



CONCESSION AGREEMENT

BETWEEN

NATIONAL HIGHWAYS AUTHORITY OF INDIA

AND

GWALIOR JHANSI EXPRESWAYS LIMITED

FOR

**DESIGN, CONSTRUCTION, DEVELOPMENT, FINANCE,
OPERATION, AND MAINTAINANCE OF KM 16.00 TO KM
96.127 ON NATIONAL HIGHWAY-75 (NH-75) IN THE STATES
OF UTTAR PRADESH AND MADHYA PRADESH**

ON

BOT (ANNUITY) BASIS

Volume I - CONCESSION AGREEMENT

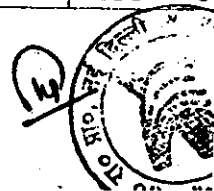
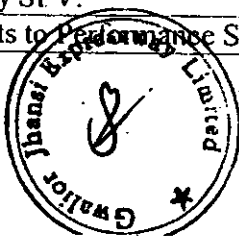
December, 2006

Concession Agreement for Design, Construction, Development, Financial Operation and Maintenance of km 16.000 to km 96.127 on National Highway 75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh on (BOT) Basis

(Package – NS1/BOT/MP-UP)

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(Package – NS1/BOT/MP-UP)

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CONCESSION AGREEMENT
(Chapter I to VIII)



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CONCESSION AGREEMENT

This Agreement is entered into on this the 7th day of December, 2006.

BETWEEN

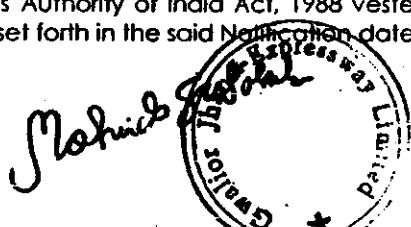
1. **NATIONAL HIGHWAYS AUTHORITY OF INDIA**, a statutory body constituted under the provisions of the National Highways Authority of India Act, 1988, and having its principal office at G-5&6, Sector-10, Dwarka, New Delhi-110075 (hereinafter referred to as "NHA" which expression shall unless repugnant to the context or meaning thereof including its administrators, successors and assigns) of One Part,

AND

2. **GWALIOR JHANSI EXPRESSWAYS LIMITED**, a company incorporated under the provisions of the Companies Act, 1956 and having its registered office at C-66, South Extension, Part - II, New Delhi - 110049 (hereinafter referred to as the "Concessionaire" or "Company" which expression shall unless repugnant to the context or meaning thereof include its successors and permitted substitutes) of the Other Part.

WHEREAS

- A. The Government of India in the Ministry of Shipping, Road Transport and Highways, earlier Ministry of Road Transport & highways, (hereinafter referred to as "MOSRTH") had authorised NHA for widening the existing 2 lane portion from Km. 16.000 to Km.96.127 covering 80.127 Km. on National Highway No.75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh to 4 lanes through a Concession under North-South Corridor (NHDP Phase - II) on Build Operate and Transfer on BOT Annuity basis and has by its Notification No. 465(E) Dated 26/04/2002 issued pursuant to Section 11 of the National Highways Authority of India Act, 1988 vested the said stretches of NH-75 in NHA as set forth in the said Notification dated 26/04/2002.



- B. NHAI had accordingly invited Proposals under a single stage process from bidders for qualification and prescribed the commercial terms and conditions for selection of a successful bidder under its Notice inviting Proposals No. NHAI/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/NS-I/2006 dated 06.02.2006 ("the Tender Notice"), inter alia, for Design, Construction, Development, Finance, Operation and Maintenance on "from Km.16.000 to Km 96.127 covering 80.127 Km. on National Highway No.75 (NH-75)" referred to in Recital 'A' above on BOT Annuity basis subject to and on the terms and conditions contained in the Tender Notice.
- C. NHAI had, pursuant thereto qualified the consortium comprising **Apollo Enterprises Limited** and **D.S. Constructions Limited** (collectively the "Consortium") with Apollo Enterprises Limited as its Lead Member for undertaking, inter alia, the work referred to in Recital 'A' above on BOT Annuity basis.
- D. After qualification of the Consortium, NHAI accepted their Bid on BOT Annuity basis and issued its Letter of Acceptance No. NHAI/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/NS-I/2006/1111 dated 31.05.2006 ("LOA") to the Consortium requiring, inter alia, the execution of this Concession Agreement and submission of Performance Security for the performance of its obligations under this Concession Agreement.
- E. The Consortium has promoted and incorporated the Concessionaire as a limited liability company and provided its Performance Security to enter into this Concession Agreement pursuant to the LOA for undertaking, inter alia, the design, engineering, financing, procurement, construction, operation and maintenance of the Project, as defined hereinafter on BOT Annuity basis as referred to in Recital 'A' and to fulfill other obligations of the Concessionaire pursuant to the LOA and has requested NHAI to accept the Concessionaire as the entity which shall undertake and fulfill and perform the obligations and exercise the rights of the Consortium under the LOA, including the obligation to enter into this Concession Agreement for the design, engineering, financing, procurement, construction, operation and maintenance of the Project on BOT Annuity basis.
- F. NHAI has agreed to the said request of the Consortium and has accordingly agreed to enter into this Concession Agreement with the Concessionaire pursuant to the LOA for, inter alia, the design, engineering, financing, procurement, construction, operation and maintenance of the said Project Section on BOT Annuity basis.
- G. It is deemed necessary and expedient to enter into this Agreement to record the terms of the said Agreement between the Parties.

NOW THEREFORE IN CONSIDERATION OF THE PREMISES AND THE MUTUAL COVENANTS HEREINAFTER CONTAINED, THE PARTIES HERETO HEREBY AGREE AND THIS AGREEMENT WITNESSETH AS FOLLOWS:

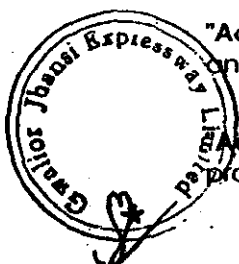
I DEFINITIONS AND INTERPRETATION

1.1 Definitions

In this Agreement, the following words and expressions shall, unless repugnant to the context or meaning thereof, have the meaning hereinafter respectively assigned to them:

"Accounting Year" means the financial year commencing from 1st April of any 31st calendar year and ending on 31st March of the next calendar year

"Additional Facilities" means the facilities which the Concessionaire may provide or procure for the benefit of the users of the Project Highway and



which are (i) in addition to the Project Facilities, and (ii) not situated on the Site.

"Additional Highway" means any additional adjoining continuous stretch of National Highway, which NHAI may, handover to the Concessionaire for Operations & Maintenance in accordance with Clause VIIIA of this Agreement.

"Agreement" means this Agreement, the Schedules 'A' through 'X' hereto, the Request for Proposal (RFP) document issued by NHAI dated 06/02/2006 and any amendments thereto made in accordance with the provisions contained in this Agreement..

"Annuity" shall have the meaning ascribed to it in Article VI.

"Annuity Payment Date" means each date specified as such in Schedule 'G', for payment of Annuity.

"Annuity Payment Period" means each period for which the Annuity is payable in accordance with the provisions of this Agreement as set out in Schedule 'G'.

"Applicable Laws" means all laws, promulgated or brought into force and effect by GOI or Government of Uttar Pradesh and Madhya Pradesh including regulations and rules made thereunder, and judgements, decrees, injunctions, writs and orders of any court of record, as may be in force and effect during the subsistence of this Agreement.

"Applicable Permits" means all clearances, permits, authorisations, consents and approvals required to be obtained or maintained under Applicable Laws in connection with the design, engineering, financing, procurement, construction, operation and maintenance of the Project Highway during the subsistence of this Agreement.

"Arbitration Act" means the Arbitration and Conciliation Act, 1996 and shall include modifications to or any re-enactment thereof as in force from time to time.

"Associates" means in relation to either Party and/or Consortium Members, a person who controls, is controlled by, or is under the common control with such Party or Consortium Member. As used in this definition, the expression "control" means with respect to a person which is a corporation, the ownership, directly or indirectly, of more than 50% of the voting shares of such person, and with respect to a person which is not a corporation, the power to direct the management and policies of such person, whether by operation of law or by contract or otherwise.

"Assured Availability" means, the availability of Carriageway assured by the Concessionaire for each Annuity Payment Period, computed as under:

$$AA = 4 \times LA$$

Where,

AA = Assured Availability

LA = Lane Availability

"Book Value" means lower of the Initial Investment or the value of the capital expenditure incurred on the Project as per the books of the Concessionaire, in either case net of depreciation charged on the basis of straight line



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method and amortised equally over the Operations Period; duly verified and certified by the Statutory Auditor in accordance with IGAAP. Provided that in the event of Termination, the Additional Cost, if any, compensated by NHAI in accordance with Articles 17.2 (c) or 17.5 shall, to the extent capitalized, be excluded in computing the Book Value.

"Bank" means a bank incorporated in India and having a minimum net worth of Rs.500 crores (Rupees five hundred crores) and having a branch in the proximity of the Project or at any other place acceptable to NHAI.

"Bid" means the documents in their entirety comprised in the bid submitted by the Bidder in response to the Tender Notice in accordance with the provisions thereof.

"Bid Security" means the security provided by the Bidder to NHAI along with the Bid in the sum of Rs 9,07,00,000/- (Rupees Nine Crore Seven Lakh Only) in accordance with the Tender Notice and which is to remain in force until substituted by the Performance Security.

"Bidder" means the Consortium referred to in Recital 'C' above.

"COD" means the commercial operations date of the Project Highway and shall be the date on which the Independent Consultant has issued the final Completion Certificate or the Provisional Certificate certifying Project

Completion of the Project Highway in accordance with Article XVI of this Agreement.

"Capacity Augmentation" means creation of additional capacity in accordance with Article 8 of this Agreement to maintain the desired level of service to the users of Project facility.

"Cashflow Projections" means cashflow projections set out in Schedule "M", submitted by the Consortium as part of its Bid for the Project which shall be used only to determine on any date the Discounted Value of Future Net Cash Flows.

"Carriageway" means the 4 lane highway comprised in the Mainline specified Schedule "D".

"Change in Law" means the occurrence of any of the following after the date of this Agreement:

- (i) the enactment of any new Indian law;
- (ii) the repeal, modification or re-enactment of any existing Indian law;
- (iii) the commencement of any Indian law which has not entered into effect until the date of this Agreement;
- (iv) a change in the interpretation or application of any Indian law by a court of record as compared to such interpretation or application by a court of record prior to the date of this Agreement; or
- (v) any change in the rates of any of the Taxes.

"Change of Scope" shall have the meaning ascribed thereto in Clause 17.1.

"Company" means the Company acting as the Concessionaire under this Agreement.

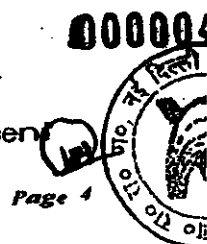
"Commencement Date" means the date 180 days from signing of the Concession Agreement.

"Completion Certificate" means the Certificate issued by the Independent Consultant pursuant to Clause 16.4.

"Concession" shall have the meaning ascribed thereto in Article III.

"Concession Fee" shall have the meaning ascribed thereto in Article VIIA.

"Concession Period" means the period beginning from the Commencement



Date and ending on the Termination Date.

"Concessionaire" means GWALIOR JHANSI EXPRESSWAYS LIMITED, a company incorporated under the provisions of the Companies Act, 1956 and having its registered office at C-66, South Extension Part II, New Delhi - 110049 and its successors and substitutes and assigns expressly approved in writing by NHAI.

"Consortium" shall have the meaning set forth in Recital 'C' above.

"Consortium Members" means as per the Bid in response to the RFP

(i) M/s. **Apollo Enterprises Limited**, a company having its office at P.O. Box 118, Salisbury House, Victoria Street, Douglas, Isle of Man (U.K.) and having 85% shares in the consortium, (ii) M/s. **D.S. Constructions Limited** having its office at C-66, South Extension Part - II, New Delhi - 110049 and having 15% share in the Consortium. M/s. APOLLO ENTERPRISES LIMITED is the Lead Member of the Consortium

"Construction Period" means the period beginning from the Appointed Date and ending on the COD.

"Construction Works or Works" means all works and things necessary to complete the Project Highway for use of the traffic and other users thereof in accordance with this Agreement.

"Contractor" means the contractor or contractors, if any, with whom the Concessionaire has entered into all or any of the Project Agreements.

"Cure Period" means the period specified in this Agreement for curing any breach or default of any provision of this Agreement by the Party responsible for such breach or default and upon failing of which the Agreement may be terminated by the other Party.

"Damages" shall have the meaning ascribed thereto in Clause 1.2(p).

"Debt Due" means the aggregate of the following sums expressed in Indian Rupees or in the currency of debt, as the case may be, outstanding and payable to the Senior Lenders under the Financing Documents:

- (i) the principal amount of the debt provided by the Senior Lenders under the Financing Documents for financing the Project (the "principal") which is outstanding as on the Termination Date but excluding any part of the principal that had fallen due for repayment one year prior to the Termination Date unless such repayment had been rescheduled with the prior consent of NHAI; and
- (ii) all accrued interest, financing fees and charges payable on or in respect of the debt referred to in sub-clause (i) above upto the date preceding the Termination Date but excluding (a) any interest, fees or charges that had fallen due one year prior to the Termination Date, and (b) penal interest or charges, payable under the Financing Documents to any Senior Lender.

"Deemed Date" of Investment means 31st December 2007

"Discounted Value of future Net Cashflows" shall have the meaning ascribed thereto in Schedule 'M'

"Debt Service Payments" means the sum of all principal and interest payments due and payable in an Accounting Year to the Senior Lenders under the Financing Documents.



"DPR" means the Detailed Project Report in respect of the Project comprised of the following provided by NHA to the bidders for the Project as part of RFP:

Volume I-Main Report
Volume II-Design Report
Volume III-Materials Report
Volume IV -Environment Management Plan
Volume V -Standards & Specifications

"Development Period" means the period from the date of this Agreement until the Commencement Date.

"Dispute" shall have the meaning set forth in Clause 39.1 (a).

"Dispute Resolution Procedure" means the procedure for Dispute resolution set forth in Article XXXIX.

"Divestment Requirements" means the obligations of the Concessionaire and NHA for and in respect of the Termination of this Agreement as set forth in Article XXXIII.

"Document" or "Documentation" means documentation printed or in written form, tapes, discs, drawings, computer programmes, writings, reports, photographs, cassettes, or expressed in any other written, audio or visual form.

"Drawings" means all the drawings, calculations and documents pertaining to the Project Highway as set forth in Schedule 'I' and shall include "as built" drawings of the Project Highway.

"EPC Contract" means contract or contracts entered into by the Concessionaire with one or more Contractors for the design, engineering, procurement of materials and equipment, construction, and completion of the Project Highway in accordance with the provisions of this Agreement.

"Emergency" means a condition or situation that is likely to endanger the security of the individuals on or about the Project Highway including users thereof or which poses an immediate threat of material damage to any of the Project Assets.

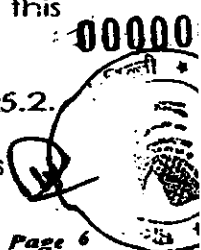
"Encumbrances" means any encumbrances such as mortgage, charge, pledge, lien, hypothecation, security interest, assignment, privilege or priority of any kind having the effect of security or other such obligations and shall include without limitation any designation of loss payees or beneficiaries or any similar arrangement under any insurance policy pertaining to the Project Highway.

"Equity Documents" means collectively the documents evidencing subscription to Concessionaire's capital to the extent of equity component of cost of the Project.

"Escrow Account" means an Account which the Concessionaire shall open and maintain with a Bank in which all inflows and outflows of cash on account of capital and revenue receipts and expenditures shall be credited and debited, as the case may be, in accordance with the provisions of this Agreement.

"Escrow Agreement" shall have the meaning ascribed thereto in Clause 25.2.

"Financial Close" means the date on which the Financing Documents



providing for funding by the Senior Lenders have become effective and the Concessionaire has immediate access to such funding under the Financing Documents.

"Financing Documents" means the documents executed by the Concessionaire in respect of financial assistance to be provided by the Senior Lenders by way of loans, guarantees, subscription to non-convertible debentures and other debt instruments including loan agreements, guarantees, notes, debentures, bonds and other debt instruments, security agreements, and other documents relating to the financing (including refinancing) of the Project and includes amendments or modifications made in accordance with Clause 9.1 (iv).

"Force Majeure" or "Force Majeure Event" shall mean an act, event, condition or occurrence specified in Article XXIX.

"GOI" means the Government of India.

"GO." means the Government of the State of Uttar Pradesh and Madhya Pradesh and Madhya Pradesh.

"Good Industry Practice" means those practices, methods, techniques, standards, skills, diligence and prudence which are generally and reasonably expected of and accepted internationally from a reasonably skilled and experienced operator engaged in the same type of undertaking as envisaged under this Agreement and acting generally in accordance with the provisions of the NH Act, and would mean good engineering practices in the design, engineering, construction and project management and which would be expected to result in the performance of its obligations by the Concessionaire and in the operation and maintenance of the Project Highway in accordance with this Agreement, Applicable Laws, Applicable Permits, reliability, safety, environment protection, economy and efficiency.

"Governmental Agency" means GOI Government of Uttar Pradesh and Madhya Pradesh and Madhya Pradesh or any ministry, department, commission, board, authority, instrumentality or agency, under the control of GOI or Government of Uttar Pradesh and Madhya Pradesh having jurisdiction over all or any part of the Project Highway or the performance of all or any of the services or obligations of the Concessionaire under or pursuant to this Agreement.

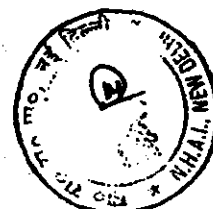
"IGAAP" means the Indian generally accepted accounting principles consistently applied.

"Indemnifying Party" means the Party obligated to indemnify the other Party pursuant to Article XXXVII.

"Independent Consultant" shall have the meaning ascribed thereto in Clause 20.1.

"Implementation period" means the period beginning from the Commencement date and ending on the COD

"Indirect Political Event" shall have the meaning ascribed thereto in Clause 29.3.



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"Internal rate of Return" shall have the meaning ascribed thereto in Schedule 'M'

"Initial Investment" shall have the meaning ascribed thereto in Schedule 'M'

"Insurance Proceeds" means the proceeds of the insurance policies taken by the Concessionaire in terms of Article XXVII or otherwise.

"Lane Availability" means in respect of each Annuity Payment Period, the availability of any lane comprised in the Carriageway measured in terms of lane kilometer hours as under:

$$LA = L \times 24 \times D$$

Where,

LA = Lane Availability L = Length of the lane

D = Actual number of days in the relevant Annuity Payment Period

"Lenders' Representative" means the person(s) duly authorised by the Senior Lenders to deal with the Parties to the Agreement with regard to the issues arising out of and contained in this Agreement. "Maintenance Manual" shall have the meaning ascribed to it in Clause 18.2.

"Maintenance Programme" shall have the meaning ascribed to it in Clause 18.3.

"Material Adverse Effect" means material adverse effect of any act or event on the ability of either Party to perform any of its obligations under and in accordance with the provisions of this Agreement

"Material Breach" means a breach by either Party of any of its obligations in this Agreement which shall be deemed to have a Material Adverse Effect on the Project and which it shall have failed to cure within the Cure Period.

"NHAI Representative" means such person or persons as may be authorised in writing by NHAI to act on its behalf under this Agreement and shall include any person or persons having authority to exercise any rights or perform and fulfill any obligations of NHAI under this Agreement.

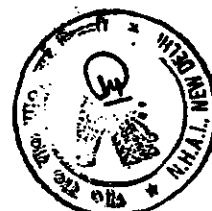
"Non Political Event" shall have the meaning ascribed thereto in Clause 29.2.

"O&M" means the operation and maintenance of the Project Highway during the Operations Period and includes but is not limited to functions of maintenance and performance of other services incidental thereto.

"O&M Contract" means the Operation and Maintenance Contract that may be entered into between the Concessionaire and the O&M Contractor for O&M of the Project Highway.

"O&M Contractor" means the person or entity with whom the Concessionaire has entered into an O&M Contract for discharging O&M functions for and on behalf of the Concessionaire.

"O&M Works" means all works necessary to keep the Project Highway in operation during the Operations Period.



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"Operations Period" means the period commencing from COD and ending on the Termination Date.

"Parties" means the parties to this Agreement collectively and "Party" shall mean any of the Parties to this Agreement individually.

"Performance Security" shall have the meaning ascribed in the RFP

"Political Event" shall have the meaning ascribed thereto in Clause 29.4.

"Preliminary Notice" shall have the meaning attributed thereto in Clause 32.1.2.

"Project" means the development, design, financing, procurement, engineering and construction, operation and maintenance of the Project Highway in accordance with the provisions of this Agreement and shall include all works relating to or in respect of the Project Highway as described in Article II.

"Project Agreements" means this Agreement, the Financing Documents, the EPC Contract, if any, the O&M Contract, if any, and any other agreements or contracts entered into by the Concessionaire with NHAI or others relating to the Project during the subsistence of this Agreement.

"Project Assets" means all physical and other assets relating to and forming part of the Project Highway including but not limited to (i) rights over the Site in the form of license, right of way or otherwise, (ii) tangible assets such as civil works including the foundation, embankments, pavements, road surface, interchanges, bridges, approaches to bridges and flyovers, road overbridges, drainage works, lighting facilities, traffic signals, sign boards, milestones, equipment relating to regulation of traffic, electrical works for lighting on the Project Highway, telephone and other communication systems and equipment for the Project, rest areas, administration and maintenance depots, relief centers, service facilities etc. (iii) Project Facilities situated on the Site (iv) the rights of the Concessionaire under the Project Agreements, (v) financial assets, such as security deposits for electricity supply, telephone etc. (vi) insurance proceeds and (vii) Applicable Permits and authorisations relating to or in respect of the Project Highway, but does not include Additional Facilities.

"Project Completion" shall have the meaning ascribed thereto in Clause 15.1.

"Project Completion Schedule" means the progressive Project milestone set forth in Schedule 'H' for the realization of the Project Highway complete in all respects by the Scheduled Project Completion Date.

"Project Facilities" means all the amenities and facilities situated on the Site, as described in Schedule 'C'.

"Project Highway" means the NH-75 stretch from km 16.000 to km 96.127 and includes widening the existing 2 lane portion from km 16.000 to km 96.127, covering 80.127 km, on National Highway No. 75 (NH- 75) in the State of Uttar Pradesh and Madhya Pradesh, to 4 lanes and shall include the Project Assets and the Project Facilities to be designed, engineered, built and improved on Site and to be operated and maintained during the Concession Period in accordance with the provisions of this Agreement.



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"Provisional Certificate" shall have the meaning ascribed to it in Clause 16.5.

"Punch List" shall have the meaning ascribed to it in Clause 16.5 and, if applicable, shall include:

- (i) plantation of avenue trees along the edge of the Row and other landscaping works within Row
- (ii) completion of work on Provision of Unlined Roadside Drains
- (iii) lining of roadside drains in identified stretches
- (iv) construction of rest areas, as approved
- (v) completion of Fencing Works of RoW
- (vi) turfing on embankment slopes in identified sections
- (vii) pointing to Stone Masonry works in identified Cross Drainage Structures
- (viii) stone Pitching at identified locations

"RBI" means the Reserve Bank of India as constituted and existing under the Reserve Bank of India Act, 1946 including any statutory modification or replacement thereof, and its successors etc.

"RFP" shall mean the Request for Proposal dated 06/02/2006 for Design, Construction, Development, Finance, Operation and Maintenance of Km.16.000 to Km.96.127 on National Highway No.75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh under North-South Corridor (NHDP Phase - II) on Build Operate and Transfer (BOT) (Annuity) Basis issued by the NHAI.

"Rs." Or "Rupees" means the lawful currency of the Republic of India.

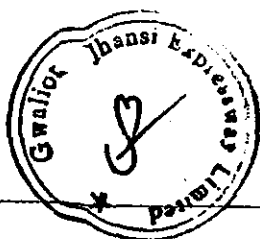
"SBI PLR" means the prime lending rate per annum for loans with 1 (one) year maturity as fixed from time to time by the State Bank of India, and in the absence of such rate, the average of the prime lending rates for loans with 1 (one) year maturity fixed by the Bank of India and the Bank of Baroda and failing that any other arrangement that substitutes such prime lending rate as mutually agreed between the Parties.

"Scheduled Project Completion Date" shall have the meaning set forth in Clause 15.3.

"Senior lenders" means the financial institutions, banks, funds and agents or trustees of debenture holders, Non-Banking Financial Companies or other major lending agencies approved by Reserve Bank of India including their successors and assignees, who have agreed to guarantee or provide finance to the Concessionaire under any of the Financing Documents for meeting costs of all or any part of the Project and who hold pari passu charge on the Concession granted by this Agreement.

"Site" means the real estate licensed by NHAI to the Concessionaire under and in accordance with this Agreement on which the Project Highway is situated.

"Specifications and Standards" means the specifications and standards relating to the quality, capacity and other requirements for the Project Highway as set forth in Schedule 'D' and any modifications thereof, or additions as included in the design and engineering for the Project Highway submitted by the Concessionaire to and expressly approved by NHAI.



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"State Support Agreement" means the agreement to be entered into between the Government of Uttar Pradesh and Madhya Pradesh, NHAI and the Concessionaire substantially in the form set forth in Schedule 'R' for provision of support, backup and services required from Government of Uttar Pradesh and Madhya Pradesh for the performance of Concessionaire's obligations under this Agreement.

"Statutory Auditors" means an independent, recognized and reputable firm of Chartered Accountants duly licensed to practice in India acting as independent statutory auditors of the Concessionaire under the provisions of the Companies Act, 1956 including any statutory modification or re-enactment or replacement thereof, for the time being in force, and appointed in accordance with Clause 28.2.

"Subordinated Debt" means any borrowings by the Concessionaire subordinated to the financial assistance provided by the Senior Lenders for meeting the Total Project Cost but does not include any interest thereon.

"Substitution Agreement" means the agreement referred to in Article XXXV and to be entered into among the Concessionaire, NHAI and the Senior Lenders in the form set forth in Schedule 'U' providing, inter alia, for the substitution of the Concessionaire by any other person subject to and in accordance with the provisions of this Agreement and the Substitution Agreement.

"Taxes" means any Indian taxes on corporate income, Sales tax, excise duties, customs duties and local taxes and any impost of like nature (whether Central, State or local) charged, levied or imposed on the goods, materials, equipment and services incorporated in and forming part of the Project Highway, on the construction, operation and maintenance thereof and on the Project Assets; but excluding any interest, penalties and other sums in relation thereto imposed on any account whatsoever.

"Termination" means the expiry or termination of this Agreement and the Concession hereunder.

"Termination Date" means the date on which this Agreement and the Concession hereunder expires pursuant to the provisions of this Agreement or is terminated by a Termination Notice.

"Termination Notice" means the communication issued in accordance with this Agreement by anyone Party to the other Party terminating this Agreement.

"Termination Payment" means the amounts payable by NHAI to the Concessionaire under this Agreement upon the Termination of this Agreement.

"Tests" mean the tests to be carried out as set forth in and in accordance with Schedule 'J' to determine the Project Completion and its certification by the Independent Consultant for commencement of commercial operation of the Project Highway.

"Total Project Cost" means the cost of the project i.e Rs.604.00 crores as mentioned in the RFP.

"Value Additions" shall have the meaning attributed to it in Clause 17.5.



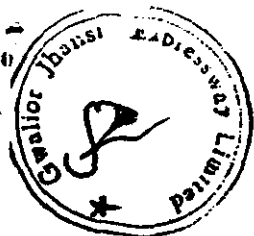
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"Vesting Certificate" shall have the meaning attributed to it in Clause 33.4.

"WPI" means the wholesale price index published by the Ministry of Industry, GOI and shall include any index, which substitutes the WPI.

1.2 In this Agreement, unless the context otherwise requires,

- (a) any reference to a statutory provision shall include such provision as is from time to time modified or re-enacted or consolidated so far as such modification or reenactment or consolidation applies or is capable of applying to any transactions entered into hereunder;
- (b) references to Indian law shall include the laws, acts, ordinances, rules, regulations, or bye laws which have the force of law in any State or Union Territory forming part of the Union of India;
- (c) the words importing singular shall include plural and vice versa, and words denoting natural persons shall include partnerships, firms, companies, corporations, joint ventures, trusts, associations, organizations or other entities (whether or not having a separate legal entity);
- (d) the headings are for convenience of reference only and shall not be used in and shall not affect the construction or interpretation of this Agreement;
- (e) terms and words beginning with capital letters and defined in this Agreement shall have the meaning ascribed thereto herein and the terms and words defined in the Schedules and used therein shall have the meaning ascribed thereto in the Schedules;
- (f) the words "include" and "including" are to be construed without limitation;
- (g) references to "construction" include, unless the context otherwise requires, investigation, design, engineering, procurement, delivery, transportation, installation, processing, fabrication, testing, commissioning and other activities incidental to the construction;
- (h) any reference to any period of time shall mean a reference to that according to Indian Standard Time;
 - (i) any reference to day shall mean a reference to a calendar day;
 - (j) any reference to month shall mean a reference to a calendar month;
- (k) the Schedules to this Agreement form an integral part of this Agreement and will be in full force and effect as though they were expressly set out in the body of this Agreement;
- (l) any reference at any time to any agreement, deed, instrument, licence or document of any description shall be construed as reference to that agreement, deed, instrument, license or other document as amended, varied, supplemented, modified or suspended at the time of such reference provided that this clause shall not operate so as to increase liabilities or obligations of NHAI hereunder or pursuant hereto in any manner whatsoever;
- (m) references to Recitals, Articles, Clauses, Sub-clauses, Paragraphs, or Schedules in this Agreement shall, except where the context otherwise requires, be deemed to be references to Recitals, Articles,



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Clauses, Sub-clauses, paragraphs, and Schedules of or to this Agreement.

- (n) any agreement, consent, approval, authorisation, notice, communication, information or report required under or pursuant to this Agreement from or by any Party or the Independent Consultant shall be valid and effectual only if it is in writing under the hands of duly authorised representative of such Party or the Independent Consultant, as the case may be, in this behalf and not otherwise;
- (o) any reference to any period commencing "from" a specified day or date and "till" or "until" a specified day or date shall include both such days or dates;
- (p) the damages payable by either Party to the other of them as set forth in this Agreement, whether on per diem basis or otherwise, are mutually agreed genuine pre-estimated loss and damage likely to be suffered and incurred by the Party entitled to receive the same and are not by way of penalty or liquidated damages (the "Damages");
and
- (q) unless otherwise expressly provided in this Agreement any Documentation required to be provided or furnished by the Concessionaire to NHAI and/or the Independent Consultant shall be provided free of cost and in three copies and if NHAI and/or the Independent Consultant are required to return any such Documentation with their comments and/or approval, they shall be entitled to retain two copies thereof.

1.3 Measurements and Arithmetic Conventions

All measurements and calculations shall be in metric system and calculations done to 2 decimal places, with the third digit of 5 or above being rounded up and below 5 being rounded down.

1.4 Priority of contract documents and errors/discrepancies

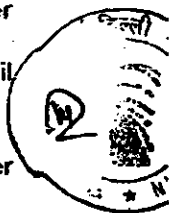
1.4.1 The several documents forming this Agreement are to be taken as mutually explanatory to one another and, unless otherwise expressly provided elsewhere in this Agreement, the priority of the following documents shall in the event of any conflict between them be in the order they are set out:

- (i) this Agreement
- (ii) all other documents forming part of this Agreement

i.e. document at (i) above shall prevail over the documents at (ii) above.

1.4.2 In case of ambiguities or discrepancies within this Agreement the following shall apply:

- (i) between two Clauses of this Agreement, the provisions of the specific clause relevant to the issue under consideration shall prevail over those in other Clauses;
- (ii) Between the Clauses and the Schedules, the Clauses shall prevail save as otherwise expressly set forth in Clause 1.4.1;
- (iii) Between DPR issued along with RFP and the Schedules, the latter shall prevail;
- (iv) Between the written description on the Drawings and the Specifications and Standards, the latter shall prevail;



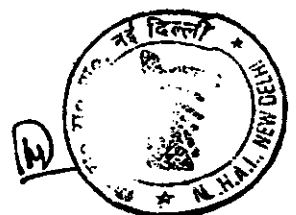
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- (v) Between the dimension scaled from the Drawing and its specific written dimension, the latter shall prevail;
- (vi) Between any value written in numerals and that in words, the latter shall prevail.

II SCOPE OF PROJECT

- 2.1 The Project shall be executed on the Site, which is described in Schedule 'A' of this Agreement. The scope of the Project shall include performance and execution by the Concessionaire of all design, engineering, financing, procurement, construction, completion, operation and maintenance of the Project Highway as described in Schedule 'B' and Schedule 'C' of this Agreement. It shall include (brief description of the project) in accordance with the Specifications and Standards set forth in Schedule 'D' and operation and maintenance thereof in accordance with Schedule 'L'. It shall also include the performance and fulfillment of other obligations by the Concessionaire under this Agreement.

The Concessionaire shall undertake its obligations at its own cost and risk.



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CHAPTER -II

GRANT OF CONCESSION

III. GRANT OF CONCESSION

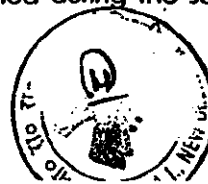
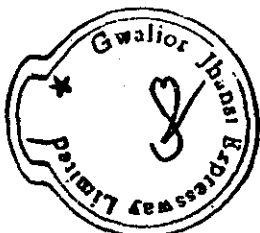
- 3.1 Subject to and in accordance with the terms and conditions set forth in this Agreement, NHAI hereby grants to the Concessionaire and the Concessionaire hereby accepts the Concession for a period of 20 (twenty) years commencing from the Commencement Date, including the exclusive right, license and authority during the subsistence of this Agreement to implement the Project and the Concession in respect of the Project Highway.
- 3.2 Subject to and in accordance with the terms and conditions set forth in this Agreement, the Concession hereby granted shall entitle the Concessionaire to enjoy, and oblige the Concessionaire to undertake the following in accordance with the provisions of this Agreement, the Applicable Laws and the Applicable Permits:
- (i) to develop, design, engineer, finance, procure, construct, operate and maintain the Project Highway during the Concession Period;
 - (ii) upon completion of the Project Highway and during the Operations Period to manage, operate & maintain the Project Highway and regulate the use thereof by third parties;
 - (iii) to allow NHAI to levy, demand, collect and appropriate the Fees from vehicles and persons liable to payment of Fees for using the Project Highway or any part thereof as per Article VII;
 - (iv) perform and fulfill all of the Concessionaire's obligations under this Agreement;
 - (v) bear and pay all expenses, costs and charges incurred in the fulfillment of all the Concessionaire's obligations under this Agreement; and
 - (vi) not assign or create any lien or Encumbrance on the Concession hereby granted on the whole or any part of the Project Highway nor transfer, lease or part possession therewith save and except as expressly permitted by this Agreement or the Substitution Agreement.
- 3.3 The Concession Period shall commence on the Commencement Date and shall end on the Termination Date.

IV. CONDITIONS PRECEDENT

4.1 Conditions Precedent

Save and except as provided in Articles IV, V and XXII, the rights and obligations of the Concessionaire under this Agreement are subject to the satisfaction in full of the following conditions precedent to be fulfilled on or before Financial Close unless any such condition has been waived as provided in Clause 4.2:

- (a) Concessionaire shall have obtained all such Applicable Permits as listed in Schedule 'E' unconditionally or if subject to conditions then all such conditions have been satisfied in full and such Applicable Permits are and shall be kept in full force and effect for the relevant period during the subsistence of this Agreement;



(b) the Concessionaire shall have been granted way leaves required in connection with the Project including:

- (i) existing rights of way for the alignment of the Project Highway free from all Encumbrances;
- (ii) rights of way from public roads to the Site; and
- (iii) permission / licence to enter upon and utilise the Site for the construction pursuant to and in accordance with this Agreement.

(c) The Concessionaire shall have obtained all Central Government clearances and permits under the applicable laws relating to environmental protection and conservation from the Ministry of Environment and Forest.

(d) Deleted

(e) certified true copies of all Project Agreements, in particular, the Financing Documents, the EPC Contract, O&M Contract, if any, as well as the shareholders funding agreement have been delivered by the Concessionaire to NHAI;

(f) the Performance Security in full has been provided by the Concessionaire to NHAI in accordance with the RFP and the same is in full force and effect;

(g) all of the representations and warranties of the Concessionaire set forth in Article XI are true and correct as on date of this Agreement and as on the Commencement Date;

(h) NHAI shall have received from the Concessionaire copies (certified as true copies by an authorised officer of the Concessionaire) of the constitutional documents of the Concessionaire;

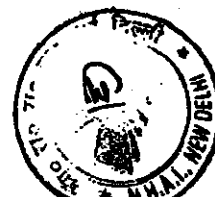
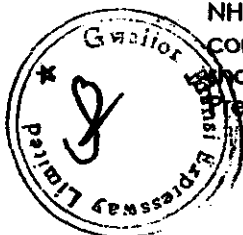
(i) NHAI shall have received copies (certified as true copies by a Director of the Concessionaire) of all resolutions adopted by the Board of Directors of the Concessionaire authorising the execution, delivery and performance by the Concessionaire of this Agreement and each of the Project Agreements;

(j) NHAI shall have received from the Indian legal counsel of the Concessionaire a legal opinion with respect to the authority of the Concessionaire to enter into this Agreement and the Project Agreements and the Financing Documents and the enforceability of the provisions thereof; and

4.2 Any of the conditions precedent set forth in Clause 4.1, save and except condition of Sub clause (b) and (c) thereof, may be waived fully or partially by NHAI at anytime in its sole discretion.

4.3 Obligation to Satisfy the Conditions Precedent.

The Concessionaire shall make all reasonable endeavors to procure the satisfaction in full of the Conditions Precedent set out in Clause 4.1 above and NHAI shall make all reasonable endeavor to procure fulfillment of the conditions set forth in Sub-clauses (b), (c) and (d) of Clause 4.1. Each Party shall bear its respective cost and expense of satisfying such Condition Precedent unless otherwise expressly provided.



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- 4.4 If the Conditions Precedent set forth in Clause 4.1 have not been satisfied on or before the Financial Close and the NHAI has not waived, fully or partially, such conditions under Clause 4.1, NHAI may, notwithstanding anything to the contrary contained in this Agreement, terminate this Agreement in accordance with provisions of Clause 32.2 without being liable in any manner whatsoever to the Concessionaire and forfeit the Bid Security and/or the Performance Security by way of Damages, provided that where NHAI does not fulfill its obligations under Clause 4.3 and terminates this Agreement under this Clause 4.4, it shall refund the Performance Security.

V. PERFORMANCE SECURITY

- 5.1 The Concessionaire, for due and faithful performance of its obligations during the construction period has provided to NHAI Bank Guarantee No. 0007BG00128406, 0007BG00128506 and 0007BG00128606 dated 03rd August 2006 and their amendments dated 04th November 2006 and 29th November 2006 for Rs 9.50 Crores (INR Nine Crores and Fifty Lakhs only) valid upto 01st October, 2007, Rs. 2.58 Crores (INR Two Crores and Fifty Eight Lakhs only) valid upto 01st October, 2007 and Rs. 18.12 Crores (INR Eighteen Crores and Twelve Lakhs only) valid upto 01st April 2010 respectively for a total amount of Rs. 30.20 Crores (INR Thirty Crores and Twenty Lakhs only) being 5% of the Total Project Cost, from ICICI Bank Limited, A-9, Phelps Building, Connaught Place, New Delhi - 110 001, the Performance Security shall be reduced to Rs. 18.12 Crores (INR Eight Crores and Twelve Lakhs only) being 3% of the Total Project Cost after achievement of the Financial Close by the Concessionaire. The Performance Security shall be released by NHAI to the Concessionaire upon issuance of the Completion Certificate by the Independent Consultant.
- 5.2 In the event of the Concessionaire being in default in the due and faithful performance of its obligations under this Agreement and failing to remedy such default within the Cure Period, the NHAI shall without prejudice to its other rights and remedies hereunder be entitled to encash and appropriate the Performance Security as Damages for such default. Upon such encashment and appropriation of the Performance Security, NHAI shall grant a period of 15 (fifteen) days to the Concessionaire to provide fresh Performance Security and the Concessionaire shall within the time so granted furnish to NHAI such Performance Security failing which NHAI shall be entitled to Terminate this Agreement under clause 32.2. The provision set forth in Clause 5.2 and this Clause 5.3 shall apply mutatis-mutandis to such fresh Performance Security.
- 5.3 Notwithstanding anything to the contrary contained in clause 5.3, upon furnishing of fresh Performance Security in accordance with clause 5.2, the Concessionaire shall be granted an additional period of 60 (Sixty) days as Cure Period for remedying the defaults and complying with his obligations under this Agreement. In the event of the Concessionaire continuing to be in breach of the provisions of this Agreement after such Cure Period, NHAI shall be entitled to terminate this Agreement under the provisions of Clause 32.2.

VI. ANNUITY

Subject to the provisions of this Agreement and in consideration of the Concessionaire accepting the Concession and undertaking to perform and discharge its obligations in accordance with the terms, conditions and covenants set forth in this Agreement, NHAI agrees and undertakes to pay to the Concessionaire, on each Annuity Payment Date, the sum of Rs. 52.29 Crores (the Annuity).



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6.1 Payment of Annuity

- (a) Subject to the provisions of Article 6 and any other applicable provisions of this Agreement, NHAI shall make Payment of Annuity to the Concessionaire on each Annuity Payment Date.
- (b) NHAI shall as security for payment of Annuity, provide to the Concessionaire a Letter of Credit from a Scheduled Bank in India for a sum equal to Rs. 52.29 Crores (one annuity payment amount). Such Letter of Credit shall be established within 30 days from the expected date of COD as intimated by the Concessionaire.

6.2 Bonus/Reduction in Annuity

- a) The Concessionaire shall either receive bonus for early completion of the Project (the Bonus) or incur reduction in the Annuity for delayed completion of the Project (the Reduction) as the case may be.
- b) For the purpose of this Article 6.2, each Annuity Payment Period shall be deemed to be a period of 180 calendar days.
- c) The Bonus or Reduction as the case may be shall be computed as under:

(i) If COD is achieved prior to first Annuity Payment Date:

$$B \text{ or } R = \{ (\text{SPCD}-\text{COD}) \cdot X \} \cdot A / 180$$

(ii) If COD is achieved between two Annuity Payment Dates

$$B \text{ or } R = \{ (\text{PAPD}-\text{COD}) + X \} \cdot A / 180$$

Where,

A = Annuity,

B = Bonus,

PAPD = Previous Annuity Payment Date.

R = Reduction

SPCD = Scheduled Project Completion Date (shall be the date as decided at the time of entering the concession agreement),

X = As determined by the Independent Consultant, the aggregate number of days of delay caused by:

(i) delay in delivery of the Project Site or any part thereof, as per Schedule 'H', by NHAI.

(ii) suspension of Construction Works or part thereof by NHAI or the Independent Consultant, for reasons not attributable to the Concessionaire,

(iii) Change of Scope Order pursuant to Article 17,

(iv) stoppage of the Construction Works or part thereof on account of the Concessionaire allowing access and use of Project Site for public purposes pursuant to Article 38.2.

(v) Force Majeure Event which is a Political Event or Indirect Political Event,

(vi) NHAI Event of Default.

- d) If the resultant figure arrived at pursuant to computation made in accordance with the preceding sub-article is positive, the same shall be the amount of Bonus payable to the Concessionaire and if negative, the same shall be the amount of Reduction. However, the amount of bonus payable shall not exceed one-annuity payment.

The Bonus shall be paid or Reduction shall be effected on the first Annuity Payment Date occurring after COD.



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- f) Notwithstanding anything inconsistent contained anywhere in this Agreement, NHAI's obligation to pay Annuity shall arise subject to and only upon occurrence of COD.

6.3 Assured Availability

- (a) If due to Concessionaire's failure to perform/discharge its obligations under this Agreement, the actual availability of the Carriageway during any Annuity Payment Period was less than the Assured Availability, the Concessionaire's right to receive Annuity shall proportionately abate. The difference between the Assured Availability and the actual availability of the Carriageway is hereafter referred to as Non Availability.

Provided that:

- (i) to the extent that the Non Availability is due to Political Events and/or events set out in Clause 18.15 the same shall not constitute Non Availability, and
- (ii) to the extent that the Non Availability is due to Indirect Political Events, one fourth thereof shall only constitute Non Availability.
- (b) Subject to the proviso to preceding sub-article(a), the Carriageway or part thereof shall be deemed to be unavailable if:
- (i) the same is closed for traffic otherwise than in accordance with the O & M Requirements as per Schedule 'L',
- (ii) irrespective of whether the same is closed for traffic or not, if the Independent Consultant has determined that,
- a) the riding quality thereof has deteriorated to a level which is below the acceptable level prescribed by the O & M Requirements as per Schedule 'L'; and
- b) the same is not, in the opinion of the Independent Consultant, safe for operations.
- (c) The Non-Availability shall be measured in terms of the sum total of lane kilometer hours for which the Carriageway or part thereof as the case may be was unavailable.
- (d) The length of a lane that was unavailable for the use of the traffic, shall be the actual length of the affected stretch of that lane as determined by the Independent Consultant plus 1 km (500mtrs on either side of the affected stretch).
- (e) If in respect of any Annuity Payment Period, the Independent Consultant has reported Non Availability or Non-Availability has otherwise been established, the Annuity payable for the immediately succeeding Annuity Payment Period shall be adjusted for such Non Availability (the Adjusted Annuity) as under and paid.

Adjusted Annuity = (AA - N) * A/AA

Where,

AA = Assured Availability

A = Annuity

$$N = \sum_{i=1}^n 1 \times L_i \times h_i$$

Where,

N = Non Availability during the previous Annuity Payment Period (in lane kilometer hours)

n = total number of days of non-availability



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L_i = length of non-available portion of the lane on each day (in kms) and

h_i = number of hours of non availability, on each day.

Provided that if $L_i \times h_i$ is less than four lane kilometer hour in a given day, the same shall be ignored.

Provided that if the Non Availability relates to the last of the Annuity Payment Periods, the Annuity payable for that Annuity Payment Period shall be adjusted as above and paid. In such an event, the Annuity may be paid on or before the 15 day after the relevant Annuity Payment Date.

- (f) Adjustment of Annuity on account of Non Availability in accordance with this Article 6.3 shall be without prejudice to any other right/remedy available to NHAI on account of breach of its obligations by the Concessionaire and that NHAI shall be entitled to treat frequent occurrences of Non-Availability or continued Non-Availability (beyond a reasonable time having regard to Good Industry Practice) as persistent breach of O&M Requirements within the meaning of Article 18.16

6.4 Payment Mechanism

a) **Submission of Invoice**

The Concessionaire shall at least one month prior to the relevant Annuity Payment Date submit to the Independent Consultant, its invoice (addressed to NHAI) for payment of Annuity duly adjusted for Non-availability, if any, in accordance with the preceding Article 6.3. The Independent Consultant shall after verification and certification of the amount claimed in the invoice forward the invoice to NHAI with necessary recommendation for payment thereof so as to reach NHAI atleast one week prior to the relevant Annuity Payment Date.

b) **Payment of Annuity**

Upon receipt of the invoice together with recommendation for payment forwarded by the Independent Consultant, NHAI shall take all necessary steps and ensure payment of Annuity on the relevant Annuity Payment Date. The mode of payment of Annuity shall be as provided in Article 23.

For avoidance of doubt, the Parties agree that notwithstanding any dispute which either of them may have as to the amount of invoice/Annuity certified and recommended for payment by the Independent Consultant; the Annuity payable on the relevant Annuity Payment Date shall be that certified by the Independent Consultant. Provided such payment shall be without prejudice to a final adjustment according to the terms on which such dispute is resolved whether amicably or through arbitration in accordance with the provisions of Article 39.

VII LEVY AND COLLECTION OF FEE

7.1 Concessionaire's obligations

- (a) The Concessionaire shall not levy, demand or collect from or in respect of any vehicle or Person, for the use of Project Facilities, any sum whatsoever in the nature of a toll or fee.
- (b) The Concessionaire shall not permit or allow any advertisement/hoarding or other commercial activity and shall not be



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entitled to charge, collect or receive any sums on account of any such activity. For avoidance of doubt, the Concessionaire agrees that unless otherwise provided in this Agreement, the Project revenue shall consist of Annuity only.

7.2 NHAI's Rights

(a) Levy and Collection of Fee

- (i) Notwithstanding anything inconsistent contained in this Agreement, NHAI shall have the authority to levy toll or fee on the vehicles using the Project Facilities (the Fee) and to demand, collect, retain and appropriate the Fee in accordance with the Applicable Laws.
- (ii) NHAI may at its sole discretion levy, demand, collect, retain and appropriate the Fee either by itself or authorise any Person by contract or otherwise to levy, demand, collect, retain and appropriate the same (the "Authorized Person") as NHAI may deem fit in its sole discretion and in accordance with the Applicable Laws.
- (iii) Any arrangement or contract made or entered into by NHAI for levy and collection of Fee shall be independent of this Agreement and that no such arrangement or contract shall have the effect of adding to or enlarging in any way the obligations or the scope thereof or the liability of the Concessionaire under this Agreement and that the Concessionaire's obligations and liabilities shall be and limited to, those contained in this Agreement only.
- (iv) NHAI / the Authorised Person shall have access to and use of the Project Site for all purposes necessary or incidental to levy and collection of the Fee.

Provided, that to the extent such access and use allowed by the Concessionaire affects the performance of any of its obligations hereunder, the Concessionaire shall not be deemed or construed to be in breach of its obligations nor shall it incur/suffer any liability on account thereof.

Provided further, that NHAI shall, in the event of any physical damage to the Project Facilities on account of such access or use, ensure that such damage is promptly repaired and the Project Facilities are restored at its cost and expenses.

(b) Advertisement/Hoarding etc.

This shall be governed by Applicable Laws, rules, regulations, guidelines and instructions of GOL NHAI and Government Agency.

VIIA CONCESSION FEE

7A.1 In consideration of the grant of Concession under this Agreement, the Concession Fee payable by the Concessionaire to the NHAI shall be Re. 1.00 (Rupee One) per year during the term of this Agreement.

7A.2 The Concession Fee shall be paid in advance within 90 (ninety) days of the commencement of the year, for which it is due and payable.

CAPACITY AUGMENTATION

Notwithstanding anything contained anywhere in this Concession Agreement contrary to the provisions here below, the following are prescribed.

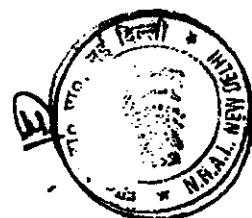


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- 8.1 The NHAI may, following a detailed traffic study conducted by it, at any time after the COD decide to augment/increase the capacity of the Project (capacity Augmentation) with a view to provide the desired level of service to the users of the Project Facility.
- 8.2 ~~The NHAI shall invite proposals from eligible Persons for Capacity Augmentation. The Concessionaire shall have option to submit its proposal for Capacity Augmentation.~~
- 8.3 The Bid document for Capacity Augmentation shall specify a Termination payment to be made to the Concessionaire in case the Concessionaire chooses not to submit its proposal or fails or declines to match the preferred offer as mentioned in Clause 8.5 below.
- 8.4 In case the Concessionaire after participating in the bidding procedure, fails to give the lowest offer, the Concessionaire shall be given the first right of refusal to match the preferred offer. If the Concessionaire matches the preferred offer, the Parties shall enter into a suitable agreement supplemental to this Agreement to give effect to the changes in scope of the Project, Concession Period and all other necessary and consequential changes. In such an event the Concessionaire shall pay to the bidder who had made the lowest offer sum of Rs. 10 lakhs (Ten Lakhs) towards bidding costs incurred by such bidder.
- 8.5 In case the Concessionaire (i) chooses not to submit its proposal for Capacity Augmentation or (ii) is not the preferred bidder and also fails or declines to match the preferred offer, NHAI shall be entitled to terminate this Agreement upon payment to the Concessionaire of the Termination Payment.
- 8.6 The Termination payment referred to in the preceding clauses 8.3 & 8.5 above shall be the amount equivalent to the Discounted Value of the Future NetCashflows.

ADDITIONAL HIGHWAY - Deleted

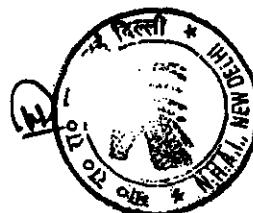


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CHAPTER - III
OBLIGATIONS AND UNDERTAKINGS

IX.

- 9.1 The Concessionaire shall at its own cost and expense observe, undertake, comply with and perform, in addition to and not in derogation of its obligations elsewhere set out in this Agreement, the following:
- (i) make, or cause to be made, necessary applications to the relevant Governmental Agencies with such particulars and details, as may be necessary for obtaining all Applicable Permits, and obtain such Applicable Permits in conformity with the Applicable Laws;
 - (ii) notify to NHAI forthwith the occurrence of Financial Close;
 - (iii) Submit to NHAI certified true copies of each of the Project Agreements within 7 (seven) days of their execution;
 - (iv) not make any replacement, amendment or modifications to any of the Project Agreements without the prior written consent of NHAI, where such replacement, amendment or modification has or may have the effect of increasing or imposing any financial liability or obligation on NHAI in any manner, and where such amendment or modification is made without such consent, not to enforce such amendment or modification nor permit enforcement thereof against NHAI in any manner whatsoever;
 - (v) give NHAI not less than 30 (thirty) days written notice prior to entering into, amending or replacing any Project Agreement so as to enable NHAI to provide its consent or offer its comments, if any thereon which, if made, shall be duly considered and given effect to by the Concessionaire before entering into, amending or replacing such Project Agreement;
 - (vi) remove promptly from the Project Highway all surplus construction machinery and materials, waste materials (including, without limitation, hazardous materials and waste water), rubbish and other debris (including without limitation accident debris) and shall keep the Site in a neat and clean condition and in conformity with the Applicable Laws and Applicable Permits;
 - (vii) procure, as required, the appropriate proprietary rights, licenses, agreements and permissions for materials, methods, processes and systems used or incorporated into the Project Highway;
 - (viii) provide all assistance to the independent Consultant as it may require for the performance of its duties and services;
 - (ix) provide to NHAI reports on regular basis during the Construction Period and the Operations Period in the form and manner set forth in this Agreement and Schedule 'X';
 - (x) obtain and maintain in force on and from the Commencement Date all insurance in accordance with the provisions of this Agreement and Good Industry Practice;
 - (xi) acquire such real estate, as the Concessionaire may deem appropriate for the Additional Facilities and to indemnify and save harmless and defend GOI, NHAI, and Government of Uttar Pradesh and Madhya Pradesh from and against all proceedings, claims, demands, costs, expenses, losses and damages arising out of or relating to the securing of rights to use such real estate by the Concessionaire or any person claiming through or under the Concessionaire;



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- (xii) undertake Debt Service Payments in accordance with the Financing Documents;
- (xiii) to allow NHAI to levy, demand, collect and appropriate the Fees from vehicles and persons liable to payment of Fees for using the Project Highway or any part thereof as per Article VII;
- (xiv) ensure and procure that each Project Agreement contains provisions that entitle NHAI to step into such agreement in its discretion in place and substitution of the Concessionaire in the event of Termination of this Agreement on account of default or breach by the Concessionaire;
- (xv) appoint, supervise, monitor and control the activities of Contractors under their respective Project Agreements as may be necessary;
- (xvi) make reasonable efforts to maintain harmony and good industrial relations among the personnel employed in connection with the performance of the Concessionaire's obligations under this Agreement;
- (xvii) comply with all Applicable Permits and Applicable Laws in the performance of the Concessionaire's obligations under this Agreement including those being performed by any of the Contractors;
- (xviii) develop, implement and administer a surveillance and safety program for the Project Highway, the users thereof, and the Contractors personnel engaged in the provision of any services under any of the Project Agreements including correction of safety violations and deficiencies and taking of all other actions necessary to provide a safe environment in accordance with Schedule 'S', Applicable Laws and Good Industry Practice;
- (xix) take all reasonable precautions for the prevention of accidents on or about the Project Highway and provide all reasonable assistance and emergency medical aid to accident victims;
- (xx) not to place or create and nor permit any Contractor or other person claiming through or under the Concessionaire to create or place any Encumbrance or security interest over all or any part of Site or the Project Assets, or on any rights of the Concessionaire therein or under this Agreement, save and except as expressly set forth in this Agreement;
- (xxi) make its own arrangements for quarrying, and observe and fulfill the environmental and other requirements under the Applicable Laws and Applicable Permits at Concessionaire's own cost and expense;
- (xxii) be responsible for safety, soundness and durability of the Project Highway including other structures forming part thereof and their compliance with the Specifications and Standards;
- (xxiii) not claim or demand possession or control of any roads, structures or real estate which do not form part of the Project Highway;
- (xxiv) after receiving possession of the site or part thereof, ensure that such site remains free from all encroachments and take all steps necessary to remove encroachments, if any
- (xxv) make payment to Police department or any Government Agency, if required, for provision of such services as are not provided in the normal course or are available on payment;



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(xxvi) indemnify the NHAI against all actions, suits, claims, demands and proceedings and any loss or damage or cost or expense that may be suffered by them on account of anything done or omitted to be done by the Concessionaire in connection with the performance of its obligations under this Agreement;

(xxvii) comply with the Divestment Requirements and hand over the Project Highway to NHAI upon Termination of the Agreement.

(xxviii) work in optimizing the use of existing Right of Way handed over to them.

✓ (xxix) make all necessary arrangements for accomplishing the tasks of physical removal of the encroachments at his own cost.

(xxx) obtain all the necessary environmental clearances, cut the trees and carry out compensatory afforestation, as per the applicable state laws, at his own cost excluding clearances pertaining to the Project Highway passing through protected forest or sanctuary or other similar features.

✓ (xxxi) carry out shifting of utility services.

(xxxii) obtain all necessary clearances/permits, except General Arrangement Drawings (GADs), from Railways in respect of construction of ROB/RUB and carry out all necessary tasks to accomplish construction of ROB/RUB at its own cost.

(xxxiii) liaise with Government of Uttar Pradesh and Madhya Pradesh for implementation of the Rehabilitation and Resettlement plan; and

(xxxiv) to keep in full force and effect the Performance Security deposited pursuant to the RFP in accordance with the provisions of this Agreement.

✓ (xxxv) shall assist NHAI / Government Agency in performing functions under Control of National Highways (Land & Traffic) Act, 2002 to the extent directed by NHAI / Government Agency. Provided, however, the obligations, functions and all such acts already covered under this Agreement shall be governed by this Agreement

(xxxvi) enter into the State Support Agreement with NHAI and the Government of Uttar Pradesh and Madhya Pradesh.

9.2 Subject to the terms and conditions of this Agreement the Concessionaire shall at its cost and expense:

(i) undertake the design, engineering, procurement and construction and financing of the Project Highway in accordance with this Agreement;

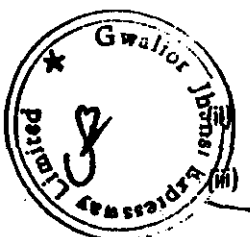
(ii) operate and maintain the Project Highway at all times in conformity with this Agreement including but not limited to the Specifications and Standards set forth in Schedule 'D'. Schedule 'L'. the Maintenance Program and Good Industry Practice.

9.3 The Concessionaire shall, before commencement of construction of the Project Highway:

(i) submit to NHAI with due regard to Project Completion Schedule as set forth in Schedule 'H' and Scheduled Project Completion Date, its design, engineering and construction time schedule and shall formulate and provide CPM/PERT charts for the completion of the said activities;

Finalize the design and detailed engineering basis;

have requisite organization and designate and appoint a Project



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manager and such other managers, officers and representatives as it may deem appropriate to supervise the Project and to deal with the NHAI Representative and be responsible for all necessary exchanges of information required pursuant to this Agreement; and

- (iv) undertake, do and perform such acts, deeds and things as may be necessary or required for construction and Project completion under and in accordance with this Agreement.

9.4 In respect of the Concessionaire's obligations with respect to the Drawings of the Project Highway as set forth in Schedule 'I', the following shall apply:

- (i) The Concessionaire shall prepare and submit with reasonable promptness and in such sequence as is consistent with the Project Completion Schedule, three copies each of all Drawings to NHAI and the Independent Consultant for review and comments.

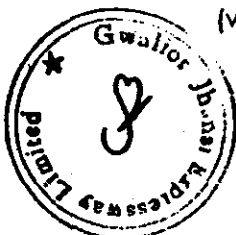
- (ii) By forwarding the Drawings for review and comment to NHAI, the Concessionaire represents that it has determined and verified that the design and engineering including field construction criteria related thereto is in conformity with the Specifications, Standards and quality set forth in this Agreement for and in respect of the Project Highway.

- (iii) Within 30 (thirty) days of the receipt of the Drawings, NHAI shall review the same and convey its comments/observations to the Concessionaire with particular reference to the conformity or otherwise with the Specifications and Standards set forth in this Agreement. It is expressly agreed that notwithstanding any review and comment/observations of NHAI on any Drawings or failure of NHAI to provide comments/ observations thereon, NHAI shall not be liable for the same in any manner whatsoever and the Concessionaire shall remain solely responsible for and shall not be relieved or absolved in any manner whatsoever of its obligations, duties and liabilities as set forth in this Agreement. The Concessionaire shall not be obliged to await the comments/observations of NHAI on the Drawings submitted pursuant hereto beyond the period set forth hereinabove.

- (iv) If the comments/observations of NHAI indicate that the Drawings are not in conformity with the Specifications and Standards set forth in this Agreement, such Drawings shall be revised by the Concessionaire to the extent necessary and resubmitted to NHAI for review, observations and comments. NHAI shall give its observations and comments, if any, within 15 (fifteen) days of the receipt of such revised Drawings provided, however, that any observations or comments of NHAI or failure of NHAI to give any observations or comments on such revised drawings shall not relieve or absolve the Concessionaire of its obligation to conform to such Specifications and Standards.

- (v) The Concessionaire shall be responsible for delays in Project Completion Schedule caused by reasons of any Drawings not being in conformity with the Specifications and Standards, and the Concession Period shall not be extended in any manner whatsoever on account of submission or revision of any Drawings.

- (vi) Within 90 (ninety) days of the COD, the Concessionaire shall furnish NHAI with "as built" Drawings reflecting the Project Highway as actually designed, engineered and constructed, including without limitation on "as built" survey illustrating the layout of the Project Highway and setback lines, if any, of the buildings and structures



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forming part of Project Facilities:

9.5 The Concessionaire shall submit to NHAI the drafts of the Project Agreements including in particular the EPC Contract, the Financing Documents and the O&M Contract for its review. NHAI shall have the right but not the obligation to provide its comments and observations, if any, in respect of the Project Agreements within 30 (thirty) days of the receipt thereof by NHAI and the Concessionaire shall consider all such comments/observations. Any such comments/observations by NHAI on any Project Agreements or the failure to provide such comments shall not relieve or absolve in any manner whatsoever the Concessionaire of its obligations, duties and liabilities under this Agreement nor shall it make NHAI and/or Independent Consultant liable to the Concessionaire in any manner whatsoever and shall be without prejudice to the rights of NHAI hereunder.

9.6 During the Construction Period, the Concessionaire shall be responsible for maintaining the Site including the existing two lanes of the Project Highway as also the existing section of the National Highway which is proposed to be bypassed as part of the Project Highway, at its own cost and expense. During this period, the Concessionaire shall modify, repair or otherwise make improvements to the existing two lanes before expiry of six months from the Commencement Date so that the existing two lanes comply with requirements provided in Schedule 'L' and at least 2 (two) lanes of the Project Highway are ordinarily open to traffic at all times. The Concessionaire shall promptly undertake all such repairs and maintenance works as may be necessary to keep the Project Highway traffic-worthy and safe during the Construction Period.

9.7 The Concessionaire shall, at all times, afford access to the Site to the authorised representatives of NHA, Senior Lenders, and the Independent Consultant and to the persons duly authorised by any Governmental Agency having jurisdiction over the Project, including those concerned with safety, security or environmental protection to inspect the Project Highway and to investigate any matter within their authority and upon reasonable notice, the Concessionaire shall provide to such persons reasonable assistance necessary to carry out their respective duties and functions with minimum disruption to the construction, operation and maintenance of the Project Highway consistent with the purpose for which such persons have gained such access to the Site.

X OBLIGATIONS OF NHAI

10.1 NHAI agrees to observe, comply and perform the following:

- (i) enable access to the Site, free from Encumbrances, in accordance with this Agreement
- (ii) permit peaceful use of the Site by the Concessionaire as licensee under and in accordance with the provisions of this Agreement without any let or hindrance from NHAI or persons claiming through or under it;
- (iii) assist and provide all reasonable support to the Concessionaire in obtaining Applicable Permits;
- (iv) upon written request from the Concessionaire, assist the Concessionaire in obtaining access to all necessary infrastructure facilities and utilities, including water, electricity and telecommunication facilities at rates and on terms no less favourable to the Concessionaire than those generally available to commercial Customers receiving substantially equivalent services;

Make reasonable endeavors in not allowing erection or placement of



barriers by Government of Uttar Pradesh and Madhya Pradesh or any Governmental Agency on the Project Highway except on account of any law and order situation or upon national security considerations;

- (vi) ~~enter into the State Support Agreement with the Concessionaire and the Government of Uttar Pradesh and Madhya Pradesh.~~
- (vii) assist the Concessionaire in obtaining necessary assistance to regulate traffic on the Project Highway subject to and in accordance with the Applicable Laws;
- (viii) assist the Concessionaire in obtaining Police assistance from Government of Uttar Pradesh and Madhya Pradesh against payment of prescribed costs and charges, if any, for traffic regulation, patrolling and provision of security on the Project Highway;
- (ix) operate and maintain the Project Highway during the Development Period, at its own cost and expense, in a manner that the level of service is at no time inferior to the level prevailing on the date when bids were received for this Concession; and
- (x) Observe and comply with its obligations set forth in this Agreement. ~~take all necessary steps towards accomplishment of acquisition of additional land and its handing over to the Concessionaire as per Clause 13.5. NHAI shall bear the cost of additional land~~
- (xi) ~~coordinate with Government of Uttar Pradesh and Madhya Pradesh authorities for completing the legal requirements and maintaining law and order during removal of encroachments by the Concessionaire.~~
- (xii) ~~provide necessary support to the Concessionaire in obtaining necessary clearances/permissions/permits in respect of environmental clearances, tree cutting, compensatory afforestation, shifting of all types of utility services, construction of ROB/RUB on Railway lines and rehabilitation and resettlement.~~
- (xiv) bear all expenses as per the demand note raised by the concerned government or other concerned agencies in respect of shifting of all types of utility services and rehabilitation and resettlement. Obtain approvals from Railways for General Arrangement Drawings (GADs) for construction of ROB/RUB on Railway lines.

XI. REPRESENTATIONS AND WARRANTIES

11.1 Representations and Warranties of the Concessionaire

The Concessionaire represents and warrants to NHAI that:

- (i) It is duly organized, validly existing and in good standing under the laws of the jurisdiction of its incorporation;
- (ii) It has full power and authority to execute, deliver and perform its obligations under this Agreement and to carry out the transactions contemplated hereby;
- (iii) It has taken all necessary corporate and other action under Applicable Laws and its constitutional documents to authorize the execution, delivery and performance of this Agreement;
- (iv) It has the financial standing and capacity to undertake the Project;

This Agreement constitutes its legal, valid and binding obligation enforceable against it in accordance with the terms hereof;

It is subject to civil and commercial laws of India with respect to



Handwritten signature/initials.

this Agreement and it hereby expressly and irrevocably waives any immunity in any jurisdiction in respect thereof;

- (vii) All the information furnished in the Bid is, and shall be, true and correct as on the Commencement Date and COD and the Balance Sheet and Profit and Loss Account of the Concessionaire for each of its Accounting Years after the Commencement Date furnished to NHAI shall give true and fair view of the affairs of the Concessionaire;
- (viii) It shall furnish a copy of the audited accounts of the Company within 120 (one hundred twenty) days of the close of its each Accounting Year after the Commencement Date and any material change subsequent to the date of such accounts shall be notified to NHAI by the Concessionaire within 30 (thirty) days of its occurrence and warrants that the accounts and the information furnished as aforesaid shall be true and correct;
- (ix) The execution, delivery and performance of this Agreement will not conflict with, result in the breach of, constitute a default under or accelerate performance required by any of the terms of the Memorandum and Articles of Association of the Concessionaire or any Member of the Consortium or any Applicable Laws or any covenant, agreement, understanding, decree or order to which, it is a Party or by which it or any of its properties or assets is bound or affected;
- (x) There are no actions, suits, proceedings, or investigations pending or, to the Concessionaire's knowledge, threatened against it at law or in equity before any court or before any other judicial, quasi-judicial or other authority, the outcome of which may result in the breach of or constitute a default of the Concessionaire under this Agreement or which individually or in the aggregate may result in any Material Adverse Effect on its business, properties or assets or its condition, financial or otherwise, or in any impairment of its ability to perform its obligations and duties under this Agreement;
- (xi) It has no knowledge of any violation or default with respect to any order, writ, injunction or any decree of any court or any legally binding order of any Governmental Agency which may result in any Material Adverse Effect or impairment of the Concessionaire's ability to perform its obligations and duties under this Agreement;
- (xii) It has complied with all Applicable Laws and has not been subject to any fines, penalties, injunctive relief or any other civil or criminal liabilities which in the aggregate have or may have Material Adverse Effect on its financial condition or its ability to perform its obligations and duties under this Agreement;
- (xiii) The equity share holding of the aggregate holding of Consortium Members (in case of consortium) and their Associates as the case may be in the issued and paid up equity share capital of the Concessionaire shall not be less than (a) 51% (fifty one percent) during the Construction Period and for 3 (three) years following COD, and (b) 26% (twenty six per cent) during the balance remaining Operations Period. Also in the case of Consortium, M/s. Apollo Enterprises Limited, the Lead Member would commit to hold a minimum equity stake equal to 51 % of the aggregate shareholding of the Consortium in the issued and paid up equity share capital of the Concessionaire at all times during the Concession Period. M/s D.S. Constructions Limited who are the Consortium Members, each commit to hold a minimum equity stake equal to 10% of the aggregate shareholding of



the Consortium in the issued and paid-up equity share capital of the Concessionaire at all times during the Concession period:

- (xiv) Each Consortium Member was and is duly organised and existing under the laws of the jurisdiction of its incorporation and has full power and authority to consent to and has validly consented to and requested NHAI to enter into this Agreement with the Concessionaire pursuant to the LOA and has agreed to and unconditionally accepted the terms and conditions set forth in this Agreement;
- (xv) All rights and interests of the Concessionaire in and to the Project Highway shall pass to and vest in NHAI on the Termination Date free and clear of all liens, claims, and Encumbrances without any further act or deed on the part of the Concessionaire or NHAI and that none of Project Assets including materials, supplies or equipment forming part thereof shall be acquired by the Concessionaire subject to any agreement under which a security interest or other lien or Encumbrance is retained by any person save and except as expressly provided in this Agreement;
- (xvi) No representation or warranty by the Concessionaire contained herein or in any other document furnished by it to NHAI, or to any Governmental Agency in relation to Applicable Permits contains or will contain any untrue statement of material fact or omits or will omit to state a material fact necessary to make such representation or warranty not misleading; and
- (xvii) It warrants that no sums, in cash or kind, have been paid or will be paid by or on behalf of the Concessionaire, to any person by way of fees, commission or otherwise for securing the Concession or entering into this Agreement or for influencing or attempting to influence any officer or employee of NHAI, GOI or Government of Uttar Pradesh and Madhya Pradesh in connection therewith;
- (xviii) It warrants that it has deposited the Performance Security in accordance with the RFP and undertakes to keep the same or any replacements there for in full force and effect in accordance with the provisions of this Agreement.

11.2 Representations and Warranties of NHAI.

NHAI represents and warrants to the Concessionaire that:

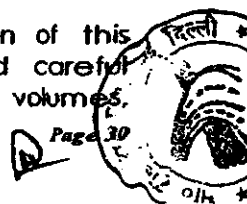
- (i) NHAI is duly organised and validly existing under the laws of India;
- (ii) NHAI has full power and authority to execute, deliver and perform its obligations under this Agreement and to carry out the transactions contemplated hereby;
- (iii) NHAI has taken all necessary action to authorise the execution, delivery and performance of this Agreement;
- (iv) This Agreement constitutes its legal, valid and binding obligation enforceable against it in accordance with the terms hereof; and
- (v) NHAI is subject to civil and commercial laws of India with respect to this Agreement and it hereby expressly and irrevocably waives any sovereign immunity in any jurisdiction in regard to matters set forth in this Agreement.

DISCLAIMER

The Concessionaire acknowledges that prior to the execution of this Agreement, the Concessionaire has after a complete and careful examination made an independent evaluation of the traffic volumes.



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Specifications and Standards; Site and all the information provided by NHA and has determined to the Concessionaire's satisfaction the nature and extent of such difficulties, risks and hazards as are likely to arise or may be faced by the Concessionaire in the course of performance of its obligations hereunder.

- 12.2 The Concessionaire acknowledges and hereby accepts the risk of inadequacy, mistake or error in or relating to any of the matters set forth in Clause 12.1 above and hereby confirms that NHA shall not be liable for the same in any manner whatsoever to the Concessionaire, the Consortium Members or their Associates

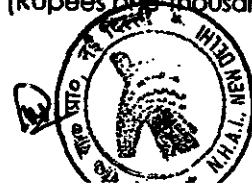


PROJECT DEVELOPMENT AND OPERATIONS

XIII USE AND DEVELOPMENT OF THE SITE

- 13.1 NHAI hereby grants to the Concessionaire for the Development Period access to the Site for carrying out such surveys, investigations, soil tests, design, engineer, procure, construct, operate and maintain the Project Highway including the Project Facilities in accordance with Clause 13.2 below and the provisions of this Agreement as the Concessionaire may deem necessary at the Concessionaire's cost, expense and risk without causing disruption in the traffic on the existing lanes of the Project Highway.
- 13.2 NHAI hereby grants to the Concessionaire for the Concession Period the right and license to enter upon all real estate comprised in the Site as briefly described in Schedule 'A' and to survey, design, engineer, procure, construct, operate and maintain the Project Highway including the Project Facilities in accordance with the provisions of this Agreement. Such right and license of the Concessionaire to the use the Site shall be subject to:
- 13.2.1 Any existing utilities on, under or above the Site are kept in continuous satisfactory use, if necessary by the use of suitable temporary or permanent diversions with the authority of the controlling body of that utility;
- 13.2.2 Any existing roads or right of ways are kept in continuous satisfactory use, if necessary, by the use of suitable temporary or permanent diversions with the authority of the controlling body of that road or right of way. For any diversion or construction, of temporary roads, NHAI will assist the Concessionaire in acquiring the right of way;
- 13.2.3 The rights of the road users to use the road in accordance with this Agreement;
- 13.2.4 A right of access by the NHAI itself and any of its agents to perform their obligations and rights under the Concession Agreement or any other functions that they have, and to conduct any study or trial for the purpose of research;
- 13.3 The license and the right to use the Site shall be granted for the purpose of carrying out the functions placed upon the Concessionaire under the Agreement and not for any other purposes;
- 13.4 The Concessionaire shall bear all costs and charges for special and temporary rights of way required by it in connection with access to the Site. The Concessionaire shall obtain at its cost such facilities on or outside the Site as may be required by it for the purposes of the Project Highway and the performance of its obligations under this Agreement.
- 13.5 **Right of Way**
- 13.5.1 **Existing Right-of-way**

Existing Right-of-way shall be made available to the Concessionaire pursuant hereto by NHAI free from all Encumbrances and without the Concessionaire being required to make any payment to NHAI on account of any costs, expenses and charges for the use of such sites for the duration of the Concession Period save and except as otherwise expressly provided in this Agreement. NHAI shall procure for the Concessionaire access to the entire existing right-of-way free of Encumbrances, as per Schedule H. Provided, however, that if NHAI does not enable such access to any part or parts of the Existing Right-of-way for any reason other than a Force Majeure Event or breach of this Agreement by the Concessionaire, NHAI shall pay to the Concessionaire Damages at the rate of Rs.1,000 (Rupees one thousand) per

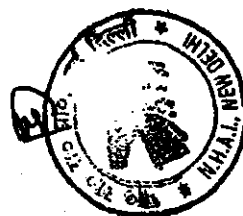
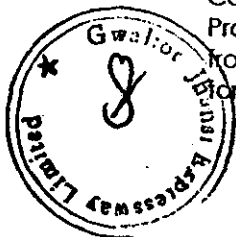


month per 1,000 (one thousand) sq. meters or part thereof if such area is required by the Concessionaire for Construction Works. Such Damages shall be raised to Rs. 2,000 (Rupees two thousand) per month per 1,000 (one thousand) sq. meters or part thereof after COD if such area is essential for the smooth and efficient operation of the Project Highway. Provided further that the Completion Certificate or the Provisional Certificate, as the case may be, for the Project Highway shall not be affected or delayed as a consequence of such parts of the Existing Right-of-way remaining under construction after the Scheduled Project Completion Date.

13.5.2 Additional Right-of-way

Additional Right-of-way for construction of main carriageway shall be made available to the Concessionaire as per the handing over schedule mentioned herein free from all encumbrance and without the Concessionaire being required to make any payment to NHAI on account of any costs, expenses and charges for the use of such Additional Right-of-way for the duration of the Concession Period. On or after the Commencement Date, the Concessionaire shall commence, undertake and complete all Construction Works on the Project Highway in accordance with this Agreement. Provided, however, that if NHAI does not enable such access to any part or parts of the Additional right of way for any reason other than a Force Majeure Event or breach of this Agreement by the Concessionaire as per the Schedule H, NHAI shall pay to the Concessionaire Damages at the rate of Rs. 1000 (Rupees one thousand) per month per 1000 (one thousand) sq. meters or part thereof if such area is required by the concessionaire for Construction Works. Such Damages shall be raised to Rs. 2,000 (Rupees two thousand) per month per 1000 (one thousand) sq. meters or part thereof after COD if such area is essential for smooth and efficient operation of the Project Highway. Provided further that that the Completion Certificate or the Provisional Certificate, as the case may be, for the Project Highway shall not be affected or delayed as a consequence of such parts of the existing right of way remaining under construction after the Scheduled Project Completion Date.

- 13.6 Construction of the Project Highway shall be undertaken by the Concessionaire in conformity with the Project Completion Schedule 'H' and the Project milestones set forth in Schedule 'H' for completion of the Project Highway on or before the Scheduled Project Completion Date. If the Concessionaire fails to achieve any such Project milestone other than Project Completion, within a period of 90 (ninety) days from the date set forth in Schedule 'H' then it shall pay Damages to NHAI at the rate of Rs. 1,000,000 (Rs. One million) per day until such milestone is achieved. NHAI may either recover such Damages from the Performance Security or demand payment thereof from the Concessionaire. The Concessionaire shall make such payment within 7 (seven) days of receiving such demand from NHAI and any delay in making such payment shall attract interest @ SBI PLR plus two per cent. In the event the Concessionaire achieves Project completion as per Scheduled Project Completion Date as set forth in Schedule 'H', such damages paid by the Concessionaire to NHAI shall be refunded by NHAI within 90 (ninety) days from the date of written request from the Concessionaire without any interest thereon, provided that the Scheduled Project Completion Date as set forth in Schedule 'H' has not been extended from the date defined at the time of the signing of this Concession Agreement for any reason.



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XIV. MONITORING AND SUPERVISION OF CONSTRUCTION

- 14.1 During the Construction Period, the Concessionaire shall furnish to NHAI and the Independent Consultant monthly progress reports of actual progress of the Construction Works comprised in the Project Highway and shall give all such other relevant information as may be required by NHAI and/or the Independent Consultant
- 14.2 The Independent Consultant shall inspect the Construction Works and the Project Highway at least once a week during the Construction Period and make out an Inspection Report of such inspection (the "Inspection Report"). It shall send a copy of its Inspection Report to NHAI and the Concessionaire. The Concessionaire shall take necessary action to remedy the lapses, if any, stated in the Inspection Report for ensuring compliance with the provisions of this Agreement. Such inspection or submission of Inspection Report by the Independent Consultant shall not relieve or absolve the Concessionaire of its obligations and liabilities hereunder in any manner whatsoever.
- 14.3 For the purposes of determining that Construction Works are being undertaken in accordance with Specifications and Standards and Good Industry Practice, the Independent Consultant undertake day to day supervision of the works along with the Quality control consultant of the Concessionaire in accordance with Schedule 'U' of this Agreement. The Independent Consultant shall also require the Concessionaire to carry out such Tests at such time and frequency and in such manner as may be necessary in accordance with Good Industry Practice for quality assurance. The Concessionaire shall with due diligence carry out, or cause to be carried out, all such tests in accordance with the instructions of the Independent Consultant and furnish the results of such tests forthwith to the Independent Consultant. The Concessionaire shall promptly carry out such remedial measures as may be necessary to cure the defects or deficiencies, if any, indicated in such test results and furnish a report to the Independent Consultant in this behalf.
- 14.4 If the Independent Consultant or NHAI shall reasonably determine that the rate of progress of the Construction of the Project Highway is such that the Project Completion is not feasible on or before the Scheduled Project Completion Date by the Concessionaire, it shall so notify the Concessionaire about the same and the Concessionaire shall within 15 (fifteen) days thereof notify the NHAI and the Independent Consultant about the steps it proposes to take to expedite progress and the period within which it shall achieve COD.
- 14.5
- (a) Upon recommendation of the Independent Consultant or suo-moto, NHAI may by written notice require the Concessionaire to suspend forthwith the whole or any part of the Construction Works if in the reasonable opinion of the NHAI such work is being carried on in a manner which threatens the safety of the works or of the users of the Project Highway
- (b) The Concessionaire, shall upon instructions of the NHAI pursuant to sub-clause (a) above suspend the Construction Works or any part thereof for such time and in such manner as may be specified by NHAI and subject to sub-clause
- (c) below, the costs incurred during such suspension to properly protect and secure the Construction Works or such part thereof as is necessary in the opinion of the Independent Consultant ("Preservation Costs"). Shall be borne by the Concessionaire.



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(d) If the suspension pursuant to Sub-clause (a) above, is caused by:

- (i) any reason other than default or breach of this Agreement by the Concessionaire including breach of any of the obligations of the Concessionaire under this Agreement, the Preservation Costs shall be borne by NHAI;
 - (ii) reason of default or breach of this Agreement by NHAI the Preservation Costs shall be borne by NHAI; or
 - (iii) reason of any Force Majeure Event, the Preservation Costs shall be borne by the Concessionaire save and except to the extent otherwise expressly provided in Article XXIX
- (d) If suspension of Construction Works is for reasons not attributable to the Concessionaire, the Independent Consultant shall determine any extension to the Project Completion Schedule, the Scheduled Project Completion Date and the Concession Period, to which the Concessionaire is reasonably entitled and shall notify NHAI accordingly. NHAI shall extend the Project Completion Schedule, the Scheduled Project Completion Date and the Concession Period in accordance with the recommendations of the Independent Consultant. However, the number of annuity payments shall not exceed 35 (Thirty Five)

XV. COMPLETION

- 15.1 The Project shall be deemed to be complete and open to traffic only when the Completion Certificate or the Provisional Certificate is issued in accordance with the provisions of Article XVI (the "Project Completion")
- 15.2 COD of the Project shall be the date on which the Independent Consultant has issued the Completion Certificate or the Provisional Certificate, as the case may be, under this Agreement
- 15.3 The Concessionaire guarantees that the Project Completion shall be achieved in accordance with the provisions of this Agreement on a date not later than 30 (thirty) months from the Commencement Date ("Scheduled Project Completion Date").
- 15.4 Deleted
- 15.5 If the COD does not occur within 12 (twelve) months from the Scheduled Project Completion Date, NHAI shall be entitled to Terminate this Agreement in accordance with the provisions of Clause 32.2.

XVI. TESTS

- 16.1 All Tests including but not limited to load test on structures shall be conducted in accordance with Schedule 'J' and the Applicable Laws and Applicable Permits. NHAI shall designate a NHAI Representative to witness and observe the Tests. All Tests shall be held in accordance with the schedule notified by the Concessionaire to the Independent Consultant and the NHAI Representative who may either witness the Tests themselves or designate their representatives for this purpose, if they choose. The team leader of the Independent Consultant shall witness at least 5-10% of all such Tests and other key professionals shall witness at least 25-30% of such Tests.

The Independent Consultant shall monitor the results of the Tests to determine the compliance of the Project Highway with the Specifications and Standards. The Concessionaire shall provide to the Independent Consultant and the NHAI with copies of all Test data including detailed Test results.



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- 16.3 At least 30 (thirty) days prior to the likely completion of the Project Highway the Concessionaire shall notify the Independent Consultant and NHAI of the same and shall give notice of its intent to conduct any final Tests. The Concessionaire shall give to NHAI and the Independent Consultant at least 10 (ten) days' prior notice of the actual date on which it intends to commence the Tests and at least 7 (seven) days' prior notice of the commencement date of any subsequent Tests. The Independent Consultant shall have the right to suspend or delay any Test if it is reasonably anticipated or determined during the course of the Test that the performance of the Project Highway or any part thereof does not meet the Specifications and Standards.
- 16.4 Upon the Independent Consultant determining the Tests to be successful in respect of any stretch referred to in Clause 16.3 having been satisfied that such stretch of the Project Highway can be legally, safely and reliably placed in commercial operations, the Independent Consultant shall forthwith issue to the Concessionaire and NHAI a Certificate in respect of such stretch substantially in the form set forth in Schedule 'K' (the "Completion Certificate") after approval from NHAI and upon Completion Certificate having been issued in respect of all stretches referred to in Clause 16.3 issue a final Completion Certificate certifying the Project Completion.
- 16.5 Independent Consultant may at the request of the Concessionaire issue a provisional certificate of completion ("Provisional Certificate"), after approval from NHAI, if the Tests are successful in respect of any stretch referred to in Clause 16.3 and such stretch of the Project Highway can be legally, safely and reliably placed in commercial operation though certain works or things forming part thereof are not yet complete. In such an event such Provisional Certificate shall have appended thereto a list of outstanding items signed jointly by the Independent Consultant and the Concessionaire ("Punch List"). Such Punch List shall be drawn up in consultation with NHAI, and NHAI may at its discretion through Independent Consultant may add or delete any items forming part of the Punch List at any time before issue of the Provisional Certificate. All Punch List items shall be completed by the Concessionaire within 120 (one hundred twenty) days from the date of issue of such Provisional Certificate. In case of any delay in completion of the Punch List items beyond the aforesaid period of 120 (one hundred twenty) days, NHAI shall, without prejudice to its rights under this Agreement, including Termination thereof, be entitled to undertake the completion of the Punch List items, based on the cost estimated by the Independent Consultant, at the risk and cost of the Concessionaire and to recover the same from the Concessionaire. In addition to recovery of the aforesaid cost of completion of the Punch List items by NHAI, a sum equal to 200% (two hundred percent) of such cost, subject to a minimum of Rs. 1,000,000 (Rs. One million) shall also be recovered by NHAI from the Concessionaire as Penalty. NHAI shall have the right and the Concessionaire hereby expressly grants to NHAI the right to recover the same directly from the Escrow Account and for that purpose the Concessionaire hereby expressly authorizes NHAI and hereby gives irrevocable instructions to the Escrow Bank to make payment from the Escrow Account in accordance with the instructions of NHAI under this Clause. Upon completion of all Punch List items to the satisfaction of the Independent Consultant, the Independent Consultant shall issue the Completion Certificate to the Concessionaire after approval from NHAI. Failure to complete the Punch List items in the manner set forth in this Clause 16.5 shall entitle NHAI to Terminate this Agreement in accordance with the provisions of Clause 32.2.



16.6 If the Independent Consultant certifies to NHAI and the Concessionaire that it is unable to issue the Completion Certificate or Provisional Certificate because of events or circumstances which excuse the performance of the Concessionaire's obligations in accordance with this Agreement and as a consequence thereof the Tests could not be held or had to be suspended, the Concessionaire shall re-schedule the Tests and hold the same as soon as reasonably practicable.

16.7 Upon receipt of a report from the Independent Consultant or after conducting its own review or inspection, if NHAI is not satisfied with the results of any Tests, it shall within 7 (seven) days thereof notify the Concessionaire of its reasons to conclude that the Completion Certificate should not be issued, in which case the Concessionaire shall promptly take such action as will achieve such satisfaction. Such procedure shall be repeated as necessary after rectification and remedy of reasons/ causes by the Concessionaire on account of which the Tests were unsuccessful, until the Completion Certificate or Provisional Certificate has been issued in accordance with this Agreement by the Independent Consultant.

16.8 The Concessionaire shall bear all the expenses relating to Tests under this Agreement. Provided, however, that if the NHAI Representative requires any Test to be conducted which is not specified in this Agreement and such Test is not necessary in the opinion of the Independent Consultant, then the expenses on such Test shall be reimbursed by NHAI to the Concessionaire.

XVII. CHANGE OF SCOPE

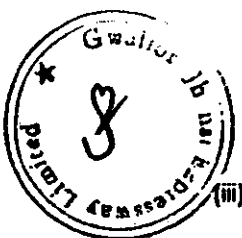
17.1 NHAI may, notwithstanding anything to the contrary contained in this Agreement, require provision of such addition /deletion to the works and services on or about the Project Highway, during the Construction Period, which are beyond the scope of the Project as contemplated by this Agreement ("Change of Scope"), provided such changes do not require any increase/ reduction in expenditure exceeding 10 %(ten per cent) of the Total Project Cost and do not adversely affect the COD. All such changes shall be made by NHAI by an order (the "Change of Scope Order") issued in accordance with the procedure set forth in this Article XVII.

17.2 Procedure for Change of Scope

(a) NHAI shall whenever it desires provision of addition/deletion of works and services referred to in Clause 17.1, issue to the Concessionaire a notice of change of scope (the "Change of Scope Notice").

(b) Upon receipt of such Change of Scope Notice, the Concessionaire shall within 15 days provide to NHAI and the Independent Consultant such information as is necessary and reasonable together with preliminary documentation in support of the following:

- (i) the impact, if any, which the Change of Scope is likely to have on the Project Completion Schedule if the work is required to be carried out before COD, and
- (ii) (ii) the cost implications to the Concessionaire of complying with such Change of Scope Notice. The rates shall be worked out based on the concerned State PWD (NH) current schedule of rates based on MORTH data book. In case an item is not covered under the above mentioned schedule rates, the rate of such item shall be worked out on the basis of the prevailing market rate so far as found reasonable and competitive by IC



(iii)

the options suggested for implementing the proposed Change of Scope and the effect, if any, each such option would have on the



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costs and time for the implementation thereof including a detailed breakdown by work classifications. Provided, however, that the cost of providing such information shall be reimbursed to the Concessionaire by NHAI to the extent such costs are certified to be reasonable by the Independent Consultant.

- (c) If NHAI desires, after receipt of information set forth in sub-clause (b) to proceed with the Change of Scope, it shall convey the desired option (with or without modification) to the Concessionaire by issuing a Change of Scope Order within 30 (Thirty) days from the date of recommendation made by Independent Consultant and thereupon the Parties shall make good faith efforts to mutually agree upon the costs and time for implementing of the same. Upon reaching an agreement relating to such costs and time, NHAI shall issue a written confirmation of the Change of Scope and thereupon the Concessionaire shall proceed with performance of such order with NHAI making monthly payments for such works based on the physical progress and as approved and certified by Independent Consultant. In the event, the Parties are unable to agree, NHAI may, by issuing a confirmation in writing of such Change of Scope Order, require the Concessionaire to proceed with the performance of the Change in Scope Order pending resolution of such dispute.

- 17.3 A Change of Scope Order will be effective and binding upon issuance of a confirmation of such Change of Scope Order by NHAI. Notwithstanding a dispute regarding cost and time for implementation of such Change of Scope Order, the Concessionaire shall proceed with the performance of such Change of Scope Order promptly following NHAI's confirmation pursuant to Clause 17.2 (c). Pending resolution of such dispute, NHAI shall either pay to the Concessionaire, if the Change of Scope Order involves increase in Bill of Quantities or recover from the Concessionaire if the said Change of Scope Order involves decrease in Bill of Quantities, an amount equal to the costs that are certified by the Independent Consultant to be reasonable plus/minus (as the case may be) one-half the difference between the amount certified by the Independent Consultant and the amount claimed by the Concessionaire with final adjustments to be made in accordance with the resolution of dispute under the Dispute Resolution Procedure. In case NHAI has to make payment it shall do so within 60 (sixty) days from the date of receipt of duly verified claims as per procedure given in this Clause. In case NHAI has to recover from the Concessionaire, the amount will be recovered directly from the Escrow Account and for that purpose the Concessionaire hereby expressly authorised NHAI and hereby gives irrevocable instructions to Escrow Bank to make payment from the Escrow Account in accordance with instructions of NHAI under this clause.

- 17.4 All claims by the Concessionaire pursuant to this Article XVII shall be supported by such documentation as is reasonably sufficient for NHAI/IC to determine the accuracy thereof, including invoices from Contractors and certification of such claims by the Statutory Auditors.

NHAI may request further improvements to the Project Assets and Project Highway, subject to a limit of 20% of the Project Cost, during the Operations Period in the form of a Change of Scope order that are required to make the Project Highway comply with the latest Specifications and Standards, and other requirements set forth in this Agreement, Good Industry Practice, Applicable laws and Applicable Permits during the entire Operations Period ("Value Additions"). The cost of such Value Additions shall be borne by NHAI and such costs shall be computed and the work for such Value Additions shall be carried out in the manner as set forth in this Article 17.



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XVIII OPERATION AND MAINTENANCE

18.1 The Concessionaire shall operate and maintain the Project Highway by itself, or through O&M Contractors and if required, modify, repair, improvements to the Project Highway to comply with Specifications and Standards, and other requirements set forth in this Agreement, Good Industry Practice, Applicable laws and Applicable Permits and more specifically:

- (i) permitting safe, smooth and uninterrupted flow of traffic during normal operating conditions;
- (ii) to allow NHAI to levy, demand, collect and appropriate the Fees from vehicles and persons liable to payment of Fees for using the Project Highway or any part thereof as per Article VII
- (iii) minimizing disruption to traffic in the event of accidents or other incidents affecting the safety and use of the Project Highway by providing a rapid and effective response and maintaining liaison procedures with emergency services;
- (iv) undertaking routine maintenance including prompt repairs of potholes, cracks, concrete joints, drains, line marking, lighting and signage;
- (v) undertaking major maintenance such as resurfacing of pavements, repairs to structures, and hardware and other equipment;
- (vi) carrying out periodic preventive maintenance to Project Highway;
- (vii) preventing with the assistance of concerned law enforcement agencies unauthorised entry to and exit from the Project Highway;
- (viii) preventing with the assistance of the concerned law enforcement agencies encroachments on the Project Highway including Site and preserve the right of way of the Project Highway;
- (ix) maintaining a public relations unit to interface with and attend to suggestions from users of the Project Highway, the media, Government Agencies, and other external agencies; and
- (x) adherence to the safety standards set out in Schedule 'S'.

18.2 The Concessionaire shall in consultation with the Independent Consultant prepare not later than 180 (one hundred and eighty) days before the Scheduled Project Completion Date, the repair and maintenance manual (the "Maintenance Manual") for the regular and periodic maintenance, and shall ensure and procure that at all times during the Operations Period, the Project Highway is maintained in a manner that it complies with the Specifications and Standards and the minimum maintenance requirements set forth in Schedule 'L'. The Concessionaire shall supply, at least two months before the COD, 10 (ten) copies of the Maintenance Manual to NHAI and 3 (three) copies each to Government of Uttar Pradesh and Madhya Pradesh and Independent Consultant. Copies of the Maintenance Manual shall also be made available by the Concessionaire for public inspection during office hours at a conspicuous place on the Project Highway.



Not later than forty five (45) days before the beginning of each Accounting Year, the Concessionaire, shall in consultation with the Independent Consultant prepare and provide to NHAI, its proposed programme of preventive and other scheduled maintenance of the Project Highway subject to the minimum maintenance requirements set forth in Maintenance Manual and in Schedule 'L' necessary to



maintain the Project Highway at all times in conformity with the Specifications and Standards (the "Maintenance Programme"). Such Maintenance Programme shall include but not be limited to the following:

- (i) intervals and procedures for the carrying out of inspection of all elements of the Project Highway;
- (ii) criteria to be adopted for deciding maintenance needs;
- (iii) preventive maintenance schedule;
- (iv) intervals at which the Concessionaire shall carry out periodic maintenance;
- (v) intervals for major maintenance and the scope thereof; and
- (vi) lane closures schedule for each type of maintenance (length and time).

18.4 Maintenance shall include replacement of equipment/consumables, horticultural maintenance and upkeep of all Project Assets in good order and working condition. Maintenance shall not include the extension of any existing pavements, bridges, structures and other civil works unless part of the Project.

18.5 The Concessionaire shall keep the carriageways, rest areas and other Project Facilities in a clean, tidy and orderly condition free of litter and debris.

18.6 During the Operations Period, the Concessionaire shall not carry out any material modifications to the Project Highway save and except where such (i) modification is required by Good Industry Practice; or (ii) modification is necessary for the Project Highway to operate in conformity with the Specifications and Standards prescribed under this Agreement. Provided that the Concessionaire shall notify NHAI of the proposed modifications along with details thereof at least fifteen days before commencing work on such modifications and shall reasonably consider such suggestions as NHAI may make within 15 (fifteen) days of receipt of such details by NHAI.

18.7 The Concessionaire shall be responsible for the maintenance of the approach roads to and underpasses and overpasses up to 100 mtrs from the Project Highway in accordance with Good Industry Practice.

18.8 Safety, Vehicle Breakdown and Accident

18.8.1 In the case of unsafe conditions, vehicle breakdowns and accidents, the Concessionaire shall follow the relevant operating procedures, which shall include the setting up of temporary traffic cones and lights as well as the removal of obstruction and debris expeditiously. Such procedures shall be in accordance with Applicable Laws, Applicable Permits and provisions of this Agreement.

18.8.2 The Concessionaire shall ensure that any diversion or interruption of traffic is remedied without delay. The Concessionaire's responsibility for rescue operations on the Project Highway shall be limited to the removal of vehicles or debris or any other obstruction, which may endanger or interrupt the smooth traffic flow on the Project Highway.

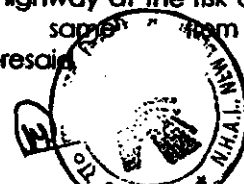
18.8.3 The Concessionaire shall ensure that safety standards specified in Schedule 'S' are strictly complied with in the event of any lane closure or diversion of traffic. Compliance with Schedule 'S' will be monitored by the Independent Consultant and a breach by the Concessionaire of its obligations in respect of this Schedule identified by the Independent Consultant shall be notified immediately and is required to be cured within 24 hours of its notification notwithstanding inspection, reporting procedures outlined elsewhere in this Agreement. In addition, each notified breach shall lead to the award of a



penalty point to the Concessionaire. A total of five penalty points in any continuous period of 365 days shall constitute a Material Breach of this Agreement.

18.9 Emergency De-commissioning

- 18.9.1 If in the reasonable opinion of the Concessionaire there exists an emergency which warrants decommissioning and closure to traffic of whole or any part of the Project Highway, the Concessionaire shall be entitled to de-commission and close the whole or the relevant part of the Project Highway to traffic for so long as such emergency and the consequences thereof warrant, provided however that such emergency decommissioning will be notified to NHAI promptly. NHAI may issue directions to the Concessionaire for dealing with such situations and the Concessionaire shall abide by such directions.
- 18.9.2 The Concessionaire shall re-commission the Project Highway or the affected part thereof as quickly as practicable after the circumstances leading to its de-commissioning and closure have ceased to exist.
- 18.10 The Concessionaire shall not close any lane of the Project Highway for undertaking maintenance or repair works except with the prior written approval of the NHAI which may delegate its authority to the Independent Consultant. Such approval shall be sought by the Concessionaire through a written request to be made at least 7 (seven) days before the proposed closure of lane and shall be accompanied by particulars indicating the nature and extent of repair works, the length and section required to be closed and the period of closure. The Concessionaire shall also furnish particulars indicating the minimum time required for completing such repair works. Within 5 (five) days of receiving such request, NHAI or the Independent Consultant, as the case may be, shall grant permission with such modifications as it may deem necessary. Upon receiving such permission, the Concessionaire shall be entitled to close the lane in accordance with such permission and re-open it within the period stipulated in such permission. For any delay in re-opening such lane during the first Operations Year, the Concessionaire shall pay Damages to NHAI calculated at the rate of Rs.10,000 (Rs. Ten thousand), per day or part thereof for every stretch of 100 (one hundred) meters or part thereof in each lane until such time the stretch has been re-opened for traffic. These damages of Rs.10,000 (Rupees ten thousand) shall be applicable in the first Operations year and shall be revised by WPI in each subsequent Operations year. Provided, however, that these provisions shall not apply to Emergency decommissioning under Clause 18.9.
- 18.11 Save and except as otherwise be expressly provided in this Agreement, if the Project Highway including Construction Works or any part thereof shall suffer any loss or damage during the Concession Period, from any cause whatsoever, the Concessionaire shall, at its cost and expense rectify and remedy such loss or damage or forthwith in a manner so as to make the Project Highway conform in every respect to the Specifications and Standards, quality and performance as prescribed by this Agreement.
- 18.12 In the event the Concessionaire does not maintain and/ or repair the Project Highway or a part thereof up to and in accordance with the Specifications and Standards and/or in accordance with the Maintenance Programme or the Maintenance Manual, and shall have failed to commence remedial works within 30 (thirty) days of receipt of notice in this behalf from NHAI or the Independent Consultant, or the O&M Inspection Report, as the case may be, NHAI shall, without prejudice to its rights under this Agreement, including Termination thereof, be entitled to undertake the repair and maintenance of the Project Highway at the risk and cost of the Concessionaire and to recover the same from the Concessionaire. In addition to recovery of the aforesaid



cost of repair and maintenance by NHAI a sum equal to 25% (twenty five per cent) of such cost shall also be recovered by NHAI from the Concessionaire as Damages. NHAI shall have the right and the Concessionaire hereby expressly grants to NHAI the right to recover the same directly from the Escrow Account and for that purpose the Concessionaire hereby expressly authorises NHAI and hereby gives irrevocable instructions to the Escrow Bank to make payment from the Escrow Account in accordance with the instructions of NHAI under this Clause.

18.13 In the event NHAI does not exercise its option to undertake the required repair and maintenance after expiry of the 30 (thirty) days period stipulated in Clause 18.12 it shall recover Damages from the Concessionaire for default in operating and maintaining the Project Highway in conformity with this Agreement. Such Damages shall be payable after the aforesaid period of 30 (thirty) days and until the default is cured. The amount of Damages shall be calculated for each day of default at the higher of the following, namely (a) Rs.10,000 (Rs. Ten thousand), and (b) 0.1 % (zero point one per cent) of the cost of such repair as estimated by the Independent Consultant. Recovery of such Damages shall be without prejudice to the rights of NHAI under this Agreement, including termination thereof.

18.14 If the Concessionaire commences any works for curing any defects or deficiencies in the Project Highway, it shall complete such works expeditiously in accordance with Good Industry Practice. If such works are carried out in a manner that results in a delay of more than 30 (thirty) days as compared to the time required in accordance with Good Industry Practice, NHAI shall recover Damages from the Concessionaire as if a default had occurred under Clause 18.13.

18.15 The Concessionaire shall not be considered in breach of its obligations under this Agreement if any part of the Project Highway is not available to traffic after the COD on account of any of the following for the duration thereof:

- (i) an event of Force Majeure;
- (ii) measures taken to ensure the safe use of the Project Highway except when unsafe conditions on the road occurred because of failure of the Concessionaire to perform its obligations under this Agreement; or
- (iii) compliance with a request from NHAI or the directions of any Governmental Agency the effect of which is to close all or any part of the Project Highway. Notwithstanding the above, the Concessionaire shall keep all unaffected parts of the Project Highway open to traffic and use provided they can be safely operated and kept open to traffic.

18.16 The Concessionaire will be in persistent breach of O&M Requirements if .

a. any breach of O&M Requirements by the Concessionaire which has not been remedied by the Concessionaire despite a Notice to Remedy in respect thereof issued by the Independent Consultant / NHAI;

b. recurrence of a breach by the Concessionaire, during the pendency of Notice to Remedy by the Independent Consultant/ NHAI requiring the Concessionaire to remedy a breach and

c. repeated occurrence of a breach notwithstanding that earlier breaches have been remedied pursuant to Notice to Remedy or otherwise.

XIX MONITORING AND SUPERVISION DURING OPERATION

The Concessionaire shall undertake periodic (at least once every calendar month but once every week during monsoons) inspection of the Project Highway to determine the condition of the Project Highway including its compliance or otherwise with the Maintenance Manual, the Maintenance



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Programme, Specifications and Standards and the maintenance required and shall submit reports of such inspection ("Maintenance Reports") to NHAI and the Independent Consultant.

- 19.2 The Independent Consultant shall review the Maintenance Reports and inspect the Project Highway at least once a month during the Operations Period and make out an Inspection Report of such inspection (the "O&M Inspection Report"). The Independent Consultant shall send a copy of its O&M Inspection Report to NHAI and the Concessionaire. The Concessionaire shall within 30 (thirty) days of the receipt of the O&M Inspection Report remedy the defects and deficiencies, if any, set forth in such O&M Inspection Report and submit its report in respect thereof to the Independent Consultant and NHAI within the said 30 (thirty) days period. Where the remedying of such defects or deficiencies is likely to take more than 30 (thirty) days in accordance with Good Industry Practice, the Concessionaire shall undertake the works in accordance with such practice and submit progress reports of such works every fortnight. The O&M Inspection Report may also require the Concessionaire to undertake such tests as may be specified by the Independent Consultant for the purpose of determining that the Project Highway is at all times in conformity with the Specifications and Standards. The Concessionaire shall undertake such Tests without any delay and furnish a copy of the results thereof to the Independent Consultant and NHAI along with a written statement specifying in reasonable detail the measures, if any, that it proposes to undertake for curing the defaults or deficiencies indicated in such results. Such inspection or submission of O&M Inspection Report by the Independent Consultant or submission of O&M Inspection Compliance Report by the Concessionaire shall not relieve or absolve the Concessionaire of its obligations and liabilities hereunder in any manner whatsoever.
- 19.3 NHAI may inspect the Project Highway at any time for a review of the compliance by the Concessionaire with its maintenance obligations under this Agreement.

XX. INDEPENDENT CONSULTANT

- 20.1 NHAI shall appoint a consulting engineering firm or body corporate in accordance with the selection process set forth in Schedule 'N' to be the Independent Consultant to undertake and perform the duties, work, services and activities set forth in Schedule 'O'. In addition NHAI, at any time during the Concession Period at its own cost, may appoint a Technical Auditor in the nature of a Proof Consultant to review the work carried out by the Independent Consultant.
- 20.2 The appointment of the Independent Consultant pursuant to Clause 20.1 shall initially be for a period of 48 (forty eight) months from the date of its appointment. The date of such appointment shall be no later than 120 (one hundred twenty) days from the date of this Agreement. After the expiry of the aforesaid appointment, NHAI shall appoint for a term of maximum 3 (three) years as Independent Consultant such firm as it may deem appropriate in accordance with Schedule 'N' as amended from time to time in consultation with the Concessionaire and which may or may not be the same firm, who was Independent Consultant during the initial term. NHAI may in its discretion thereafter renew such appointment or appoint another firm as per the provisions contained in Schedule 'N', as NHAI may deem appropriate to be the Independent Consultant for a term of three years at a time.

The Independent Consultant shall report to NHAI about their work, services, and activities pursuant hereto through regular periodic reports (at least once every month) as the situation may warrant. Such report of Independent



Consultant shall include but not be limited to the matters and things set forth in said Schedule 'O'.

20.4 The remuneration, cost and expenses of the Independent Consultant shall be paid by NHAI. One-half of such remuneration, cost and expenses shall be reimbursed by the Concessionaire to NHAI within 15 (fifteen) days of receiving a statement of expenditure from NHAI. In case the Concessionaire does not reimburse the remuneration, cost and expenses of the Independent Consultant to NHAI within 15 (fifteen) days of receiving a statement of expenditure from NHAI, NHAI shall have the right and the Concessionaire hereby expressly grants to NHAI the right to recover the same directly from the Escrow Account and for that purpose the Concessionaire hereby expressly authorizes NHAI and hereby gives irrevocable instructions to the Escrow Bank to make payment from the Escrow Account in accordance with the instructions of NHAI under this Clause.

20.5 NHAI may terminate the appointment of the Independent Consultant at any time subject to appointment of their replacement by another Independent Consultant in accordance with this Article XX.

20.6 If the Concessionaire has reason to believe that the Independent Consultant is not discharging its duties in a fair, efficient and diligent manner, it may make a written representation to NHAI, stating its reasons in detail, seeking termination of the appointment of the Independent Consultant. Upon receipt of such representation, NHAI shall hold a tripartite meeting with the Concessionaire and Independent Consultant for amicable resolution of the dispute. If the dispute remains unresolved, it shall be resolved in accordance with the Dispute Resolution Procedure. In case the appointment of Independent Consultant is terminated under this Clause, it shall be replaced by another Independent Consultant in accordance with this Article XX.

20.7 If either party disputes any advice, instruction or award of the Independent Consultant, the dispute shall be resolved in accordance with the Dispute Resolution Procedure.

XXI. **TRAFFIC SAMPLING**

21.1 Deleted



FINANCING ARRANGEMENTS

XXII. FINANCIAL CLOSE

- 22.1 The Concessionaire shall provide to NHAI, a copy of the Financing Package furnished by it to the prospective Senior Lenders. As and when such Financing Package is approved by the Senior Lenders, with or without modifications, a copy of the same shall be furnished by the Concessionaire to NHAI forthwith.
- 22.2 Notwithstanding anything to the contrary contained in this Agreement, the Concessionaire covenants with NHAI that it shall achieve Financial Close within 180 (one hundred eighty) days from the date of this Agreement. If the Concessionaire shall fail to achieve Financial Close within the said 180 (one hundred eighty) days period, the Concessionaire shall be entitled to a further period of 120 (one hundred twenty) days subject to an advance weekly payment by the Concessionaire to NHAI of a sum of Rs.100,000 [Rupees one hundred thousand] per week or part thereof for any delay beyond the said 180 (one hundred eighty) day period, as Damages on account of such delay in achieving Financial Close within the said 120 (one hundred twenty) day period by the Concessionaire.
- 22.3 Notwithstanding anything to the contrary contained in this Agreement, NHAI shall be entitled to terminate this Agreement forthwith, without being liable in any manner whatsoever to the Concessionaire, by a communication in writing to the Concessionaire pursuant to Clause 32.2 if the Concessionaire shall have failed to pay in advance the Damages to NHAI under and in accordance with Clause 22.2 above.
- 22.4 Notwithstanding anything to the contrary contained in this Agreement, if the Financial Close shall not occur within 300 (three hundred) days as set forth in Clause 22.2 above, all rights, Privileges, claims and entitlements, if any, of the Concessionaire under or arising out of this Agreement shall be deemed to have been waived by and to have ceased with the concurrence of the Concessionaire, and the Concession Agreement shall be deemed to have been terminated by mutual agreement of the Parties.
- 22.5 Upon Termination of this Agreement under any of the above Clause 22.2, 22.3, 22.4, NHAI shall be entitled to encash the Performance Security and appropriate the proceeds thereof as Damages.

XXIII. MODE OF PAYMENT BY NHAI

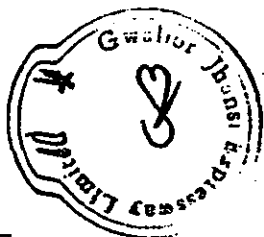
23.1 Mode of Payment

The Concessionaire hereby expressly authorise NHAI to pay Annuity, Bonus, Termination Payment and any other payment which becomes payable by NHAI to the Concessionaire under this Agreement directly to the credit by to the Escrow Account.

23.2 Valid Discharge The Concessionaire hereby agrees, undertakes and confirms that;

a. the payment to the credit of the Escrow Account shall be made by NHAI notwithstanding any instructions to the contrary issued or disputes raised by the Concessionaire.

b. any payment made in accordance with the preceding sub-article (a) shall be valid and NHAI shall to the extent of the payment so made be relieved and discharged of all its obligations in respect of such payments under this Agreement. Provided no such discharge shall prejudice any claim which the Concessionaire may have against the Lenders.



XXIV. Deleted

XXV ESCROW ACCOUNT

25.1 The Concessionaire shall within 15 days from the date of Financial Closure open and establish the Escrow Account with a Bank (the "Escrow Bank") and all funds constituting the Financing Package for meeting the Total Project Cost shall be credited to such Escrow Account. During Operations Period all Annuity, Bonus, Termination Payment and any other payment which becomes payable by NHAI to the Concessionaire under this Agreement shall be exclusively deposited therein.

25.2 Disbursements from Escrow Account

25.2.1 The Concessionaire shall give, at the time of the opening of the Escrow Account, irrevocable instructions by way of an Escrow Agreement substantially in form set forth in Schedule 'Q' (the "Escrow Agreement") to the Escrow Bank instructing, inter alia, that the deposits into the Escrow Account shall subject to Clause 25.2.3, be appropriated in the following order every month and if not due in a month then appropriated proportionately in such month and retained in the Escrow Account and paid out there from in the month when due unless otherwise expressly provided in the instruction letter:

- (i) All taxes due and payable by the Concessionaire;
- (ii) All expenses in connection with and relevant to the Construction of Project Highway by way of payment to the EPC Contractor and such other persons as may be specified in the Financing Documents;
- (iii) O&M Expenses incurred by the Concessionaire directly or through O&M Contractor, if any, subject to the items and ceiling in respect thereof as set forth in the Financing Documents but not exceeding 1/12 (one twelfth) of the annual liability on this account;
- (iv) The whole of the expense on completion of Punch List items incurred by NHAI.
- (v) The whole or part of the expense on repair work or O&M Expense incurred by NHAI.
- (vi) All Concession Fees due to NHAI from the Concessionaire under this Agreement;
- (vii) Reimbursements of expenditure incurred by NHAI, if any, for payment of insurance premium, etc., which are otherwise Concessionaire's responsibility, on account of failure on part of the Concessionaire to keep such insurance(s) effective and in force.
- (viii) Monthly proportionate provision of Debt Service Payments due in an Accounting Year and payment of Debt Service Payments in the month when due;
- (ix) One-half of such remuneration, cost and expenses of the Independent Consultant in case the Concessionaire does not reimburse the remuneration, cost and expenses of the Independent Consultant to NHAI within 15 (fifteen) days of receiving a statement of expenditure from NHAI.
- (x) Any payments and Damages due and payable by the Concessionaire to NHAI pursuant to this Agreement, including recovery due to reduction in the scope of work penalty for non completion of Punch List items, penalty for O&M expenses incurred by NHAI; and
- (xi) Balance in accordance with the instructions of the Concessionaire.

25.2.2 The Concessionaire shall not in any manner modify the order of payment



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specified in this clause 25.2 except with the prior written approval of NHAI.

25.3 Notwithstanding anything to the contrary contained in the Escrow Agreement and subject to the provisions contained in Clauses 33.5 and Article XXXIV, upon Termination of this Agreement, all amounts standing to the credit of the Project Escrow Account shall be appropriated and dealt with in the following order:

- (a) all Taxes due and payable by the Concessionaire;
- (b) all Concession Fees due and payable to NHAI under this Agreement;
- (c) all accrued Debt Service Payment;
- (c) all accrued Debt Service Payment;
- (d) any payments and Damages due and payable by the Concessionaire to NHAI pursuant to this Agreement, including Termination claims and Recovery due to reduction in Scope of Work;
- (e) all accrued O&M Expenses;
- (f) any other payments required to be made under this Agreement; and balance, if any, on the instructions of the Concessionaire.

25.3.1 Notwithstanding anything to the contrary contained in this agreement, any termination payments made by NHAI into the Escrow account shall not be appropriated there from for any purpose whatsoever, until the Vesting Certificate has been issued by NHAI. Provided, however, that this restriction shall not apply to appropriation in favour of the Senior Lenders to the extent of debt due.

25.3.2 From the date, which is 2 years prior to the expiry of the Concession period, a sum equal to the 15% of the Annuity or a higher sum estimated by the Independent Consultant for renewal works, shall not withstanding anything to the contrary contained in this Agreement, be retained in the Escrow Account provided that if a Bank Guarantee of an equivalent sum in the form and content acceptable to NHAI has been furnished by the Concessionaire to NHAI, no such retention shall be made. If following the second Inspection, it is agreed or determined that no renewal works are required, then within 14 days of such agreement, 50 % of the sums thus retained shall be released from the Escrow account to the Concessionaire. Within 14 days after the issue of Vesting Certificate (in accordance with Article XXXIII of the Concession agreement) the sums thus retained shall be released from the Escrow account to the Concessionaire.

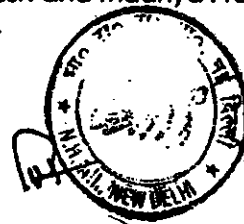
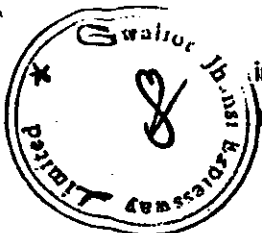
25.4 The instructions contained in the Escrow Agreement shall remain in full force and effect until the obligations set forth in Clause 25.3 have been discharged.

XXVI. STATE SUPPORT AGREEMENT

26.1 The Concessionaire acknowledges that for the performance of its obligations under this Agreement, it requires support and certain services from Government of Uttar Pradesh and Madhya Pradesh. The nature and scope of such support and services required by the Concessionaire from Government of Uttar Pradesh and Madhya Pradesh are fully described in the draft State Support Agreement set forth at Schedule 'R'.

26.2 The Concessionaire acknowledges its obligation to enter into the State Support Agreement and accordingly the Concessionaire agrees and undertakes to enter into at its cost and expense the State Support Agreement with NHAI and Government of Uttar Pradesh and Madhya Pradesh substantially in form and content as set forth in Schedule 'R'.

XXVII. INSURANCE



- 27.1 Insurance during the Construction Period: The Concessionaire shall effect and maintain, or cause to be effected and maintained, at no cost to NHAI during the Construction Period such insurances up to such maximum sums as may be required under and in accordance with the Financing Documents, Applicable Laws and such insurance as the Concessionaire may reasonably consider necessary or desirable in accordance with Good Industry Practice, which shall include, but not limited to (a) Contractor's All Risk, including design defect, (ii) Workmen Compensation, (iii) Construction Plant and Machinery, (iv) Advance Loss of Profits and (v) Third Party Liability. The Concessionaire shall also effect and maintain such insurance as may be necessary for mitigating the risks that may devolve on NHAI as a consequence of any act of omission by the Concessionaire during the Construction Period.
- 27.2 Insurance during the Operations Period: Not later than 4 months prior to the anticipated Completion of the Project Highway, the Concessionaire shall obtain and maintain at no cost to NHAI during the Operations Period in respect of the Project Highway and its operations such insurance as may be required under any of the Financing Documents, Applicable Laws and such insurance as the Concessionaire may reasonably consider necessary or desirable in accordance with Good Industry Practice, including but limited to (i) Standard Fire and Special Perils, (ii) Business Interruption, (iii) General Public Liability, (iv) Construction Plant and Machinery, (v) Accident (vi) Automobile and (vii) Workmen Compensation. Provided, however, the level of insurance to be maintained after satisfaction of Senior Lenders' dues in full, shall be determined on the same principles as applicable for determining the level of insurance prior to such date. This level shall be agreed with NHAI within 120 days of date of this Agreement. For the sake of brevity, the aggregate of the maximum sums insured under the insurance taken out by the Concessionaire pursuant to this Article XXVII are herein referred to as the "Insurance Cover".
- 27.3 Evidence of Insurance Cover: All insurance obtained by the Concessionaire in accordance with this Article XXVII shall be maintained with insurer or reinsures, and on terms consistent with Good Industry Practice. Within thirty days of obtaining any insurance cover, the Concessionaire shall furnish to NHAI, copies of certificates of insurance, copies of the insurance policies signed by an authorised representative of the insurer and copies of all premium payment receipts in respect of such insurance received from each insurance carrier, and such insurance will not be cancelled, changed or not renewed until the expiration of at least 45 (forty five) days after written notice of such cancellation, change of non-renewal has been received by NHAI.
- 27.4 Remedy on Failure to Insure: If the Concessionaire shall fail to effect and keep in force the insurance for which it is responsible pursuant hereto, NHAI shall have the option to keep in force any such insurance, and pay such premium and recover the costs thereof from the Concessionaire, or for the purposes of computation of payments to the Concessionaire pursuant to Article XXIX treat the insurance cover i.e. the maximum sums which such insurance was providing for had it been in force and effect as being deemed to have been received by the Concessionaire
- 27.5 Waiver of Subrogation: All insurance policies supplied by the Concessionaire shall include a waiver of any right of subrogation of the insurers there under against, inter alia, NHAI, and its assigns, subsidiaries, affiliates, employees, insurers and underwriters and of any right of the insurers of any set-off or counterclaim or any other deduction, whether by attachment or otherwise, in respect of any liability of any such person insured under any such policy.
- 27.6 Concessionaire Waiver: The Concessionaire hereby further releases, assigns and waives any and all rights of recovery against, inter alia, the NHAI, and its

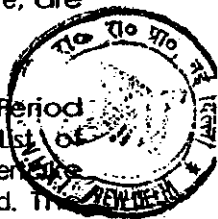
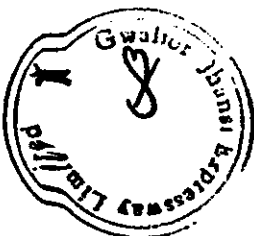


affiliates, subsidiaries, employees, successors, permitted assigns, insurers and underwriters, which the Concessionaire may otherwise have or acquire in or from or in any way connected with any loss covered by policies of insurance maintained or required to be maintained by the Concessionaire pursuant to this Agreement (other than third party liability insurance policies) or because of deductible clauses in or inadequacy of limits of any such policies of insurance.

- 27.7 Application of Insurance Proceeds: The proceeds from all insurance claims, except life and injury, shall be paid to the Concessionaire by credit to the Escrow Account (unless otherwise required by the Financing Documents) who shall, subject to its obligations under the Financing Documents, and notwithstanding anything contained in Article XXV, apply such proceeds for any necessary repair, reconstruction, reinstatement, replacement, improvement, delivery or installation of the Project Highway.

XXVIII. ACCOUNTS AND AUDIT

- 28.1 The Concessionaire shall maintain full accounts of all Annuities derived by it from the Project Highway and of O&M Expenses and other costs paid out of the Project Escrow Account and shall provide copies of the said accounts duly audited and certified by the Concessionaire's Statutory Auditors within 120 (one hundred twenty) days of the close of each Accounting Year to which they pertain, during the subsistence of this Agreement. Such audited accounts shall form the basis of various payments by either Party under this Agreement. The Concessionaire shall also furnish, within one week of its publication, a certified copy of the audited accounts and annual report published by the Company under the Applicable Laws.
- 28.2 The Concessionaire shall appoint and have during the subsistence of this Agreement as its Statutory Auditors a firm of Chartered Accountants duly licensed to practice in India out of the mutually agreed list of 10 (ten) independent and reputable firms of Chartered Accountants in India (the "List of Chartered Accountants"). The criteria for preparing the List of Chartered Accountants are set forth in Schedule T. Subject to a 30 days notice to NHAI and the replacement Statutory Auditors being appointed from the List of Chartered Accountants, the Concessionaire may terminate the appointment of any Statutory Auditor appointed in accordance with this Article. The fees and expenses of the Statutory Auditors shall be borne by the Concessionaire.
- 28.3 On or before the fifteenth day of May each Year, the Concessionaire shall provide for the preceding Accounting Year a statement duly audited by its Statutory Auditors giving summarized information on Annuities derived from the Project Highway and such other information as NHAI may reasonably require.
- 28.4 Notwithstanding anything to the contrary contained in this Agreement, NHAI shall have the right but not the obligation to appoint at its cost another firm of chartered accountants from the List of Chartered Accountants (the "Additional Auditor") to audit and verify all those matters, expense, costs, realizations and things which the Statutory Auditors of the Concessionaire, are required to do, undertake or certify pursuant to this Agreement.
- 28.5 NHAI shall have the right to appoint for the duration of the Construction Period as Concurrent Auditor a firm of Chartered Accountants from the List of Chartered Accountants (the "Concurrent Auditor") who shall undertake the concurrent audit of the Concessionaire during the Construction Period. The charges and expenses of such Concurrent Auditor shall become by the NHAI. After such Construction Period, NHAI may at its option have concurrent audit



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done at such time and for such period as NHAI may deem appropriate at its cost and expenses.

- 28.6 In the event of their being any difference between the finding of the Additional Auditor or the Concurrent Auditor, as the case may be, and the certification provided by the Statutory Auditors of the Concessionaire, such Auditors shall meet to resolve such differences and if they are unable to resolve the same such disputed certification shall be resolved by recourse to the Dispute Resolution Procedure.

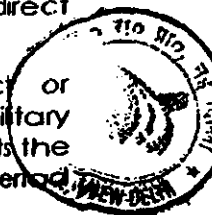
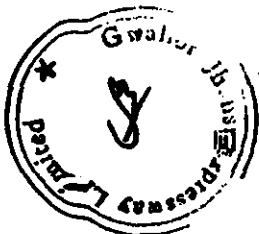


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CHAPTER - VI
FORCE MAJEURE

XXIX. FORCE MAJEURE

- 29.1 **Force Majeure Event:** As used in this Agreement, a Force Majeure Event shall mean occurrence in India of any or all of Non Political Event, Indirect Political Event and/or Political Event as defined in Clauses 29.2, 29.3, and 29.4 respectively hereinafter which prevent the Party claiming Force Majeure (the "Affected Party") from performing its obligations under this Agreement and which act or event is (i) beyond the reasonable control and not arising out of the fault of the Affected Party, (ii) the Affected Party has been unable to overcome such act or event by the exercise of due diligence and reasonable efforts, skill and care, including through expenditure of reasonable sums of money and (iii) has a Material Adverse Effect on the Project.
- 29.2 **Non Political Force Majeure Events:** For purposes of Clause 29.1 Non-Political Events shall mean one or more of the following acts or events:
- (i) acts of God or events beyond the reasonable control of the Affected Party which could not reasonably have been expected to occur, exceptionally adverse weather conditions, lightning, earthquake, cyclone, flood, volcanic eruption or fire (to the extent originating from a source external to the Site or beyond design specifications for the Construction Works) or landslide;
 - (ii) radioactive contamination or ionizing radiation;
 - (iii) strikes or boycotts (other than those involving the Concessionaire, Contractors or their respective employees/ representatives or attributable to any act or omission of any of them) interrupting supplies and services to the Project Highway for a period exceeding a continuous period of 7(seven)days in an Accounting Year, and not being an Indirect Indian Political Event set forth in Clause 29.3 hereof;
 - (iv) any failure or delay of a Contractor but only to the extent caused by another Non-Political Event and which does not result in any offsetting compensation being payable to the Concessionaire by or on behalf of such Contractor;
 - (v) Any judgment or order of any court of competent jurisdiction or statutory authority in India made against the Concessionaire in any proceedings for reasons other than failure of the Concessionaire to comply with any Applicable Law or Applicable Permits or on account of breach thereof, or of any contract, or enforcement of this Agreement or exercise of any of its rights under this Agreement by NHAI or Any judgment or order of any court of competent jurisdiction or statutory authority in India made against the NHAI in any proceedings for reasons other than failure of the NHAI to comply with any Applicable Law or Applicable Permits or on account of breach thereof, or of any contract, or enforcement of this Agreement or exercise of any of its rights under this Agreement by Concessionaire;
 - (vi) Any event or circumstance of a nature analogous to any of the foregoing.
- 29.3 **Indirect Political Force Majeure Events:** For purposes of Clause 29.1. Indirect Political Event shall mean one or more of the following acts or events:
- (i) an act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, blockade, embargo, riot, insurrection, terrorist or military action, civil commotion or politically motivated sabotage which prevents the Affected party from performing any of its obligations for a continuous period of not less then 7 days from the date of its occurrence.
- industry wide or state wide or India wide strikes or industrial action which



prevent the Affected party from performing any of its obligations for a continuous period of not less than 7 days from the date of its occurrence; or

- (iii) any public agitation which prevents the Affected party from performing any of its obligations for a continuous period of not less than 7 days from the date of its occurrence.

29.4 Political Force Majeure Events: For purposes of Clause 29.1, Political Event shall mean one or more of the following acts or events by or on account GOI, NHAI, Government of Uttar Pradesh and Madhya Pradesh or any other Governmental Agency:

- (i) Change in Law, only when provisions of Article XXXVI cannot be applied;
- (ii) expropriation or compulsory acquisition by any Governmental Agency of any Project Assets or rights of the Concessionaire or of the Contractors; or
- (iii) unlawful or unauthorized or without jurisdiction revocation of, or refusal to renew or grant without valid cause any consent or approval required by the Concessionaire or any of the Contractors to perform their respective obligations under the Project Agreements (other than a consent the obtaining of which is Condition Precedent) provided that such delay, modification, denial, refusal or revocation did not result from the Concessionaire's or any Contractor's inability or failure to comply with any condition relating to grant, maintenance or renewal of such consents or permits.

29.5 Effect of Force Majeure Event before Financial Close: Upon the occurrence of any Force Majeure Event prior to Financial Close as set forth in Article XXII, the following shall apply:

- a) There shall be no Termination except as provided in Clause 29.8;
- b) The date for achieving Financial Close shall be extended by the period for which such Force Majeure event shall subsist; and
- c) The Parties shall bear their respective costs and no Party shall be required to pay to the other Party any costs arising out of such Force Majeure Event.

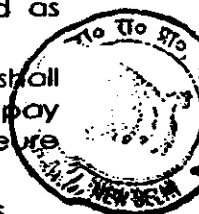
29.6 Effect of Force Majeure Event after Financial Close: Upon occurrence of any Force Majeure Event after Financial Close, the following shall apply:

- a) There shall be no Termination of this Agreement except as provided in Clause 29.8;
- b) Where the Force Majeure Event occurs before COD, the dates set forth in the Project Completion Schedule, and the Concession Period shall be extended by the period for which such Force Majeure Event shall subsist;
- c) Where a Force Majeure Event occurs after COD, the Concessionaire shall continue to make all reasonable efforts to Operate and Maintain the Project Highway.
- d) Costs arising out of or concerning such Force Majeure Event shall be borne in accordance with the provisions of Clause 29.7.

29.7 Allocation of costs during subsistence of Force Majeure: Subject to the provisions of clause 29.6, upon occurrence of a Force Majeure Event after Financial Close, the costs arising out of such event shall be allocated as follows:

When the Force Majeure Event is a Non Political Event, the Parties shall bear their respective costs and neither Party shall be required to pay to the other Party any costs arising out of any such Force Majeure Event;

Where the Force Majeure Event is an Indirect Political Event, the costs



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attributable to such Force Majeure Event and directly relating to the Project (the "Force Majeure Costs") shall be borne by the Concessionaire to the extent of the Insurance Claims, and to the extent such Force Majeure Costs exceed the Insurance Claims, one half of the same to the extent actually incurred and duly certified by the statutory Auditors of Concessionaire shall be reimbursed by NHAI to the Concessionaire in one lump sum or paid in three equal annual installments with interest @ SBI PLR plus two percent; and

- c) Where the Force Majeure Event is a Political Event, the Force Majeure Costs to the extent actually incurred and certified by the Statutory Auditors of Concessionaire shall be reimbursed by NHAI to the Concessionaire in one lump sum or paid in three equal annual installments with interest @ SBI PLR plus two percent, provided that no Force Majeure Costs shall be payable by NHAI if the Concession Period is increased under Clause 29.6.

For avoidance of doubt, Force Majeure Costs shall not include any debt repayment obligations but shall include interest payments on such debt, O&M Expenses and all other costs directly attributable to the Force Majeure Event.

- 29.8 **Termination Notice:** If a Force Majeure Event subsists for a period of 180 (one hundred eighty) days or more within a continuous period of 365 (three hundred sixty five) days, either Party may in its sole discretion terminate this Agreement by giving 30 (thirty) days Termination Notice in writing to the other Party without being liable in any manner whatsoever, save as provided in Clause 29.9.

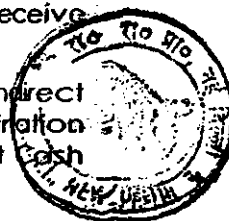
- 29.9 **Termination Payment for Force Majeure Events:** Upon Termination of this Agreement pursuant to Clause 29.8, Termination Payment to the Concessionaire shall be made in accordance with the following:

(i) **Prior to COD**

- a) If Termination is due to a Force Majeure Event which is a Non Political Event, no Termination Payment shall be made by NHAI to the Concessionaire but, the Concessionaire shall be entitled to receive and appropriate the proceeds of any insurance obtained by it.
- b) If Termination is due to a Force Majeure Event which is the Indirect Political Event, NHAI shall pay to the Concessionaire, Termination payment equal to the Book Value as on the date of Termination Notice.
- c) If Termination is due to a Force Majeure Event which is a Political Event, NHAI shall pay to the Concessionaire Termination Payment equal to the Book Value as on the Date of Termination Notice plus the accrued interest thereon @ SBI PLR + 2% p.a., from the date of Financial Close.

(ii) **After COD**

- a) If Termination is due to a Force Majeure Event which is a Non Political Event, no Termination Payment shall be made by NHAI to the Concessionaire but, the Concessionaire shall be entitled to receive and appropriate the proceeds of any insurance obtained by it.
- b) If Termination is due to a Force Majeure Event which is the Indirect Political Event, NHAI shall pay to the Concessionaire, Termination Payment equal to 75% of the Discounted Value of Future Net Cash flows.
- c) If Termination is due to a Force Majeure Event which is a Political Event, NHAI shall pay to the Concessionaire Termination Payment equal to



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the Discounted Value of Future Net Cashflows.

Provided NHA1 shall be entitled to deduct from the Termination Payment any amount due and recoverable by NHA1 from the Concessionaire as on the Termination Date.

29.10 **Dispute Resolution:** In the event that the Parties are unable to agree in good faith about the occurrence or existence of a Force Majeure Event, such dispute shall be finally settled in accordance with the Dispute Resolution Procedure, provided however that the burden of proof as to the occurrence or existence of such Force Majeure Event shall be upon the Party claiming relief and/or excuse on account of such Force Majeure Event.

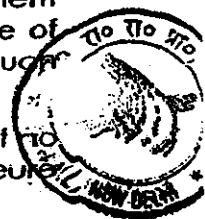
29.11 **Liability for other losses, damages etc:** Save and except as expressly provided in this Article XXIX, neither Party hereto shall be liable in any manner whatsoever to the other Party in respect of any loss, damage, cost, expense, claims, demands and proceedings relating to or arising out of occurrence or existence of any Force Majeure Event or exercise of any right pursuant to this Article XXIX.

29.12 **Duty to Report:** The Affected Party shall discharge the following obligations in relation to reporting the occurrence of a Force Majeure Event to the other Party:

- a) The Affected Party shall not claim any relief for or in respect of a Force Majeure Event unless it shall have notified the other Party in writing of the occurrence of the Force Majeure Event as soon as reasonably practicable, and in any event within 7 (seven) days after the Affected Party knew, or ought reasonably to have known, of its occurrence and the probable material effect that the Force Majeure Event is likely to have on the performance of its obligations under this Agreement.
- b) Any notice pursuant to this Clause 29.12 shall include full particulars of:
 - (i) the nature and extent of each Force Majeure Event which is the subject of any claim for relief under this Article XXIX with evidence in support thereof;
 - (ii) the estimated duration and the effect or probable effect which such Force Majeure Event is having or will have on the Affected Party's performance of its obligations under this Agreement;
 - (iii) the measures which the Affected Party is taking or proposes to take, to alleviate the impact of such Force Majeure Event; and
 - (iv) any other information relevant to the Affected Party's claim.
- c) For so long as the Affected Party continues to claim to be affected by such Force Majeure Event, it shall provide the other Party with regular (and not less than weekly) written reports containing information as required by this Clause 29.12, and such other information as the other Party may reasonably request the Affected Party to provide.

29.13 **Excuse from performance of obligations:** If the Affected Party is rendered wholly or partially unable to perform its obligations under this Agreement because of a Force Majeure Event, it shall be excused from performance of such of its obligations to the extent it is unable to perform on account of such Force Majeure Event provided that:

- a) The suspension of performance shall be of no greater scope and of no longer duration than is reasonably required by the Force Majeure Event;
- b) The Affected Party shall make all reasonable efforts to mitigate or limit damage to the other Party arising out of or as a result of the existence



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or occurrence of such Force Majeure Event and to cure the same with due diligence. And,

- c) When the Affected Party is able to resume performance of its obligations under this Agreement, it shall give to the other Party written notice to that effect and shall promptly resume performance of its obligations hereunder.



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CHAPTER - VII

SUSPENSION AND TERMINATION

XXX. MATERIAL BREACH AND SUSPENSION

- 30.1 If the Concessionaire shall be in Material Breach of this Agreement NHA, shall be entitled in its sole discretion and without prejudice to its other rights and remedies under this Agreement including its right of Termination hereunder, to (i) suspend all or any of the rights of the Concessionaire under this Agreement including payment of Annuity by NHA and (ii) exercise the rights of the Concessionaire under this Agreement itself or authorize any other person to exercise the same during such suspension. Such suspension by NHA shall be by a communication in writing to the Concessionaire and shall be effective forthwith upon the issue thereof to the Concessionaire. Provided, however, that the period of such suspension under this Article XXX shall not exceed 120 (one hundred twenty) days.
- 30.2 Subject to clause 30.1, NHA shall have the right to utilize the proceeds of Annuities for meeting the costs incurred by NHA to remedy and rectify the cause of such suspension and for defraying the O&M Expenses during such suspension period. Provided, however, that if the Concessionaire is making diligent efforts to remedy and rectify such cause, then NHA shall allow the Concessionaire reasonable time and opportunity for such remedy or rectification.
- 30.3 The suspension of the rights of the Concessionaire by NHA pursuant to Clause 30.1 above shall be revoked by NHA forthwith upon the Concessionaire having remedied the Material Breach during such suspension period to the satisfaction of NHA unless in the meantime this Agreement has been terminated by NHA in accordance with Article XXXII.
- 30.4 At any time during the period of suspension under this Article XXX, the Concessionaire may in writing notify to NHA that it does not intend to cure the breach or default that had caused such suspension. Within 7 (seven) days of receipt of such notice, NHA shall terminate this Agreement as if a Material Breach of this Agreement had occurred on account of a Concessionaire Event of Default.

XXXI. COMPENSATION FOR BREACH OF AGREEMENT

- 31.1 In the event of Concessionaire being in material default of this Agreement and such default is cured before Termination, the Concessionaire shall pay to NHA as compensation, all direct additional costs suffered or incurred by NHA arising out of such material default by the Concessionaire, in one lumpsum within 30 (thirty) days of receiving the demand or at the Concessionaire's option in 3 (three) equal semi-annual installments with interest @ SBI PLR plus 2% (two per cent).
- 31.2 In the event of NHA being in material default of this Agreement and such default is cured before Termination, NHA shall pay to the Concessionaire as compensation, all direct additional costs suffered or incurred by the Concessionaire arising out of such material default by NHA, in one lumpsum within 30 (thirty) days of receiving the demand or at NHA's option in 3 (three) equal semi-annual installments with interest @ SBI PLR plus 2% (two per cent).

XXXII. TERMINATION

32.1 Termination for the Concessionaire Event of Default.

32.1.1 Concessionaire Event of Default

The following events shall constitute an event of default by the Concessionaire



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(a "Concessionaire Event of Default") unless such Concessionaire Event of Default has occurred as a result of NHAI Event of Default or a Force Majeure Event;

- 1) The Concessionaire fails to achieve Financial Close in accordance with the provisions of Article XXII;
- 2) The Concessionaire fails to achieve any Project milestone other than Scheduled Project Completion Date within the period set forth in Schedule 'H' and fails to cure such default within a period of 180 (one hundred and eighty) days from the date of its occurrence.
- 3) The Concessionaire is in Material Breach of this Agreement;
- 4) The Concessionaire commits default in complying with any of the terms and conditions of this Agreement, save and except those defaults in respect of which Cure Period has been expressly provided in this Agreement and fails to remedy or rectify the same within the period provided in a notice in this behalf from NHAI which shall:
 - (i) require the Concessionaire to remedy the breach or breaches referred to in such notice within 1 (one) month (or such longer period as may be agreed by the NHAI at its absolute discretion); or
 - (ii) permit the Concessionaire to put forward within 15 days of such notice a reasonable program for the remedying of the breach or breaches, such program to specify in reasonable detail the manner in which such breach or breaches is or are proposed to be remedied and the latest date by which it is proposed that such breach or all such breaches shall be remedied.
- 5) The Concessionaire creates any Encumbrance, charges or lien in favour of any person save and except as otherwise expressly permitted under Clause 35.2;
- 6) The shareholding of the Consortium Members falls below the minimum prescribed under Clause 11.1 (xiii) and the Concessionaire does not suo moto cure such default within 90 (ninety) days of its occurrence;
- 7) The transfer, pursuant to law of either (a) the rights and/or obligations of the Concessionaire under any of the Project Agreements, or (b) all or material part of the assets or undertaking of the Concessionaire except where such transfer in the reasonable opinion of NHAI does not affect the ability of the Concessionaire to perform, and the Concessionaire has the financial and technical capability to perform, its material obligations under the Project Agreements;
- 8) A resolution is passed by the shareholders of the Concessionaire for the voluntary winding up of the Concessionaire;
- 9) The Concessionaire is adjudged bankrupt or insolvent or if a trustee or receiver is appointed for the Concessionaire or for any of its property that has a material bearing on the Project;
- 10) Any petition for winding up of the Concessionaire is admitted by a court of competent jurisdiction or the Concessionaire is ordered to be wound up by Court except for the purpose of amalgamation or reconstruction provided that, as part of such amalgamation or reconstruction, the property, assets and undertaking of the Concessionaire are transferred to the amalgamated or reconstructed entity and that the amalgamated or reconstructed entity has unconditionally assumed the obligations of the Concessionaire under this Agreement and the Project Agreements, and provided that:



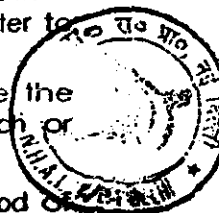
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- (i) the amalgamated or reconstructed entity has the technical capability and operating experience necessary for the performance of its obligations under this Agreement and the Project Agreements;
 - (ii) the amalgamated or reconstructed entity has the financial standing to perform its obligations under this Agreement and the Project Agreements and has a credit worthiness at least as good as that of the Concessionaire as at the Financial Close; and
 - (iii) each of the Project Agreements remains in full force and effect;
- 11) The Concessionaire is in Material Breach of any of the Project Agreements;
 - 12) An event of default of the Concessionaire under any of the Financing Documents has occurred or any of the Senior Lenders has recalled its loan under any of the Financing Documents;
 - 13) The Concessionaire abandons the operations of the Project Highway for more than 15 (fifteen) consecutive days without the prior consent of NHAI, provided that the Concessionaire shall be deemed not to have abandoned such operation if such abandonment was (i) as a result of Force Majeure Event and is only for the period such Force Majeure is continuing, or (ii) is on account of a breach of its obligations by NHAI.
 - 14) The Concessionaire repudiates this Agreement or otherwise evidences an intention not to be bound by this Agreement;
 - 15) The Concessionaire suffers an execution being levied on any of its assets/ equipment causing a Material Adverse Effect on the Project and allows it to be continued for a period of 15 (fifteen) days;
 - 16) The Concessionaire has delayed any payment that has fallen due under this Agreement if such delay exceeds 90 (ninety) days; or

32.1.2 Save and except as otherwise provided in Clause 32.2, and without prejudice to any other right or remedy which NHAI may have in respect thereof under this Agreement, upon the occurrence of any breach or default by the Concessionaire under this Agreement including any Concessionaire Event of Default, NHAI shall be entitled to terminate this Agreement by a communication in writing (the "Termination Notice") to the Concessionaire if the Concessionaire has failed to cure such breach or default within the period provided for the same in this Agreement provided that before issuing the Termination Notice, NHAI shall by a notice in writing inform the Concessionaire of its intention to issue the Termination Notice (the "Preliminary Notice") and grant 15 (fifteen) days time to the Concessionaire to make its representation, if any, against such intended Termination Notice and shall after the expiry of said 15 (fifteen) day period whether or not it is in receipt of such representation, in its sole discretion issue the Termination Notice.

32.1.3 Subject to Clause 32.2, the following shall apply in respect of cure of any of the defaults and/or breaches of this Agreement.

- (i) The Cure Period shall commence from the date on which a notice in writing is delivered by NHAI to the Concessionaire asking the latter to cure the breach or default specified in such notice.
- (ii) The Cure Period provided in this Agreement shall not relieve the Concessionaire from liability for Damages caused by its breach or default;
- (iii) The Cure Period shall not in any way be extended by any period of suspension under this Agreement;
- (iv) If the cure of any breach by the Concessionaire requires any



reasonable action by Concessionaire that must be approved by NHAI or the Independent Consultant hereunder the applicable Cure Period (and any liability of the Concessionaire for damages incurred) shall be extended by the period taken by NHAI or the Independent Consultant to accord their required approval.

32.2 Notwithstanding anything to the contrary contained in this Agreement, in the event of the Concessionaire being in default under any of the provisions hereof expressly providing for Termination under or in accordance with this Clause 32.2. NHAI shall be entitled to terminate this Agreement forthwith by issuing a Termination Notice to the Concessionaire and upon issue of such Termination Notice by NHAI this Agreement shall stand terminated forthwith. Provided, however, that prior to such Termination, NHAI shall by notice grant to the Concessionaire a Cure Period of one month for curing the relevant breach or default of the provisions of this Agreement.

32.3 Upon Termination by NHAI on account of occurrence of Concessionaire Event of Default during the Operations Period, the NHAI shall pay to the Concessionaire by way of Termination Payment an amount equal to 70% (seventy per cent) of the Book Value as on the date of Termination Notice.

32.4 Termination for NHAI Event of Default

32.4.1 The Concessionaire may after giving 90 (ninety) days notice in writing to NHAI terminate this Agreement upon the occurrence and continuation of any of the following events (each a "NHA Event of Default"), unless any such NHAI Event of Default has occurred as a result of Concessionaire Event of Default or due to a Force Majeure Event.

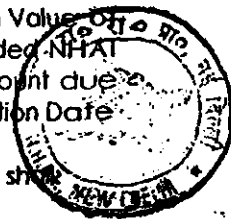
- 1) NHAI is in breach of this Agreement and such breach has a Material Adverse Effect on the Concessionaire and NHAI has failed to cure such breach or take effective steps for curing such breach within 90 (ninety) days of receipt of notice in this behalf from the Concessionaire;
- 2) NHAI repudiates this Agreement or otherwise evidences an irrevocable intention not to be bound by this Agreement;
- 3) Govt or Government of _ or any Governmental Agency have by an act of commission or omission created circumstances that have a Material Adverse Effect on the performance of its obligations by the Concessionaire and have failed to cure the same within 90 (ninety) days of receipt of notice by NHAI in this behalf from the Concessionaire;
- 4) NHAI has delayed any payment that has fallen due under this Agreement if such delay exceeds 90 (ninety) days.

32.4.2 Upon Termination by the Concessionaire on account of an NHAI Event of Default, prior to the COD, the Concessionaire shall be entitled to receive from NHAI by way of Termination Payment a sum equal to Book Value and accrued interest thereon @SBI PLR + 2% (two per cent) p.a. from the date of Financial Close.

Upon Termination by the Concessionaire on account of an NHAI Event of Default after the COD, the Concessionaire shall be entitled to receive from NHAI by way of Termination Payment a sum equal to the Discounted Value of Future Net Cash flows as on the date of Termination Notice. Provided NHAI shall be entitled to deduct from the Termination Payment any amount due and recoverable by NHAI from the Concessionaire as on the Termination Date.

32.5 Upon Termination of this Agreement for any reason whatsoever, NHAI shall

- (i) take possession and control of Project Highway forthwith;
- (ii) take possession and control forthwith of any materials, construction



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plant, implements, stores etc. on or about the Site;

- (iii) restrain the Concessionaire and any person claiming through or under the Concessionaire from entering upon the Site or any part of the Project Highway; and/or
- (iv) succeed upon election by NHAI without the necessity of any further action by the Concessionaire, to the interests of the Concessionaire under such of the Project Agreement as NHAI may in its discretion deem appropriate and shall upon such election be required to compensate such contractors only for compensation accruing and becoming due and payable to them under the terms of their respective Project Agreements from and after the date NHAI elects to succeed to the interests of the Concessionaire as aforesaid. All sums claimed by such Contractors as being due and owing for work and services performed or accruing on account of any act, omission or event prior to such date shall constitute debt between the Concessionaire and such Contractors and NHAI shall in no way or manner be liable or responsible for such sums.

32.6 **Termination Payments:** The Termination Payment pursuant to this Agreement shall become due and payable to the Concessionaire by NHAI within thirty days of a demand being made by the Concessionaire with the necessary particulars duly certified by the Statutory Auditors. If NHAI fails to disburse the full Termination Payment within 30 (thirty) days, the amount remaining unpaid shall be disbursed along with interest @ SBI PLR plus two per cent for the period of delay on such amount.

32.7 **Mode of Payment:** Payment of compensation of costs by NHAI pursuant to this Article XXXII shall be made by way of credit to the Escrow Account and such payment shall constitute valid discharge of NHAI's obligations for Termination Payment hereunder.

32.8 Notwithstanding anything to the contrary contained in this Agreement, any Termination pursuant to the provisions of this Agreement shall be without prejudice to accrued rights of either Party including its right to claim and recover money damages and other rights and remedies which it may have in law or contract. All rights and obligations of either Party under this Agreement, including without limitation Termination Payments and Divestment procedures, shall survive the Termination of this Agreement to the extent such survival is necessary for giving effect to such rights and obligations.

XXXIII. DIVESTMENT OF RIGHTS AND INTERESTS

33.1 Upon Termination of this Agreement, the Concessionaire shall comply with the following:

- a) notify to NHAI forthwith the location and particulars of all Project Assets;
- b) deliver forthwith actual or constructive possession of the Project Highway free and clear of all Encumbrances and execute such deeds, writings and documents as may be required by the NHAI for fully and effectively divesting the Concessionaire of all of the rights, title and interest of the Concessionaire in the Project Highway and conveying the Project Highway free of any charge or cost to NHAI; and
- c) comply with the Divestment Requirements set out in Clause 33.2.

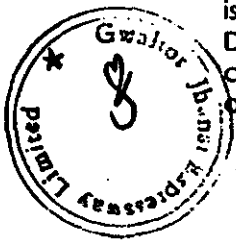
Upon Termination of this Agreement, the Concessionaire shall comply and conform to the following Divestment Requirements in respect of the Project Highway:



- (i) all Project Assets including the road, pavement, structure and equipment shall have been renewed and cured of all defects and deficiencies as necessary so that the Project Highway is compliant with the Specifications and Standards set forth in this Agreement;
- (ii) all sections of each traffic lane (the "Carriageway") of the Project Highway shall have a roughness index of not more than 2500 mm per km and shall be free from defects in accordance with O&M requirements;
- (iii) all lamps shall be in working condition;
- (iv) the Concessionaire delivers relevant records and reports pertaining to the Project Highway and its design, engineering, construction, operation, and maintenance including all operation and maintenance records and programs and manuals pertaining thereto and complete as built Drawings on the Divestment Date;
- (v) the Concessionaire executes such deeds of conveyance, documents and other writings as the NHAI may reasonably require to convey, divest and assign all the rights, title and interest of the Concessionaire in the Project Highway free from all Encumbrances absolutely and free of any charge or tax unto the NHAI or its Nominee; and
- (vi) the Concessionaire complies with all other requirements as may be prescribed under Applicable Laws to complete the divestment and assignment of all the rights, title and interest of the Concessionaire in the Project Highway free from all Encumbrances absolutely and free of any charge or tax to NHAI or its nominee.

33.3 Not earlier than 3 (three) months before the expiry of the Concession Period but not later than 30 (thirty) days before such expiry, or in the event of earlier Termination of this Agreement, immediately upon but not later than 15 (fifteen) days from the date of issue of Termination Notice, the Independent Consultant shall verify, in the presence of a representative of the Concessionaire, compliance by the Concessionaire with the Divestment Requirements set forth in Clause 33.2 in relation to the Project Highway and, if required, cause appropriate tests to be carried out at the Concessionaire's cost for determining the compliance therewith. If any shortcomings in the Divestment Requirements are found by either Party, it shall notify the other of the same and the Concessionaire shall rectify the same at its cost. The provisions of Article XXXIV shall apply mutatis mutandis in relation to repair or curing of defects under this Article XXXIII.

33.4 Upon the Concessionaire conforming to all Divestment Requirements and handing over actual or constructive possession of the Project Highway to NHAI or a person nominated by NHAI in this regard, NHAI shall issue a certificate substantially in the form set forth in Schedule 'V' (the "Vesting Certificate") within 3 months of Concessionaire conforming to all Divestment Requirements and handing over actual or constructive possession of the Project Highway to NHAI, which will have the effect of constituting evidence of divestment of all rights, title and lien in the Project Highway by the Concessionaire and their vesting in NHAI pursuant hereto. Issue of the Vesting Certificate shall not be unreasonably withheld by NHAI. The divestment of all rights, title and lien in the Project Highway shall be deemed to be complete on the date when all the Divestment Requirements have been fulfilled and Vesting Certificate has been issued, it being expressly agreed that any defect or deficiency in any Divestment Requirement shall not in any manner be construed or interpreted as restricting the exercise of any rights by NHAI or its nominee on or in respect of the Project Highway on the footing as if all Divestment Requirements have



been complied with by the Concessionaire.

- 33.5 Notwithstanding anything to the contrary contained in this Agreement, any Termination Payments made by NHAI into the Escrow Account shall not be withdrawn there from for any purpose whatsoever until the Vesting Certificate has been issued by NHAI under this Article. Provided, however, that the aforesaid restriction shall not apply to withdrawals from the Escrow Account in favour of the Senior Lenders to the extent of Debt Due.

33.6 Deleted



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CHAPTER - VIII

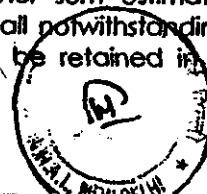
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XXXIV. DEFECTS LIABILITY

- 34.1 Not less than 30 months nor more than 36 months prior to the expiry of the Concession Period, the Concessionaire and the Independent Consultant shall conduct a joint inspection (the "Initial Inspection") of the Project Highway and all Project Facilities.
- 34.2 Within 90 days after the completion of the Initial Inspection, the Concessionaire shall provide to the Independent Consultant a report on the condition of the Project Highway and the Project Facilities and a notice setting out the Concessionaire's proposals as to the renewal works required to comply with the Divestment Requirements.
- 34.3 The Independent Consultant may, within 90 days after receipt of the notice from the Concessionaire in accordance with Clause 34.2, by notice to the Concessionaire object to the proposals giving details of the grounds for such objection and shall give the Independent Consultant's proposals in respect of the renewal works.
- 34.4 If no agreement is reached between the Concessionaire and the Independent Consultant within 30 days of receipt of such notice, then either the Concessionaire or the Independent Consultant may refer the matter to the Disputes Resolution Procedure.
- 34.5 Upon agreement or determination in accordance with the Disputes Resolution Procedure, the Concessionaire shall carry out the renewal works at its own cost.
- 34.6 Not less than 9 months nor more than 12 months prior to the expiry of the Concession Period, the Concessionaire and the Independent Consultant shall conduct a joint inspection (the "Second Inspection") of all elements of the Project Highway and Project Facilities (whether or not the Renewal Works have been carried out).
- 34.7 Within 30 days after the completion of the Second Inspection, the Concessionaire shall provide to the Independent Consultant a report on the condition of the Project Highway and Project Facilities and a notice setting out any revisions or additions to the renewal works required in order to ensure compliance with the Divestment Requirements.
- 34.8 The Independent Consultant may, within 30 days after receipt of the notice from the Concessionaire in accordance with Clause 34.7, by notice to the Concessionaire object to the proposed revisions giving details of the grounds for such objection and shall give the Independent Consultant proposals in respect of such matters.
- 34.9 If no agreement is reached between the Concessionaire and the Independent Consultant within 30 days of receipt of such notice, then either the Concessionaire or the Independent Consultant may refer the matter to the Dispute Resolution Procedure.
- 34.10 Upon agreement or determination in accordance with the Disputes Resolution Procedure, the Concessionaire shall carry out the renewal works (as so revised) at its own cost.



From the date which is 2 years prior to the expiry of the Concession Period a sum equal to 15% of the Annuity or a higher sum estimated by the Independent Consultant for Renewal Works, shall notwithstanding anything to the contrary contained in this Agreement, be retained in the Escrow



Account provided that if a Bank Guarantee of an equivalent sum in the form and content acceptable to NHAI has been furnished by the Concessionaire to NHAI, no such retention shall be made.

- 34.12 If following the Second Inspection, it is agreed or determined that no renewal works are required, then within 14 days of such agreement, 50% of the sums retained in accordance with Clause 34.11 shall be released from the Escrow Account to the Concessionaire.
- 34.13 Within 14 days after the issue of the Vesting Certificate issued in accordance with Article XXXIII the sums retained in accordance with Clause 34.11 shall be released from the Escrow Account to the Concessionaire.

XXXV. ASSIGNMENTS AND CHARGES

- 35.1 Subject to Clauses 35.3 and 35.4, this Agreement shall not be assigned by the Concessionaire save and except with prior consent in writing of NHAI, which consent NHAI shall be entitled to decline without assigning any reason whatsoever.
- 35.2 Subject to Clause 35.3, the Concessionaire shall neither create nor permit to subsist any encumbrance over or otherwise transfer or dispose of all or any of its rights and benefits under this Agreement or any Project Agreements to which Concessionaire is a party except with prior consent in writing of NHAI, which consent NHAI shall be entitled to decline without assigning any reason whatsoever.
- 35.3 Restraint set forth in Clauses 35.1 and 35.2 shall not apply to:
- (i) liens arising by operation of law (or by an agreement evidencing the same) in the ordinary course of business of the Project Highway;
 - (ii) mortgages/pledges/hypothecation of goods/assets other than Project Assets, and those covered by the Substitution Agreement and their related documents of title arising or created in the ordinary course of business of the Project Highway and as security only for indebtedness to the Senior Lenders under the Financing Documents and/or for working capital arrangements for the Project Highway;
 - (iii) assignment of rights, title and interest to or in favour of the Lenders pursuant to and in accordance with the Substitution Agreement in respect of financing by the Senior Lenders under the Financing Documents for the Project; and
 - (iv) liens or encumbrances required by any Applicable Law.
- 35.4 Senior Lenders may exercise the rights of step-in or substitution as provided in the Substitution Agreement to be entered into among the Concessionaire, NHAI and Senior Lenders in the form set forth in Schedule 'au' provided that the person substituting the Concessionaire shall be deemed to be the Concessionaire under this Agreement and shall enjoy all rights and be responsible for all obligations under this Agreement as if it were the Concessionaire. Provided, however, that in the event of such step-in or substitution, an additional Cure Period of 90 (ninety) days shall be provided by NHAI to enable the Concessionaire to cure any breach or default subsisting on the day of such step-in or substitution. Provided further that if the Senior Lenders step in to operate and manage the Concession for a period not exceeding 90 (ninety) days, their liabilities shall be restricted to the obligations relating to and arising during such 90 (ninety) days period.
- Notwithstanding anything to the contrary contained in this Agreement NHAI may assign any of its rights and benefits and/or obligations under this Agreement pursuant to any direction of GOI or by operation of law or in the



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course of its own business.

XXXVI. CHANGE IN LAW

- 36.1 If as a result of Change in Law, the Concessionaire suffers an increase in costs or reduction in net after tax return or other financial burden, the aggregate financial effect of which exceeds Rs.10 million (Rupees ten million) in any Accounting Year, the Concessionaire may notify NHAI and propose amendments to this Agreement so as to put the Concessionaire in the same financial position as it would have occupied had there been no such Change in Law resulting in such cost increase, reduction in return or other financial burden as aforesaid. Upon notification by the Concessionaire as aforesaid, the Parties shall meet as soon as reasonably practicable but no later than 30 (thirty) days and either agree on amendments to this Agreement or on alternative arrangements to implement the foregoing.

Provided that if no agreement is reached as aforesaid by the Parties within 90 (ninety) days of the meeting pursuant to this Clause 36.1, the Concessionaire may by notice in writing require NHAI to pay an amount that would put the Concessionaire in the same financial position it would have occupied had there been no such Change in Law resulting in such cost increase, reduction in

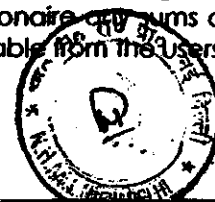
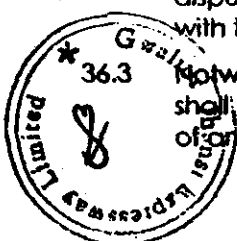
return or other financial burden as aforesaid. Such notice shall be accompanied by necessary particulars duly certified by the Statutory Auditors of the Concessionaire. NHAI shall make payment of such compensation within 15 (fifteen) days of receiving such notice or with interest @ SBI PLR if the payment thereof is delayed beyond such 15 (fifteen) days. If NHAI shall dispute the quantum of such compensation claim of the Concessionaire, the same shall be finally settled in accordance with the Dispute Resolution Procedure.

- 36.2 If as a result of Change in Law, the Concessionaire enjoys a reduction in costs or increase in net after tax return or other financial benefit, the aggregate financial effect of which exceeds RS.10 million (Rupees ten million) in any Accounting Year, NHAI may so notify the Concessionaire and propose amendments to this Agreement so as to put the Concessionaire in the same financial position as it would have occupied had there been no such Change in Law resulting in such decreased cost, increase in return or other financial benefit as aforesaid. Upon notification by the NHAI as aforesaid, the Parties shall meet as soon as reasonably practicable but no later than 30 (thirty) days and either agree on such amendments to this Agreement or on alternative arrangements to implement the foregoing.

Provided that if no agreement is reached as aforesaid by the Parties within 90 (ninety) days of the meeting pursuant to this Clause 36.2, NHAI may by notice in writing require the Concessionaire to pay an amount that would put the Concessionaire in the same financial position it would have occupied had there been no such Change in Law resulting in such decreased cost, increase in return or other financial benefit as aforesaid.

Such notice shall be accompanied by necessary particulars duly certified by the NHAI Representative. The Concessionaire shall make such payment within 15 (fifteen) days of receiving such notice or with interest @ SBI PLR if the payment is delayed beyond such 15 (fifteen) days. If the Concessionaire shall dispute such claim of NHAI, the same shall be finally settled in accordance with the Dispute Resolution Procedure.

Notwithstanding anything to the contrary contained in this Agreement, NHAI shall not be liable to reimburse to the Concessionaire any sums on account of any Change in Taxes if the same are recoverable from the Users of the



Project Highway or if the aggregate financial effect of such changes in any Accounting Year is less than or equal to Rs.10 million (Rupees ten million).

XXXVII. LIABILITY AND INDEMNITY

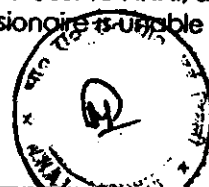
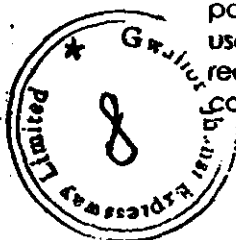
37.1 General Indemnity

- (i) The Concessionaire will indemnify, defend and hold NHAH harmless against any and all proceedings, actions and, third party claims (other than a claim by NHAH or GOI for loss, damage and expense of whatever kind and nature arising out of the design, engineering, construction, procurement, Operation and Maintenance of the Project Highway or arising out of a breach by Concessionaire of any of its obligations under this Agreement except to the extent that any such claim has arisen due to NHAH Event of Default).
- (ii) NHAH will, indemnify, defend and hold harmless the Concessionaire against any and all proceedings, actions, third party claims for loss, damage and expense of whatever kind and nature arising out of defect in title and/or the rights of NHAH in the land comprised in the Site adversely affecting the performance of the Concessionaire's obligations under this Agreement and/or arising out of acts done in discharge of their lawful functions by NHAH, its Officers, servants, agents, subsidiaries and contractors ("NHAH Indemnified Persons") including NHAH Events of Default except to the extent that any such claim has arisen due to a negligent act or omission, breach of contract or breach of statutory duty on the part of the Concessionaire, its Subsidiaries, affiliates, contractors, servants or agents including due to Concessionaire Event of Default.

37.2 Without limiting the generality of Clause 37.1 the Concessionaire shall fully indemnify, save harmless and defend NHAH including its officers, servants, agents and subsidiaries from and against any and all loss and damages arising out of or with respect to (a) failure of the Concessionaire to comply with Applicable Laws and Applicable Permits, (b) payments of taxes relating to the Concessionaire contractors, suppliers and representatives, income or other taxes required to be paid by the Concessionaire without reimbursement hereunder, or (c) non-payment of amounts due as a result of materials or services furnished to the Concessionaire or any of its Contractors which are payable by the Concessionaire or any of its contractors.

37.3 Without limiting the generality of the provisions of this Article XXXVII, the Concessionaire shall fully indemnify, save harmless and defend the NHAH indemnified Person from and against any and all damages which the NHAH Indemnified Persons may hereafter suffer, or pay by reason of any demands, claims, suits or proceedings arising out of claims of infringement of any domestic or foreign patent rights, copyrights or other intellectual property, proprietary or confidentiality rights with respect to any materials, information, design or process used by the Concessionaire or by the Concessionaire's Contractors in performing the Concessionaire's obligations or in any way

incorporated in or related to the Project. If in any such suit, claim or proceedings, a temporary restraint order or preliminary injunction is granted, the Concessionaire shall make every reasonable effort, by giving a satisfactory bond or otherwise, to secure the suspension of the injunction or restraint order. If, in any such suit claim or proceedings, the Project, or any part, thereof or comprised therein is held to constitute an infringement and its use is permanently enjoined, the Concessionaire shall promptly make every reasonable effort to secure for NHAH a licence, at no cost to NHAH, authorising continued use of the infringing work. If the Concessionaire is unable to secure

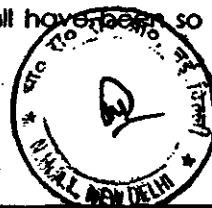


such licence within a reasonable time, the Concessionaire shall, at its own expense and without impairing the specifications and standards either replace the affected work, or part, or process thereof with non-infringing work or parts or process, or modify the same so that it becomes non-infringing.

- 37.4 In the event that either Party receives a claim from a third party in respect of which it is entitled to the benefit of an indemnity under this Article XXXVII (the 'Indemnified Party') it shall notify the other Party ('Indemnifying Party') within 14 (fourteen) days of receipt of the claim and shall not settle or pay the claim without the prior approval of the Indemnifying Party, such approval not to be unreasonably withheld or delayed. In the event that the Indemnifying Party wishes to contest or dispute the claim it may conduct the proceedings in the name of the Indemnified Party subject the Indemnified Party being secured against any costs involved to its reasonable satisfaction.

37.5 Defence of Claims

- 37.5.1 The Indemnified Party shall have the right, but not the obligation, to contest, defend and litigate any claim, action, suit or proceeding by any third party alleged or asserted against such party in respect of, resulting from, related to or arising out of any matter for which it is entitled to be indemnified hereunder and their reasonable costs and expenses shall be indemnified by the Indemnifying Party. If the Indemnifying Party acknowledges in writing its obligation to indemnify the person indemnified in respect of loss to the full extent provided by this Article XXXVII, the Indemnifying Party shall be entitled, at its option, to assume and control the defense of such claim, action, suit or proceeding liabilities, payments and obligations at its expense and through counsel of its choice provided it gives prompt notice of its intention to do so to the Indemnified Party and reimburses the Indemnified Party for the reasonable cost and expenses incurred by the Indemnified Party prior to the assumption by the Indemnifying Party of such defense. The Indemnifying Party shall not be entitled to settle or compromise any claim, action, suit or proceeding without the prior written consent of the Indemnified Party unless the Indemnifying Party provides such security to the Indemnified Party as shall be reasonably required by the Indemnified Party to secure the loss to be indemnified hereunder to the extent so compromised or settled.
- 37.5.2 If the Indemnifying Party has exercised its rights under Clause 37.4, the Indemnified Party shall not be entitled to settle or compromise any claim, action, suit or proceeding without the prior written consent of the Indemnifying Party (which consent shall not be unreasonably withheld or delayed).
- 37.5.3 If the Indemnifying Party exercises its rights under Clause 37.4 then the Indemnified Party shall nevertheless have the right to employ its own counsel and such counsel may participate in such action, but the fees and expenses of such counsel shall be at the expense of such Indemnified Party, when and as incurred, unless:
- (i) the employment of counsel by such party has been authorized in writing by the Indemnifying Party; or
 - (ii) the Indemnified Party shall have reasonably concluded that there may be a conflict of interest between the Indemnifying Party and the Indemnified Party in the conduct of the defense of such action; or
 - (iii) the Indemnifying Party shall not in fact have employed independent counsel reasonably satisfactory to the Indemnified Party to assume the defense of such action and shall have been so notified by the Indemnified Party; or



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- (iv) the Indemnified Party shall have reasonably concluded and specifically notified the Indemnifying Party either:
- a) that there may be specific defenses available to it which are different from or additional to those available to the Indemnifying Party; or
 - b) that such claim, action, suit or proceeding involves or could have a material adverse effect upon it beyond the scope of this Agreement;
- provided that if clauses (ii), (iii) or (iv) shall be applicable, counsel for the Indemnified Party shall have the right to direct the defense of such claim, action, suit or proceeding on behalf of the Indemnified Party and the reasonable fees and disbursements of such counsel shall constitute legal or other expenses hereunder.

XXXVIII. RIGHTS AND TITLE OVER THE SITE

- 38.1 The Concessionaire shall have exclusive rights to the use of the Site in accordance with the provisions of this Agreement and for this purpose it may regulate the entry and use of the Project Highway by third parties.
- 38.2 The Concessionaire shall allow access to, and use of the Site for telegraph lines, electric lines or such other public purposes as NHAI may specify. Where such access or use causes any damage to the Project Highway and consequent financial loss to the Concessionaire, it may seek compensation or damages from such user of the Site as per Applicable Laws.
- 38.3 The Concessionaire shall not be liable to pay any property taxes for the Site.
- 38.4 For the purposes of claiming tax depreciation, the property representing the capital investment made by the Concessionaire shall be deemed to be acquired and owned by the Concessionaire.
- 38.5 The Concessionaire shall not sublet the whole or any part of the Site save and except as may be expressly set forth in this Agreement provided however that nothing contained herein shall be construed or interpreted as restricting the right of the Concessionaire to appoint contractors for the performance of its obligations hereunder including for operation and maintenance of all or any part of the Project Highway including Project Facilities.

XXXVIII. DISPUTE RESOLUTION

39.1 Amicable Resolution

- a) Save where expressly stated to the contrary in this Agreement, any dispute, difference or controversy of whatever nature howsoever arising under, out of or in relation to this Agreement including incompleteness of the Project Highway between the Parties and so notified in writing by either Party to the other (the "Dispute") in the first instance shall be attempted to be resolved amicably in accordance with the conciliation procedure set forth in Sub-clause (b) below.
- b) In the event of any Dispute between the Parties, either Party may call upon the Independent Consultant to mediate and assist the Parties in arriving at an amicable settlement thereof. Failing mediation by the Independent Consultant or without the intervention of the Independent Consultant, either Party may require such Dispute to be referred to the Chairman of NHAI and the Chairman of the Board or Directors of the Concessionaire for the time being for amicable settlement. Upon such reference, the said two Authorities shall meet



not later than 7 (seven) days of the date of such request to discuss and attempt to amicably resolve the Dispute. If such meeting does not take place within the said period or the Dispute is not amicably settled within 15 (fifteen) days of such meeting between the said two Authorities, either Party may refer the dispute to arbitration in accordance with the provisions of Clause 39.2.

- c) If the Dispute is not resolved as evidenced by the signing of the written terms of settlement within 30 (thirty) working days of the aforesaid notice in writing or such longer period as may be mutually agreed by the Parties then the provisions of Clause 39.2 shall apply.

39.2 Arbitration

39.2.1 Any Dispute, which is not resolved amicably as provided in Clause 39.1 shall be finally decided by reference to arbitration by a Board of Arbitrators, appointed pursuant to Clause 39.2.2 below. Such arbitration shall be held in accordance with the Rules of Arbitration of the Indian Council of Arbitration and shall be subject to the provisions of the Arbitration Act.

39.2.2 There shall be a Board of three arbitrators of whom each party shall select one and the third arbitrator shall be appointed in accordance with the Rules of Arbitration of the Indian Council of Arbitration.

39.2.3 The arbitrators shall issue a reasoned Award.

39.2.4 The venue of such arbitration shall be New Delhi, India.

39.2.5 The Fee of Arbitrators shall be governed by NHAI's Circular no. 11041/21/2005-Admn dated 02.08.2006 (Copy enclosed at Enclosure - I)

39.3 Arbitration Awards to be Binding

39.3.1 The Concessionaire and NHAI undertake to carry out any decision or award of the arbitrators (the "Award") without delay. Awards relating to any Dispute shall be final and binding on the Parties as from the date they are made.

39.3.2 The Concessionaire and NHAI agree that an Award may be enforced against the Concessionaire and/or NHAI, as the case may be and their respective assets wherever situated.

39.3.3 This Agreement and rights and obligations of the Parties shall remain in full force and effect pending the Award in any arbitration proceeding hereunder.

XL DISCLOSURE

40.1 The Concessionaire shall make available for inspection by members of public free of charge during normal business hours on all working days copies of this Concession Agreement, the O&M Contract and the State Support Agreement (hereinafter collectively referred to as "Public Documents") at the Concessionaire's Site office during the subsistence of this Agreement. The Concessionaire shall prominently display at appropriate place, public notices about the availability of the Public Documents for inspection and shall make available upon request and payment in advance of copying charges on no profit no loss basis to members of public copies of the said Public Documents.

XLI. REDRESSAL OF PUBLIC GRIEVANCES

41.1 The Concessionaire shall maintain a public relations office at an appropriate place on the Project Highway or adjacent to each Toll Plaza, if present, and keep it open to public access at all times. At each such office, the Concessionaire shall open and maintain a register (the "Complaints Register") for recording of complaints by any person (the "Complainant") at any time of



the day. The availability of and access to such office and the Complaints Register shall be prominently displayed by the Concessionaire so as to bring it to the attention of all persons who are entering and exiting the Project Highway.

41.2 The Complaints Register shall be securely bound and kept in proper custody at the public relations office. Each page of the Register shall be duly numbered and each complaint recorded therein shall also be duly numbered. Soon after a complaint is registered the Complainant shall be given a receipt by such office stating the date and complaint number, which the Complainant may refer to in any subsequent correspondence or claim. The Complaints Register shall have appropriate columns including but not limited to the complaint number and date, name and address of the Complainant, the complaint and the action taken by the Concessionaire thereon.

41.3 The Concessionaire shall inspect the Complaints Register at reasonable intervals and take prompt steps for redressal of the grievances stated in each complaint. The action so taken by the Concessionaire shall be briefly noted in the 'Action taken' column of the Complaints Register and a suitable reply shall also be sent to the Complainant by post under a certificate of posting.

41.4 Within one week following the close of each calendar month, the Concessionaire shall send to NHAI a true photocopy of such pages of the Complaints Register on which any entries have been recorded of any Complaint on the Concessionaire during the course of such month. NHAI may in its discretion direct the Concessionaire to take such further reasonable action as NHAI may deem appropriate for a fair and just redressal of any grievance. Where NHAI is of the opinion that the Complainant is entitled to any further redressal or compensation beyond what the Concessionaire is willing to provide, NHAI may refer the matter to the Consumer Redressal Forum having jurisdiction for its disposal in accordance with the provisions of the Consumer Protection Act, 1986.

XLII. ADVERTISING ON THE SITE

42.1 This shall be governed by Applicable Laws, rules, regulations, guidelines and instructions of GOI, NHAI and Government Agency.

XLIII. GOVERNING LAW AND JURISDICTION

43.1 This Agreement shall be construed and interpreted in accordance with and governed by the laws of India and the Courts at New Delhi, India shall have jurisdiction over all matters arising out of or relating to this Agreement.

XLIV. MISCELLANEOUS

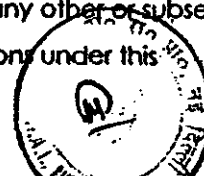
✓44.1 Video Recording

✓ During the Construction Period, the Concessionaire shall provide a video recording to NHAI every calendar quarter which will be compiled into a 3 (three) hour cassette, covering the construction of the Project Highway in that quarter. Such video recording shall be provided no later than fifteen days after the close of each quarter

44.2 Waiver

a) Waiver by either Party of any default by other Party in the observance and performance of any provision of or obligations of or under this Agreement.

(i) shall not operate or be construed as a waiver of any other or subsequent default hereof or of other provisions of or obligations under this



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Agreement;

(ii) shall not be effective unless it is in writing and executed by a duly authorized representative of the Party; and

(iii) shall not affect the validity or enforceability of this Agreement in any manner.

b) Neither the failure by either Party to insist on any occasion upon the performance of the terms, conditions and provisions of this Agreement or any obligation there under nor time or other indulgence granted by a Party to the other Party shall be treated or deemed as waiver of such breach or acceptance of any variation or the relinquishment of any such right hereunder.

44.3 Survival

Termination of this Agreement (a) shall not relieve the Concessionaire or NHAI of any obligations hereunder which expressly or by implication survives Termination hereof, and (b) except as otherwise provided in any provision of this Agreement expressly limiting the liability of either Party, shall not relieve either Party of any obligations or liabilities for loss or damage to the other Party arising out of or caused by acts or omissions of such Party prior to the effectiveness of such Termination or arising out of such termination.

All obligations surviving the cancellation, expiration or Termination of this Agreement shall only survive for a period of 5 (five) years following the date of such Termination or expiry of this Agreement.

44.4 Entire Agreement:

The Agreement and the Schedules together constitute a complete and exclusive statement of the terms of the agreement between the Parties on the subject hereof and no amendment or modification hereto shall be valid and effective unless expressly previously approved in writing by NHAI and executed by the person expressly authorized by a resolution of NHAI in this behalf.

44.5 Notices

Any notice or other communication to be given by Party to the other Party under, or in connection with the matters contemplated by this Agreement shall be in writing and shall:

a) in the case of the Concessionaire, be given by letter delivered by hand to the address given and marked for the attention of the person set out opposite the corresponding signature below or to such other address marked for such other attention as the Concessionaire may, from time to time designate by notice to NHAI, provided that notices or other communications to be given to an address outside New Delhi may (if they are subsequently confirmed by sending a copy thereof by first class registered airmail or by courier) be sent by facsimile to the number as the Concessionaire may from time to time designate by notice to NHAI; and

b) in the case of NHAI, be given by letter delivered by hand and be addressed to the Chairman, NHAI



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Copies of all notices shall also be sent by facsimile and by registered acknowledgement due pre-paid post or courier.

Copies of all notices shall also be sent to the NHAI Representative.

44.6 Severability

If for any reason whatever any provision of this Agreement is or becomes invalid, illegal or unenforceable or is declared by any court of competent jurisdiction or any other instrumentality to be invalid, illegal or unenforceable, the validity, legality or enforceability of the remaining provisions shall not be affected in any manner and the Parties will negotiate in good faith with a view to agreeing one or more provisions which may be substituted for such invalid, unenforceable or illegal provisions, as nearly as is practicable to such invalid, illegal or unenforceable provision. Failure to agree upon any such provisions shall not be subject to dispute resolution under this Agreement or otherwise.

44.7 No Partnership

Nothing contained in this Agreement shall be construed or interpreted as constituting a partnership between the Parties. Neither Party shall have any authority to bind the other in any manner whatsoever.

44.8 Language

All notices required to be given by one Party to the other Party and all other communications, documentation and proceedings which are in any way relevant to this Agreement shall be in writing and in English language.

44.9 Exclusion of Implied Warranties etc.

This Agreement expressly excludes any warranty, condition or other undertaking implied at law or by custom or otherwise arising out of any other agreement between the Parties or any representation by either Party not contained in a binding legal agreement executed by both Parties.

44.10 Counterparts

This Agreement may be executed in two counterparts, each of which when executed and delivered shall constitute an original of this Agreement.

45.1 IN WITNESS WHERE OF THE, PARTIES HAVE EXECUTED AND DELIVERED THIS AGREEMENT AS OF THE DATE FIRST ABOVE WRITTEN

SIGNED, SEALED AND DELIVERED

For and on behalf of

NATIONAL HIGHWAYS AUTHORITY OF INDIA

By:

M.P. Sharma
7/12/06
M.P. Sharma
General Manager (N-II)

(Signature)
(Name)
(Designation)
(Signature)
(Name)
(Designation)

In the presence of:

1. 7/12/06
2. 7/12

SIGNED, SEALED AND DELIVERED

For and on behalf of

GWALIOR JHANSI EXPRESSWAYS LIMITED

By:

Mohinder Singh Narula
Mohinder Singh Narula
Director

(Signature)
(Name)
(Designation)
(Signature)
(Name)
(Designation)

In the presence of:

1. 7/12/06
2. 7/12/06



दिल्ली DELHI

B 747574

रियायत करार

यह करार ^{सात} ~~3~~ (37) दिसम्बर, 2006 को

1. भारतीय राष्ट्रीय राजमार्ग प्राधिकरण, जो कि भारतीय राष्ट्रीय राजमार्ग प्राधिकरण अधिनियम, 1988 के प्रावधानों के अंतर्गत गठित एक सांविधिक निकाय है और जिसका प्रधान कार्यालय जी-5 और जी-6, सेक्टर 10, द्वारका नई दिल्ली-110075 में है (जिसे इसमें इसके पश्चात् "भारराप्रा" संदर्भित किया गया है और जिसमें जब तक इसके संदर्भ अथवा अर्थ से असंगत हो, इसके प्रशासक, उत्तराधिकारी और समनुदेशिनी शामिल हैं), एक पक्ष;

और

2. ग्वालियर झांसी एक्सप्रेसवे लिमिटेड, जो कि कंपनी अधिनियम, 1956 के प्रावधानों के अंतर्गत एक निगमित कंपनी है और जिसका पंजीकृत कार्यालय सी-66, साउथ एक्सटेंशन, पार्ट-II, नई दिल्ली-110049 में है जिसे इसमें इसके पश्चात् "रियायतग्राही" अथवा "कंपनी" संदर्भित किया गया है जिसमें जब तक इसके संदर्भ अथवा अर्थ से असंगत न हो, इसके उत्तराधिकारी और अनुमत स्थानापन्न शामिल हैं), दूसरे पक्ष के बीच किया गया।

यतः

- क. भारत सरकार के पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय, पूर्व में सड़क परिवहन और राजमार्ग मंत्रालय (जिसे इसमें इसके पश्चात् "एमओएसआरटीएच" संदर्भित किया गया है) ने उत्तर प्रदेश और मध्य प्रदेश राज्य में राष्ट्रीय राजमार्ग संख्या 75 (सारा-75) के 16.000 कि.मी. से 96.127 कि.मी. तक 80.127 कि.मी. में विद्यमान दो लेन वाले भाग को उत्तर-दक्षिण कॉरीडोर (साराविप वरण-II) के अधीन निर्माण, प्रचालन और हस्तांतरण, बीओटी वार्षिकी आधार पर रियायत के माध्यम से चार लेन में चौड़ा करने हेतु भारराप्रा को अधिकृत किया है और भारतीय राष्ट्रीय राजमार्ग प्राधिकरण अधिनियम, 1988 की धारा 11 के अनुसरण में अपनी अधिसूचना संख्या 465 (अ), तारीख 26.4.2002 द्वारा राष्ट्रीय राजमार्ग 75 के उक्त भूखंडों को भारराप्रा में निहित कर दिया है जैसा कि तारीख 26.4.2002 की उक्त अधिसूचना में उल्लिखित है।

Mohd. Saleem



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सभी नोटिसों की प्रतियां फैक्स, पंजीकृत डाक अथवा देय भुगतान के साथ डाक या कोरियर द्वारा भेजी जाएंगी। सभी नोटिसों की प्रतियां भाराराप्रा के प्रतिनिधि को भी भेजी जाएंगी।

44.6 पृथक्करण

यदि किसी भी कारण से इस करार का कोई उपबंध अमान्य, अवैध अथवा अप्रभावी हो जाता है अथवा सक्षम अधिकार क्षेत्र के किसी न्यायालय अथवा किसी अन्य करणत्व द्वारा अमान्य, अवैध अथवा अप्रभावी घोषित कर दिया जाता है, तो इससे शेष उपबंधों की मान्यता, वैधता अथवा प्रभावशीलता पर किसी प्रकार का कोई प्रभाव नहीं पड़ेगा और दोनों पक्ष सद्भावनापूर्वक एक अथवा अधिक उपबंधों जो ऐसे अमान्य, अवैध और अप्रभावी उपबंधों के स्थान पर रखे जा सकें और जो ऐसे अमान्य, अवैध और अप्रभावी उपबंधों के व्यावहारिक रूप में निकट हों, पर सहमत होने की दृष्टि से बातचीत करेंगे। ऐसे किन्हीं उपबंधों पर सहमति न बन पाने पर यह मामला इस करार अथवा अन्यथा के अधीन विवाद निपटान का विषय नहीं होगा।

44.7 साझेदारी न होना

इस करार में उल्लिखित किसी भी हिस्से का दोनों पक्षों के बीच साझेदारी के रूप में अर्थ नहीं निकाला जाएगा या व्याख्या नहीं की जाएगी। किसी भी पक्ष को किसी भी तरीके से दूसरे पक्ष को बाध्य करने का अधिकार नहीं होगा।

44.8 भाषा

एक पक्ष द्वारा दूसरे को दिए जाने वाले सभी आवश्यक नोटिस और अन्य सभी पत्राचार, दस्तावेज और प्रक्रियाएं जो किसी भी रूप में इस करार से संबद्ध हैं, लिखित रूप में और अंग्रेजी भाषा में होंगे।

44.9 अंतर्निहित वारंटी आदि हटाना

इस करार में विधि अथवा आचार अथवा अन्यथा दोनों पक्षों के बीच हुए किसी अन्य करार अथवा किसी भी पक्ष के किसी अभ्यावेदन जो कि दोनों पक्षों द्वारा निष्पादित बाध्यकारी विधिक वास्तविक नहीं है, द्वारा अंतर्निहित कोई वारंटी, शर्त अथवा अन्य वचनपत्र स्पष्ट रूप से शामिल नहीं है।

44.10 प्रतिरूप

यह करार दो प्रतिरूपों में निष्पादित किया जाएगा, जिनमें से प्रत्येक जब भी निष्पादित और सुपुर्द किया जाए, इस करार का मूल रूप माना जाएगा।

45.1 निम्नलिखित साक्षियों की उपस्थिति में दोनों पक्षों ने ऊपर लिखी तिथि को यह करार निष्पादित तथा सुपुर्द किया।

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

के लिए और की ओर से

हस्ताक्षरित, मुहरबंद और सुपुर्द किया गया
द्वारा

महमूद अली

एम. पी. शर्मा

महाप्रबंधक (एन-II)

निम्नलिखित की उपस्थिति में

1. *अ. कु. न. गांगुली*

(हस्ताक्षर)

(नाम)

(पदनाम)

(हस्ताक्षर)

(नाम)

(पदनाम)

निम्नलिखित की उपस्थिति में

1. *S. Gaurang 21/2/06*

(हस्ताक्षर)

(नाम)

(पदनाम)

(हस्ताक्षर)

(नाम)

(पदनाम)

2. *विजय रतन*

ग्वालियर झांसी एक्सप्रेसवे लिमिटेड

के लिए और की ओर से

हस्ताक्षरित, मुहरबंद और सुपुर्द किया गया
द्वारा

मोहिन्द्र सिंह नरुला
(मोहिन्द्र सिंह नरुला)

निदेशक

निम्नलिखित की उपस्थिति में

1. *S. Gaurang 21/2/06*

(हस्ताक्षर)

(नाम)

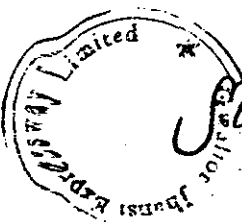
(पदनाम)

(हस्ताक्षर)

(नाम)

(पदनाम)

2. *विजय रतन*



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ENCLOSURE - I



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)
National Highways Authority of India

(Ministry of Shipping, Road Transport and Highways)

जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली-110 075

G-5 & 6, Sector-10, Dwarka, New Delhi-110075

दूरभाष / Phone: 91-11-25074100/25074200

फैक्स / Fax: 91-11-25093507 / 25093514

एक्स. / Extn.: 2223 / 2318 / 2468 / 2553

No. 11041/21/2005-Admn.

2nd August 2006

POLICY MATTERS – ADMINISTRATOIN / FINANCE [125/2006]
(Decision taken on DR & QA Cell's File No. NHA/DR & QA Cell/ARB/2005)

Sub.: Fee of Arbitrators in case of Civil Engineering Construction Contracts / Supervision Consultant.

In supercession to our Policy Circular No. 37/2003 dated 27.03.2003 and 86/2004 dated 31.05.2004, it has been decided that the maximum amount payable per Arbitrator in Arbitration cases shall be as under:-

Sr. No.	Particulars	Maximum amount payable per Arbitrator / per case
1	Arbitrator fee	Rs.8,000/- per day subject to a maximum of Rs. 2 lacs Or Rs. 1.5 lacs (lump sum) subject to publishing the Award within 12 months.
2	Reading Charges	Rs. 6,000/-
3	Secretarial Assistance	Rs. 5,000/-
4	Incidental Charges (telephone, fax, postage etc.)	Rs. 6,000/-
5	Charges for Publishing / declaration of the Award	Maximum of Rs. 10,000/-
6	Other expenses (actuals against bills subject to the prescribed ceiling) Traveling Expenses Lodging and Boarding	Maximum ceiling Economy class (by air), First class AC (by train) and AC car (by road) (a) Rs.10,000/- per day (in metro cities) (b) Rs.5,000/- per day (in other cities) (c) Rs. 2,000/- per day, if any Arbitrator makes their own arrangements.
7	Local Travel	Rs.1000/- per day
8	Extra charges for days other than hearing / meeting days (maximum for 2 days)	Rs. 2,500/- per day

2. Since the fee structure has to be agreed to by both the parties (i.e. NHA and the Contractor / Supervision Consultant), the above fee structure may also be got accepted by the respective Contractors / Supervision Consultants through supplementary agreement. It has also been decided that in exceptional cases, such as cases involving major legal implications / wider ramifications / higher financial stakes etc., a special fee structure could be fixed in consultation with the Contractor / Supervision Consultants and with the specific approval of the Chairman, NHA before appointment of the Arbitrator.



Contd.....

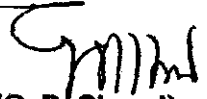
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3. A draft supplementary agreement incorporating the above provisions is enclosed as Annexure. The concerned Member / CGM may ensure that this is adhered to strictly.

4. In case of future contracts the fee structure may be included as part of the Bidding Documents / Contractor Documents and the acceptance of the above fee structure by the Contractors / Supervisions Consultants may be kept as a precondition for signing the contract.

5. This issues with the approval of Chairman.


(G. P. Chand)
General Manager (Admn.)

To :

1. PS to Chairman
2. PS/PA to All Members / CGMs/ CVO
3. All GMs/DGMs/Managers
4. All PIUs/CMUs/SPVs



SCHEDULE A
Site of the Project

SCHEDULE A
SITE OF THE PROJECT

1. GENERAL**1.1 The Site**

The Govt. of India (GoI) through Ministry of Road Transport & Highways (MORT&H) is contemplating to enhance the road capacity and safety for efficient transshipment of goods as well as passenger traffic on the heavily trafficked National Highway sections. GoI has entrusted National Highways Authority of India (NHA) with the responsibility of augmenting the capacity of highway corridors. The Project under consideration aims at developing Gwalior to Jhansi section of NH-75, located in the states of Madhya Pradesh/ Uttar Pradesh, to a four lane divided configuration along with strengthening of existing two lanes.

In order to provide a better level of service to the vehicular traffic, it has been decided to augment the capacity of the section of NH-75 from Gwalior existing km 16.00 (proposed chainage 16.00) to Jhansi existing km 6.7 (Proposed Chainage 96.127). Total proposed length is about 80.127 kms in the state of Madhya Pradesh/Uttar Pradesh, by widening the existing 2-lanes to 4-lane divided carriageway facility, including strengthening of the existing 2-lanes on Build, Operate and Transfer (BOT) basis.

Thus the construction package for the Project includes developing the existing two-lane carriageway to four-lane divided carriageway standards including strengthening of existing two-lane between existing km 16.000 (proposed chainage 16.00) and existing km 6.70 (proposed chainage 96.127). The construction package Chainage details are as follows.

		Existing Chainage (Km & m)	Proposed Chainage (Km & m)	Remarks
Construction Package Part of BOT Package	From	16.000	16.000	From Gwalior
	To	6.700 (UP State) ✓	96.127	To Jhansi
	Length	81.000 ✓	80.127 ✓	

Thus the Construction package for the Project includes the development of the Project Highway to four-lane divided carriageway standards including strengthening of existing two lane between Km 16.00 (Gwalior, proposed chainage Km 16.00) to existing Km 6.70 (Jhansi, proposed chainage Km 96.127).

The present schedule describes the features of the Project Highway pertaining to Construction package from existing km 16.00 (proposed chainage 16.00) to existing km 6.70 (proposed chainage 96.127) only and chainages mentioned in this schedule are as per existing chainages. The index plan of the construction package is shown in "Figure - 1.1C" above.



FF BOT (Annuity) NS I/BOT/MP-UP



A-1

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1.2 Disclaimer

The data presented below in this schedule is for an initial understanding and guidance of the Concessionaire. NHA will not be responsible for any inaccuracy in the information provided and shall not be liable for or be bound by the data used by Concessionaire in evaluating the Project viability. The Concessionaire will carry out his own independent surveys for assessing actual situation on the Project Highway.

The Concessionaire acknowledges that prior to the execution of this Agreement, the Concessionaire has satisfied himself (based on his own independent assessment) of the data, specifications and standards, site and all information provided by the NHA. The Concessionaire acknowledges and accepts the difficulties, risks and hazards likely to arise or that may be faced by the Concessionaire in the course of performance of his obligations herein under.

2. DESCRIPTION OF PROJECT HIGHWAY

2.1 Road Inventory

The Project highway has a two-lane carriageway 6.4-7.6m wide with varying width of earthen shoulders from 1.0- 4.0m on either side.

The project road stretch passes through Datia and Gwalior districts of M.P and Jhansi district of U.P. The UP check post is in Village Ambawai and that of M.P is at village Chirula.

The project road passes through mostly flat terrain and running through agricultural land and has several congested settlements along the ROW. However certain stretches also falls within the topography of river Chambal. The project stretch is part of river basin of two important rivers viz., Sindh and Betwa in the region.

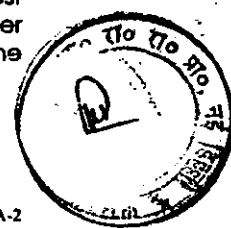
The Project Highway generally has an embankment height varying from 0.5 to 1.5m and on the bridge approaches it is as high as 12.00 m. Erosions along embankment slopes are visible at places indicating lack of maintenance.

There are nearly 115 intersections with various categories of roads along the Project Highway. Amongst them, 7 intersections are with State Highways (SH) Major District Roads (MDR) of primary importance.

2.2 Road Geometry

In general, horizontal and vertical geometry is gentle to moderate. Sharp horizontal curves and steep vertical gradients have been encountered within the first 40 km of road.

The Project Highway has several reverse curves with a low degree of curvature at some locations which are of concern. Project Highway has smooth vertical gradients for most of its length except for very few locations where they require some correction. Super elevation exists on some curves as per IRC standards, but is deficient on some. The locations of poor geometry are mentioned in the Table A-1 below:



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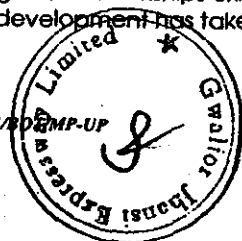
Table A-1: Locations of Poor Geometry

Sl.No.	Km from	Km to	Remarks
1	17000	17500	Multiple Curves
2	17500	18000	Multiple Curves
3	18000	18500	Multiple Curves
4	18500	19000	Multiple Curves
5	19500	20000	Multiple Curves
6	20500	21000	Multiple Curves
7	24500	25000	Sharp Curve
8	25500	26000	Multiple Curves - Straight Insufficient
9	50500	51000	Sharp and Multiple Curves
10	51000	51500	Sharp and Multiple Curves
11	53000	53500	Sharp and Multiple Curves - Realignment Preferred
12	60000	60500	Sharp and Multiple Curves
13	60500	61000	Sharp and Multiple Curves
14	67000	67500	S - Curve with Insufficient Straight
15	67500	68000	S - Curve with Insufficient Straight
16	70500	71000	Very Sharp Curve
17	71000	71500	Very Sharp Curve
18	73000	73500	Bad Vertical Curves + Sharp Curve
19	73500	74000	Bad Vertical Curves + Sharp Curve
20	75000	75500	Sharp Curves
21	77000	77500	Sharp Curves at approach to Village Ramnagar
22	18000	17500	Sharp Curve (UP Section)
23	16500	16000	Sharp Curve (UP Section)
24	15000	15300	Sharp Curve - Approches to Bridges (UP Section)
25	11000	11500	Sharp Curve - Approches to Bridges(UP Section)
26	3500	4000	Sharp Curve(UP Section)

2.3 Abutting land use

Agriculture is the predominant land use along the Project Highway. There are many settlements and ribbon developments on the Project Highway. Generally commercial and residential land use is seen in most of them.

A number of villages and townships exist along the project corridor. In many stretches of the road, ribbon development has taken place. Shops, dhabas, schools etc. have come



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up along the road and these pockets are developing into active market/commercial centers. It has been observed that traffic flow along these stretches is affected. Details of urban areas and settlements are given in Table A-2 below.

Table A-2: Settlements along the Project Highway

Sl.No.	Location or Ch.	Name of the settlement
1	22000	Zorasi
2	27000	Makhoda
3	30000	Tekanpur
4	37000	Samudar
5	46000	Dabra
6	50000	Chandpur
7	58000	Guliapura
8	60000	Upraya
9	64000	Sitapur
10	75000	Datia
11	78000	Ramnagar
12	16000 UP Section)	Ambabal
13	14000 UP Section	Pritampura
14	11000 UP Section	Karari

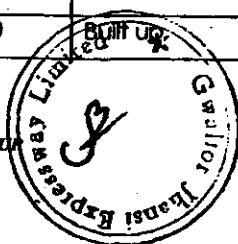
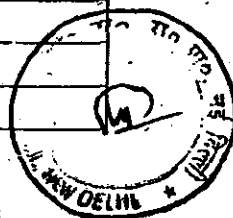
A mix of ribbon development and agricultural lands characterizes the Project Highway. The broad land use pattern along the Project Highway is given in Table A-3 below.

Table A-3: Predominant Land Use along the Project Highway

Sl. No	Starting Chainage	Ending Chainage	Predominant land Use
1	16000	17500	Cultivable Land
2	17500	19000	Bushes & Hilly area
3	19000	19500	L-Bushes & Hilly area, R-Jaurasi Ghati
4	19500	20000	Bushes & Hilly area
5	20000	21500	Bushes
6	21500	22000	L-Shopes & Temple, R-Dhaba & shops
7	22000	22500	Cultivable Land
8	22500	23000	House & Cultivable Land
9	23000	24000	Cultivable Land
10	24000	24500	L-Farm House, R-Cultivable Land
11	24500	26000	Cultivable Land
12	26000	26500	L-Dhaba & House, R- Ho. Boundry
13	26500	27000	L- NIC Insurance co., R-Cultivable land
14	27000	27500	L-Houses, R-Houses Boundry
15	27500	28000	L-Residential area, R-BSF Academy



Sl. No	Starting Chainage	Ending Chainage	Predominant land Use
16	28000	31500	BSF Campus
17	31500	32000	Cultivable Land
18	32000	32500	Shops & House
19	32500	50000	Cultivable Land
20	50000	53000	Bushes
21	53000	53500	Barren Land
22	53500	54500	Cultivable Land
23	54500	55000	L-Power House/ Home, R-Cultivable Land/ Home
24	55000	67000	Cultivable Land
25	67000	67500	Barren Land
26	67500	68000	L-Forest land, R-Barren land
27	68000	70000	Cultivable Land
28	70000	70500	L-Barren Land, R-Cultivable Land
29	70500	71000	L-Cultivable Land, R-Barren land
30	71000	71500	Barren Land
31	71500	72000	L-Wood dept. Datta, R-Forest Land
32	72000	72500	Barren Land
33	72500	73500	Cultivable Land
34	73500	74000	Barren Land
35	74000	76000	R-Cultivable Land
36	76000	76500	House/Shop/cultivable land,/Daba/ Housing colony
37	76500	78000	Cultivable land / house/shop
38	78000	82500	Cultivable /barren land
39	82500	83000	L- Temple /Gas Godown/canal, R- Barren land
40	83000	83500	Barren Land
41	83500	84000	L- houses /barren land, R- House/ Police Station / barren land
42	18000	16475	Cultivable /barren land
43	16475	13000	Ambabal village/houses/cultivated land
44	13000	12000	Cultivated land
45	12000	11500	Built up
46	11500	10500	Cultivated land
47	10500	60000	



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2.4 Drainage

At present, there are no roadside drains. The rainwater is left to find its way along natural gradients and it often stagnates on the sides of the road, especially in built up areas. The drainage facilities along the roadside are found to be very poor for the entire road stretch. The roadside drainage along the Project Highway needs improvement, predominantly in urban stretches.

2.5 Soil Characteristics

The soils in the area are primarily Red Sandy Soils and Red Loamy Soils, with poor moisture retention. Soil available is mostly of CL group (clay with low compressibility) and greyish dark soil (C1 group) that is clay with medium compressibility as per IS:1498 soil classification.

2.6 Environment and Climate

The climate of the region is marked by Hot winds and dust storms in summer and temperature dropping to around 5.1°C in winter.

The area has a tropical climate with three main seasons

Summer	: April - June
Monsoon	: June - September
Post Monsoon	: October - November
Winter	: December - March

Average Monthly Mean values of air temperature are:

Maximum Mean:	43° C (June)
Minimum Mean:	5.1° C (January)

On an average, the region receives anywhere from 750mm to 1250mm of rain fall each year. Daily temperatures also fluctuate depending on the time of the year. Peak summer (May-June) brings excessively high temperatures, often topping 43°C, as the hot, dry loo winds sweep in from the desert. During the winter months (December - February) daytime temperatures are quite pleasant reaching highs between 16.5°C and 21°C. Nighttime brings much cooler temperatures and frost has been known to occur on the coldest evenings. On an average, the region receives anywhere from 75 cm to 125 cm of rain fall each year.

2.7 Land Details

Information on available land width has been collected from local highways department, Govt. of Madhya Pradesh and Uttar Pradesh. This information revealed that in general there is a land width of 30-37m available with government for most of the length. Details of available land width is as given in Table A-4. NHA is preparing Land Acquisition proposals for acquiring a total land width of 60m along the Project Highway. However the Concessionaire shall also verify, identify and submit proposals for acquiring land in accordance with relevant Land acquisition (LA) act and pursue early accomplishment of land acquisition.

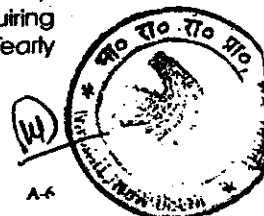


Table A-4: Details of Available Land Width (RoW)

Chainage (m)		Left (m)	Right (m)	Total ROW (m)
From	To			
16000	16200	14.00	13.30	27.30
16200	16800	13.80	14.10	27.90
16800	17000	13.10	15.00	28.10
17000	17600	15.30	15.20	30.50
17600	18200	13.90	14.00	27.90
18200	18800	15.70	14.90	30.60
18800	19000	14.15	14.15	28.30
19000	19600	13.75	13.75	27.50
19600	20000	14.20	15.40	29.60
20000	20800	15.00	15.00	30.00
20800	21200	14.00	14.00	28.00
21200	21600	13.30	14.90	28.20
21600	22400	14.70	16.50	31.20
22400	22800	14.40	13.80	28.20
22800	23000	13.00	15.10	28.10
23000	23200	15.30	14.10	29.40
23200	23600	15.30	23.00	38.30
23600	23800	16.80	22.40	39.20
23800	24200	11.20	15.60	26.80
24200	24400	16.50	11.20	27.70
24400	24600	15.00	13.00	28.00
24600	24800	16.40	14.00	30.40
24800	25000	15.40	12.60	28.00
33800	34000	14.74	17.20	31.94
34000	34200	14.20	15.00	29.20
34200	34400	15.30	16.00	31.30
34400	34600	15.80	16.30	32.10
34600	34800	14.10	14.00	28.10
34800	35000	15.70	13.60	29.30
35000	35200	17.20	13.60	30.80
35200	36600	15.80	16.10	31.90

LHS

18000
RHS
19000

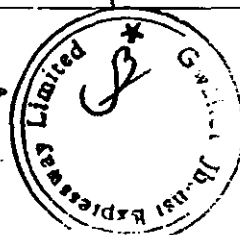
LHS

21400 (Existing 21379)
 Realignment (2015.0)
 22700 (Existing 22594)

RHS

24800 (Existing 2461)
 Bypass (Tangut)
 34800 (Existing 3424)
 Bypass (Tangut)

LHS



Chainage (m)		Left (m)	Right (m)	Total ROW (m)
From	To			
36600	37000	15.30	16.00	31.30
37000	37600	15.50	15.00	30.50
37600	38200	15.00	16.00	31.00
38200	38400	16.00	15.50	31.50
38400	38600	14.0	15.50	29.50
38600	39000	14.00	16.50	30.50
39000	39200	15.50	16.50	32.00
39200	39700	15.50	16.50	32.00
39700	40000	16.00	15.50	31.50
40000	40600	15.50	15.00	30.50
40600	41000	14.50	16.00	30.50
50300	50400	17.00	10.00	27.00
50400	51000	18.50	14.00	32.50
51000	51400	14.30	13.00	27.30
51400	51800	14.30	13.00	27.30
52000	52400	16.50	12.60	29.10
52400	52600	15.50	11.50	27.00
52600	53000	18.00	11.80	29.80
53000	53800	14.00	14.20	28.20
53800	54000	16.5	14.5	31.00
54000	54400	14.30	13.80	28.10
54400	54800	18.00	16.30	34.30
54800	55200	16.00	17.00	33.00
55200	55600	13.30	15.00	28.30
55600	56000	14.95	14.80	29.75
56000	56200	14.50	15.00	29.50
56200	56800	15.00	15.00	30.00
56800	57100	14.50	14.45	28.95
57100	57500	17.00	12.57	29.57
57500	58000	16.50	13.64	30.14
58000	58500	15.75	14.60	30.35
58500	59000	15.00	16.00	31.00

LHS
 Proposed Chainage 38150
 38150 - 38150 (04/04A)

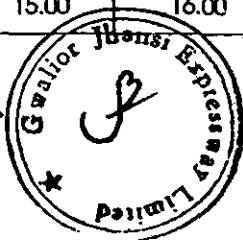
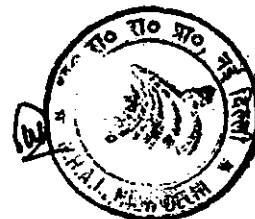
LHS

41325
 41325-48400
 C 04/04 A
 RHS
 48400-52250
 (03)
 (06) 40527 (P4250)
 to
 50400 (P52725)
 Dubwa Bypass
 # 52250-52850

* 55850
 RHS
 * 56250-54000

(04, 06, 04)

RHS



Chainage (m)		Left (m)	Right (m)	Total ROW (m)
From	To			
59000	59200	15.80	15.40	31.20
59200	59600	12.70	13.80	26.50
59600	60000	13.70	12.85	26.55
60000	60400	14.25	12.80	27.05
60400	61000	16.50	14.50	31.00
61000	61400	14.00	14.50	28.50
61400	62000	15.50	15.16	30.66
62000	62400	14.00	12.50	26.50
62400	63000	15.25	13.80	29.05
63000	63600	13.50	15.00	28.50
63600	64100	15.40	15.00	30.40
64100	64400	15.80	13.70	29.50
64400	64800	13.70	16.50	30.20
64800	65000	14.40	14.80	29.20
65000	65200	14.30	13.20	27.50
65200	65600	14.30	13.70	28.00
65600	66400	13.80	14.00	27.80
66400	66800	13.00	14.50	27.50
66800	67000	13.50	13.00	26.50
67000	67200	14.00	14.50	28.50
67200	67800	15.40	15.50	30.90
67800	68000	14.50	14.50	29.00
68000	68200	13.00	13.50	26.50
68200	69000	15.00	15.00	30.00
69000	69500	14.75	14.80	29.55
69500	70000	14.50	14.63	29.13
70000	70600	14.20	14.40	28.60
70600	70800	15.10	17.00	32.10
70800	71000	15.08	16.34	31.42
71000	71600	13.00	14.00	27.00
71600	72400	13.80	14.70	28.50
72400	72600	12.00	13.50	25.50

RHS
* 59300

(03)

* 62100
RHS
* 62900

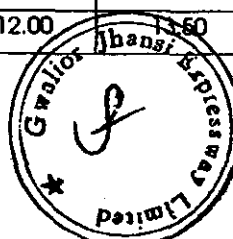
(03, 04, 06, 04)

* 65650
RHS

* 67400 (02)
* 67800
RHS
* 68800
(03)
* 69100

LHS

* 71500
* 72000
* 72200
RHS



306085

Chainage (m)		Left (m)	Right (m)	Total ROW (m)
From	To			
72600	73400	13.40	16.00	29.40
73400	73800	13.00	15.00	28.00
73800	74000	17.50	00.00	17.50
74000	74100	13.80	14.26	28.06
74100	74300	13.50	13.80	27.30
74300	74700	11.60	13.30	27.90
74700	75000	12.76	11.16	23.92
75000	75400	14.30	13.30	27.60
75400	75600	12.00	12.50	24.50
75600	75800	11.00	12.50	23.50
75800	76000	14.00	12.43	26.43
76000	76200	16.80	12.40	29.20
76200	76400	16.50	12.40	28.90
76400	76800	16.50	12.40	28.90
76800	77200	8.60	10.60	19.20
77200	77400	14.70	17.00	31.70
77400	78100	20.60	13.00	33.60
78100	78400	18.80	15.50	34.30
78400	78600	14.00	13.70	27.70
78600	79000	12.60	13.50	26.10
79000	79800	11.70	15.00	26.70
79800	80450	15.00	10.80	25.80
80450	81000	15.40	16.50	31.90
81000	81800	20.30	15.40	35.70
81800	82000	20.30	15.40	35.70
82000	83000	20.30	15.40	35.70
83000	84000	20.30	15.40	35.70
84000	85000/18000	16.00	12.00	28.00
18000	17900	16.00	12.00	28.00
17900	17700	15.25	22.00	37.25
17700	17000	15.25	22.00	37.25
17000	16100	12.50	18.00	30.50

(03, 04, 04/04A)

K-78250

RHS

K-83700

K-84850

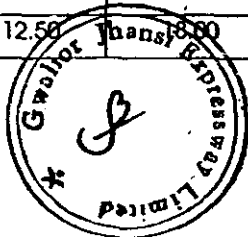
RHS

K-86200

86500 (existing 16425)

to 88300 (existing 14580)

Ambabada realigned



Chainage (m)		Left (m)	Right (m)	Total ROW (m)
From	To			
16100	16300	12.50	18.00	30.50
14400	13800	11.00	9.00	20.00
13800	12900	5.00	15.00	20.00
12900	12000	10.00	17.00	27.00
12000	10200	10.00	17.00	27.00

2.8 Traffic

Classified mid block traffic volume counts were recorded in January-2004 at three locations along the Project Highway. Table A-5 presents the observed traffic volume by locations. (chainages).

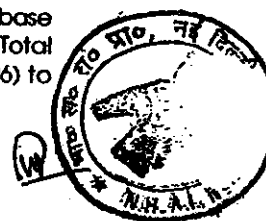
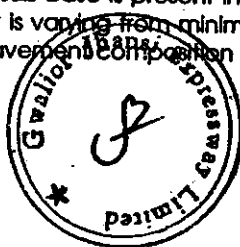
Table A-5: ADT by Homogeneous Sections

Mode	Madhya Pradesh			Uttar Pradesh
	Km 10.2	Km 47.6	Km 76.5	Km 9.7
Two wheelers	2104	1044	1281	1578
Three Wheelers	88	06	80	223
Cars	1256	798	337	633
Tempos	329	171	605	625
Buses	368	138	160	228
Trucks	1105	881	644	1255
Agricultural Tractors	224	581	137	124
Others (Non-motorized, Slow Moving)	1230	1232	1803	1117
TOTAL VEHICLES	6712	4856	5075	5792
TOTAL PCU	8266	7388	5821	7942

Source: Primary survey, January 2004

2.9 Pavement Compositions and Condition

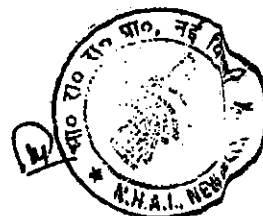
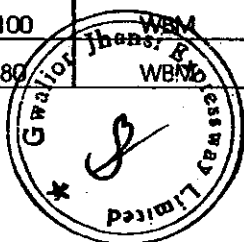
Pavement is mainly composed of a bituminous top layer, Water Bound Macadam base over subgrade. At few places sub-base is present in the form of granular material. Total thickness of existing pavement is varying from minimum 90mm (from km 16 to km 96) to maximum 500mm. Details of pavement composition is presented in Table A-6 below:



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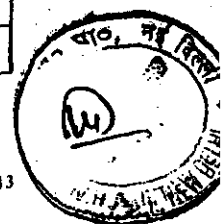
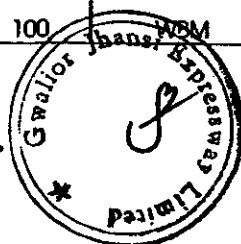
Table A-6: Pavement Composition along the Project Highway

Section KM	Left/Right	Surfacing		Base		Sub base		Total
		Type	Thickness (mm)	Type	Thickness (mm)	Type	Thickness (mm)	
16	R	Bituminous	50	WBM	80	GSB	90	220
17	L	Bituminous	60	WBM	100	"	170	330
18	R	Bituminous	75	WBM	100	-		175
19	L	Bituminous	90	Stone/ Bricks of Bigger Sizes		Boulder		90
20	R	Bituminous	120	Stone/ Bricks of Bigger Sizes		"		120
21	L	Bituminous	50	WBM	110	GSB	120	280
22	R	Bituminous	50	WBM	120	"	135	305
23	L	Bituminous	100	WBM	100	"	100	300
24	R	Bituminous	85	WBM	80	"	90	255
25	L	Bituminous	80	WBM	110	"	120	310
26	R	Bituminous	40	WBM	80	"	160	280
27	L	Bituminous	100	WBM	120	"	160	380
28	R	Bituminous	50	WBM	90	"	100	240
29	L	Bituminous	70	WBM	90	"	100	260
30	R	Bituminous	50	WBM	90	"	220	360
31	L	Bituminous	50	WBM	100	"	100	250
32	R	Bituminous	50	WBM	90	"	110	250
33	L	Bituminous	70	WBM	90	Boulder	150	310
34	R	Bituminous	130	WBM	110	-		240
35	L	Bituminous	110	WBM	90	-		200
36	R	Bituminous	130	WBM	80	Boulder	100	310
37	L	Bituminous	120	WBM	80	"	120	320
38	R	Bituminous	120	WBM	100	-		220
39	L	Bituminous	195	WBM	100	-		295
40	R	Bituminous	110	WBM	120	Boulder	130	360
41	L	Bituminous	100	WBM	100	"	100	300
42	R	Bituminous	80	WBM	170	"	135	385



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Section KM	Left/Right	Surfacing		Base		Sub base		Total
		Type	Thickness (mm)	Type	Thickness (mm)	Type	Thickness (mm)	
43	L	Bituminous	130	WBM	160	GSB	150	440
44	R	Bituminous	95	WBM	105	"	100	300
45	L	Bituminous	95	WBM	145	-		240
46	R	Bituminous	70	WBM	90	GSB	150	310
47	L	Bituminous	50	WBM	100	Boulder	200	350
48	R	Bituminous	70	WBM	100	GSB	150	320
49	L	Bituminous	80	WBM	100	Coarse Sand	170	350
50	R	Bituminous	50	WBM	80	Boulder	100	230
51	L	Bituminous	50	WBM	80	"	100	230
52	R	Bituminous	80	WBM	165	-		245
53	L	Bituminous	70	WBM	170	-		240
54	R	Bituminous	50	WBM	50	-		100
55	L	Bituminous	40	WBM	180	Coarse Sand	110	330
56	L	Bituminous	100	WBM	140	-		240
57	R	Bituminous	80	WBM	140	-		220
58	L	Bituminous	60	WBM	160	Coarse Sand	100	320
59	R	Bituminous	100	WBM	100	-		200
						Boulder / Coarse Sand		
60	L	Bituminous	60	WBM	100		340	500
61	R	Bituminous	80	WBM	100	Boulder	130	310
						Boulder / Coarse Sand		
62	L	Bituminous	70	WBM	120		290	480
63	L	Bituminous	70	WBM	140	GSB	110	320
64	R	Bituminous	80	WBM	145	Coarse Sand	105	330
65	L	Bituminous	90	WBM	140	"	165	395
66	R	Bituminous	100	WBM	100	GSB	135	335



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Section KM	Left/Right	Surfacing		Base		Sub base		Total
		Type	Thickness (mm)	Type	Thickness (mm)	Type	Thickness (mm)	
67	L	Bituminous	120			.	130	250
68	R	Bituminous	135	WBM	115	.	100	350
69	L	Bituminous	160	WBM	75	Boulder	150	385
70	L	Bituminous	110	WBM	70	.	120	300
71	R	Bituminous	30	WBM	120	.	150	300
72	L	Bituminous	32	WBM	110	.	148	290
73	R	Bituminous	100	WBM	100	GSB	100	300
74	L	Bituminous	100	WBM	120	.	160	380
75	R	Bituminous	70			.	125	195
76	L	Bituminous	100	WBM	100	.	110	310
77	L	Bituminous	60	WBM	100	.	140	300
78	R	Bituminous	50	WBM	120	.	130	300
79	R	Bituminous	80	WBM	115	Boulder	135	330
80	L	Bituminous	80	WBM	80	.	140	300
81	R	Bituminous	50	WBM	90	GSB	125	265
82	L	Bituminous	65	WBM	55	.	135	255
83	R	Bituminous	70	WBM	65	Boulder	160	295
84	L	Bituminous	70	WBM	60	.	160	290
18	R	Bituminous	45	WBM	100	.	145	290
17	L	Bituminous	30	WBM	160	.	145	335
16	R	Bituminous	30	WBM	100	.	140	270
15	L	Bituminous	30	WBM	135	-		165
14	R	Bituminous	65	WBM	100	Boulder	135	300
13	L	Bituminous	35	WBM	160	.		195
12	R	Bituminous	25	WBM	100	.	100	225
11	L	Bituminous	80	WBM	100	.	180	360
10	R	Bituminous	30	WBM	100	.	130	260
9	L	Bituminous		WBM	80	.	130	240



300090

Section KM	Left/Right	Surfacing		Base		Sub base		Total
		Type	Thickness (mm)	Type	Thickness (mm)	Type	Thickness (mm)	
8	R	Bituminous	60	WBM	100	"	135	295
7	L	Bituminous	70	WBM	150	"	150	370

Table A-7: Pavement Composition Variation along the Project Highway

Roadway Stretch					
From Km	To Km	Bituminous Courses (mm)	WBM (mm)	Granular Sub Base (mm)	Total thickness (mm)
16	96	25-200	50-180	90-340	90-500

The overall condition of the pavement as observed from visual condition surveys is depicted in Table A-8 below.

Table A-8: Pavement Distress along the Project Highway

Range of Distress	Length in Kilometer		
	Total Cracking % Area	Area Patching %	Raveling % Area
>50 %	0	0	0
30 - 50%	2.7	0	0
15 - 30%	22.7	1.4	0
5 - 15%	58.7	4.2	0
0 - 5%	16.0	94.4	100

The overall condition of the pavement is fair to good. Cracking is the predominant distress along the Project Highway. The Project Highway has a good pavement riding quality with only 11 km of its length has IRI more than 4, which is less than 15% of the total length of Project Highway. Details of riding quality as measured in February 2004 are indicated in Table A-9 below:

Table A-9: Roughness values along the Project Highway

Roughness (IRI) Range	Length in Kilometer
2-3 IRI	56.5
3-4 IRI	28.0
4-5 IRI	11.0
5-6 IRI	0.0
Total Length	95.5

2.10 Existing Cross Drainage Structures

There are total 121 cross-drainage structures on the Project Highway. Out of these, 3 nos. are Major Bridges (Total length > 60.0 m), 22 nos. are Minor Bridges (6.0 m < Total Length <



60.0m) and the remaining 112nos. structures are slab, arch and pipe culverts. The summary of the cross-drainage structures is given in Table A-10 below:

Table A-10: Summary of the cross-drainage structures

Sl.No.	Type of Structure	Total No. of Cross-Drainage Structures
1	Major Bridges	03
2	Minor Bridges	19
3	Culverts	99
	Total no. of Structure	121

Major and Minor Bridges in this stretch are very old stone/brick masonry type arch structures, their condition is poor and they need replacement, except a few RCC bridges.

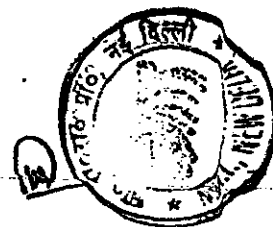
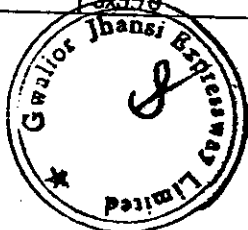
The details of major bridges are given in Table A-11 and the details of minor bridges are given in Table A-12 below.

Table A-11: Details of Major Bridges

S. No	Existing Bridge No.	Chainage (m)	Existing Bridge Span Arrangement
1	B 55/1 (Sindh Bridge)	54294.000	11 x 28.75m+ 2x 15.0m c/c
2	B 84/8 (Charula)	83667.000	7x10.7 c/c (9.15 clear)
3	B 10/1(Pahuj)	93782.000	7x12.00 c/c (10.3clear)

Table A-12: Details of Minor Bridges

S. No	Existing Bridge No.	Chainage (m)	Existing Bridge Span Arrangement
1	B 17/4	16.400	2x3
2	B19/10	18.990	1x9.2Esq 7.85 clear
3	B 27/2	26.200	1x12.20
4	B 28/2	27.200	3x2.15
5	B 30/8	29.800	5x3.05
6	B 31/10	30.900	1x9.00
7	B 45/2	44.200	6x4.00
8	B 53/6	52.600	1x9.50
9	B 61/2	60.200	3.00+6.15+3.00
10	B 65/2	64.200	3x9.20
11	B 66/4	63.400	3.05+4.60+3.05
12	B 70/6	69.600	2x3.10
13	B 71/4	70.400	2x3.05
14	B 76/4	75.400	3x3.75
15	B 83/8	82.800	2x7.30 (esq)6.80(straight)
16	B 19/1	18.300	3x9.70



S. No	Existing Bridge No.	Chainage (m)	Existing Bridge Span Arrangement
17	B 16/3	15.780	3x6
18	B 15/3	14.950	3x3.80
	B 15/2	14.875	1.10+1.85+1.85+1.85+1.10

Culverts in this stretch are very old stone/brick masonry/arch structure, their condition is poor and need replacement.

3. EXISTING FACILITIES

A number of bus stops and bus shelters exist along the Project Highway. Also, a number of dhabas, petrol pumps, vehicle repair shops, telephone booths etc. have come up along the Project Highway. The details of Bus Stops are given in Table A-13

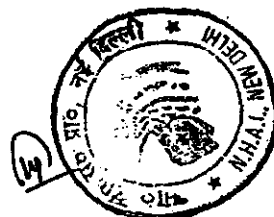
Table A-13 : Details of Bus Stops

Chainage km/m	Village	Distance from C/L of Road (m)	
		Left	Right
16+700	Addupura	7.00 m	-
17+500	Jaurasi Ghatti		5.300
24+100	Bailua		6.100
26+700	Makora		8.800
28+500	BSF Bus Stand Tekanpur		5.400
31+700	BSF Bus Stand Tekanpur		6.300
44+700	Bus stand Dabra		5.900
40+100	Dabra Near peters school		5.500
50+700	Chandpura		7.800
56+900	Kotra		4.30 m
70/300	Baroni Mode		11 m
UP SECTION			
14/400	Hathanpur	7.000	
12/250	Korari	8.400	
16/450	Ambabai	10 m	
8/100	Simardha	9.800	

The details of Petrol Pumps are given in Table A-14

Table A-14 : Details of Petrol Pumps

Chainage km/m	Distance from C/L of Road (m)			
	Petrol Pumps		Hotels	
	Left	Right	Left	Right
17+00			12.1	
21+900				11.50
21+900				11.40
22+00				20.60
22+00				9.70



Chainage km/m	Distance from C/L of Road (m)			
	Petrol Pumps		Hotels	
	Left	Right	Left	Right
24+200				14.10
24+800			17.00	
24+700				18.30
24+800				19.20
25+900				18.00
26+400			16.10	
31+800		BSF petrol pump		
33+800	15.50			
33+700			16.60	
42+700				19.00
44+500	10.50			
44+400		20.50		
44+600			18.50	
45+900	19.20			
46+400			19.50	19.00
46+600				18.60
49+200				19.00
66/700			14.00 m	
69/00			12.50 m	
77/200			16.80 m	
77/900				13.5 m
75/300	17 m			13.6 m
75/800				11.5 m
76/400				12.6 m
UP SECTION				
16/000			20.00	
14/600		10.00		
8/150			18.75	



SCHEDULE B
Scope of the Project

SCHEDULE B

SCOPE OF THE PROJECT

1. GENERAL

Apart from the scope of the work of the Project Highway pertaining to construction package from Gwallor (existing km 16.00) (proposed chainage 16.00) to Jhansi (existing km 6.70) (proposed chainage 96.127) the following scope of work shall be considered as part of this BOT package.

The Concessionaire shall strengthen the existing 2-lane section of NH-75 from km 16.000 to km 6.70 (proposed Chainage 96.127) as per the details described in Clause 7.3 of the present Schedule and shall follow the specifications and standards mentioned in Schedule D.

The Concessionaire shall do the value addition for improving safety by providing traffic safety items and include road furniture from km 16.000 to km 6.70 (proposed Chainage 96.127) as per specifications and standards mentioned in Schedule D, Schedule L, Schedule I, and Schedule J.

Apart from this the Concessionaire shall maintain the different elements of Project Highway and facilities thereon as per the minimum maintenance requirements described in Schedule L.

In addition to the above, the following sections of this Schedule briefly highlight the scope of the work of the Project Highway pertaining to construction package from km 16.000 to km 6.700 (proposed Chainage 96.127) for the information of the Concessionaire. The description of the requirements for the various elements of the Project Highway given herein under are the bare minimum that the Concessionaire needs to undertake/provide for improvement of the same.

The designs for different Project facilities shall follow the locations and indicative designs given in Schedule C and shall comply with design, specifications and standards outlined in Schedule D. The maintenance of the different elements of Project Highway and facilities thereon shall follow the minimum maintenance requirements as described in Schedule L. The Independent Consultant prior to execution shall review all the designs and drawings.

2. REQUIREMENT DURING CONSTRUCTION

In the planning, design and execution of the works and other works in connection with the repair, maintenance or improvement of the Project Highway and functions associated with the construction of the Project Highway and roadside facilities, the Concessionaire shall take all such actions and do all such things (including, but not limiting to, organizing itself, adopting measures and standards, executing procedures, including inspection procedures and highway patrols, and engaging and managing contractors, agents and employees) as will:

- a. enable the NHA to provide an acceptably safe highway in respect of its condition (structural safety) and use (road safety)
- b. enable the NHA to fulfil its statutory and common law obligations

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B-1

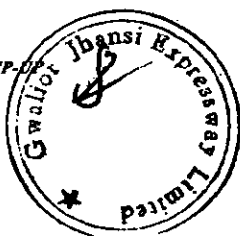


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- c. enable the NHAI to provide a congestion free uninterrupted flow of traffic on the Project Highway
- d. enable the NHAI to provide a level of highway service to the public not inferior to that provided on the trunk road during construction or improvement works
- e. enable the police, local authorities, and others with statutory duties or functions in relation to the Project Highway or adjoining roads to fulfill those duties and functions
- f. minimize the occurrence and adverse effects of accidents and ensure that all accidents and emergencies are responded to as quickly as possible
- g. minimize the risk of damage, destruction or disturbance to third party property
- h. ensure that members of the public are treated with all due courtesy and consideration
- i. provide a safe, clear and informative system of road signs
- j. comply with any specified programme requirements, including the completion of the new road
- k. enable standards of reliability, durability, accessibility, maintainability, quality control and assurance, and fitness for purpose appropriate to a highway of the character of the Project Highway to be achieved throughout the Contract Period
- l. ensure adequate off-street parking facilities for both passenger and goods vehicles
- m. provide adequate bus bays for stopping of buses and bus shelters for commuters to wait under protection
- n. achieve a high standard in the appearance and aesthetic quality of the Project Highway and achieve integration of the Project Highway with the character of the surrounding landscape through both sensitive design and sensitive management of all visible elements including those on the existing road.
- o. undertake proper safety audit through an appropriate consultant (i.e. apart from the Independent Consultant) before C.O.D.
- p. carry out accident recording and reporting (to IC/NHAI) by type of accident on regular basis.
- q. ensure adequate safety of the Project Workers on the work site.

3. Cross Sections

The Project Highway shall be widened to have a 4 lane divided carriageway facility. Table B-1a and B-1b. indicates the location of different types of road cross sections, which shall



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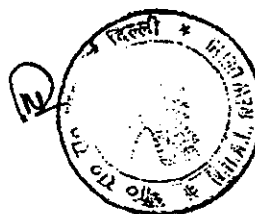
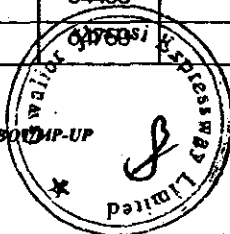
be followed along with the minimum construction criterion, mentioned below for the development of the Project Highway.

Table B-1a: Cross Section Type and Widening Scheme along the Project Highway

S. No.	Proposed Chainage		Length (In m)	C/S Type	Widening Option
	From	To			
1	16000	18000	2000	01	LSH Widening
2	18000	19000	1000	02	RHS Widening
3	19000	21400	2400	02	LSH Widening
4	21400	22700	1300	03	
5	22700	25000	2300	01	RHS Widening
6	25000	32300	7300	03	
7	32300	33500	1200	04/04A	
8	33500	34700	1200	03	
9	34700	38150	3450	01	LHS Widening
10	38150	39000	850	04/04A	
11	39000	41325	2325	01	LHS Widening
12	41325	48000	6675	04/04A	
13	48000	52550	4550	03	
14	52550	52850	300	01	RHS Widening
15	52850	54850	2000	06	
16	54850	55850	1000	06	
17	55850	56250	400	01	RHS Widening

Table B-1b: Cross Section Type and Widening Scheme along the Project Highway

S. No.	Proposed Chainage		Length (In m)	C/S Type	Widening Option
	From	To			
1	54000	54150	150	04	
2	54150	54950	800	06	
3	54950	55200	350	04	
4	55200	59300	4100	01	RHS Widening
5	59300	62100	2800	03	
6	62100	62900	700	01	RHS widening
7	62900	64450	1550	03	
8	64450	64700	300	04	



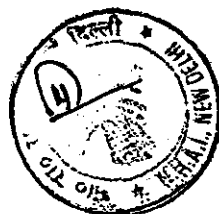
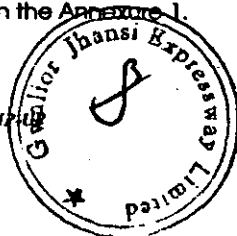
S. No.	Proposed Chainage		Length (In m)	C/S Type	Widening Option
	From	To			
9	64750	65500	750	06	
10	65500	65650	150	04	
11	65650	67400	1750	01	RHS widening
12	67400	67800	400	03	
13	67800	68800	1000	01	RHS widening
14	68800	69100	300	03	
15	69100	71500	2400	01	LHS widening
16	71500	72000	500	03	
17	72000	72200	200	01	RHS widening
18	72200	74500	2300	03	
19	74500	75350	850	04	
20	75350	78250	2900	04/04A	
21	78250	83700	5450	01	RHS widening
22	83700	84500	800	04	
23	84500	86200	1700	01	RHS widening
24	86200	91700	5500	04/04A	
25	91700	95000	3300	01	RHS widening
26	95000	96127	1127	03	

Figures B-1 to B-08 present the typical cross sections that shall be followed for the improvement of Project Highway.

The utility services, including fibre optic cables, shall be provided in the utility corridor on the side where it is convenient to the Concessionaire or the concerned Authority with the approval of Independent Consultant/ NHA. In urban sections the utility services shall be provided through underground ducts to be provided for this purpose. For cross connection utility services shall be carried through the nearest cross drainage structure/ cattle crossing below its deck slab and above HFL. In absence of such a structure in the vicinity of the proposed location, it shall pass through separate underground ducts. Location and design of the cross utility ducts shall be finalized at the detailed design stage in consultation with the Independent Consultant and NHA.

4. Geometric Standards

The DPR consultants have already finalized the Horizontal and Vertical alignment. The Concessionaire shall follow these alignments as minimum requirement. A copy of finalized alignment is provided in the Annexure 1.



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The flat gradients shall be corrected in such a way so as to attain an appropriate longitudinal gradient in order to achieve longitudinal drainage. Also, vertical curves shall be improved/ introduced so that the vertical curves meet IRC 73-1980 standards.

The horizontal alignment along the Project Highway shall be improved as per the standards set out in Schedule D. Kinks in the horizontal alignment shall be eliminated

5. Service Roads

Table B-2 presents the details of proposed Service Roads and Slip Roads.

Table B-2: Details of Service Roads and Slip Roads *

Sl. No.	Side	Location	Proposed Chainage		Width (m)	Length (m)	Paved Area	Remarks
			From	To				
1	Both	Takanpur	32330	33470	7.00	1170	16380	MP state
2	Both	Samudan	38200	39110	7.00	910	12740	MP state
3	Both	Dabra	41480	47960	7.00	6480	90720	MP state
4	Both	Road leading to Indergarh	54000	55300	7.00	1300	18200	MP state
5	Both	Sonaglr	64430	65670	7.00	1240	17360	MP state
6	Both	Datia	74510	78302	7.00	3792	53088	MP state
7	Both	Gangari	83710	84528	7.00	818	11452	MP& UP state
8	Both	Ambabal	86148	91670	7.00	5522	77308	UP state

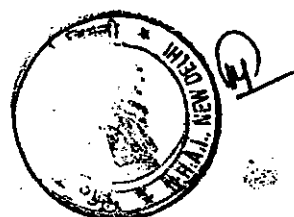
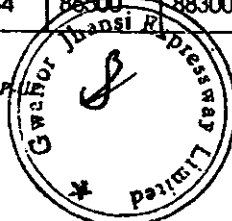
It is to be noted that the service road details given in Table B-2 are minimum required. For any additional service roads if required shall be finalized in consultation with Independent Engineer during execution.

6. BYPASS CANDIDATES

The Project Highway presently bypasses the town of Zorasi, Takenpur, Dabra and Ambabal. There are several other urban areas and ribbon developments along the Project Highway. The details of the locations where bypasses may be required are given in Table B-3 below.

Table B-3: Details of Locations where Bypass may be required

Sl.No.	Existing Chainage		Proposed Chainage		Total Length	Side	Village Name	Remarks
	From	To	From	To				
1	21379	22594	21400	22700	1300	RHS	Zorasi	Realignment, MP
2	24684	32980	24800	34800	10000	RHS	Takenpur	Bypass, MP
3	40527	50400	42500	52725	10225	LHS	Dabar	Bypass, MP
4	16425	14584	86500	88300	1800	LHS	Ambabal	Realignment, UP



7. Pavement

7.1 General

In case of flexible pavements, the detailed pavement design including overlay and pavement characteristics requirements of the Project Highway and that of the service roads in Urban Sections shall be in accordance with Tables B-4, B-5 and B-6 and Clause 7.4. Pavement shall be either flexible or rigid for new two lanes, paved shoulders, service roads, truck lay bays, bus bays and for cross roads up to ROW limits and invariably Rigid at Toll Plaza Location. In case of rigid pavements, the pavement composition shall be as given in clause 7.6.

7.2 Pavement Composition for New Construction/ Reconstruction

The minimum composition of the new flexible pavement shall be as shown in Table B-4 below for sub-grade strength of 7% CBR (4-day soaked value) at 97% Modified Proctor Density. The indicated pavement composition is for the purpose of bidding only. Any additional thickness in the design over that indicated in the bidding documents shall not constitute a change in scope of work, nor qualify for a variation order.

Table B-4: Pavement Composition for New Construction/Reconstruction from km.16 to km.56 (existing km.54)

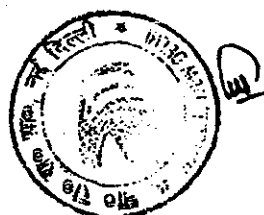
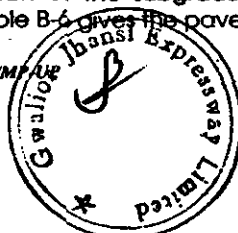
Designation of the Pavement Layer	Layer Thickness in mm
Bituminous Concrete (BC/AC)	50
Dense Bituminous Macadam (DBM)	140
Wet Mix Macadam (WMM)	250
Granular Sub-base (GSB)	230
Selected Subgrade (7% CBR)	500

Table B-5: Pavement Composition for New Construction/Reconstruction, from km.56 (existing km.54) to 96 (existing km 6.700 in UP State)

Designation of the Pavement Layer	Layer Thickness in mm
Bituminous Concrete (BC/AC)	50
Dense Bituminous Macadam (DBM)	130
Wet Mix Macadam (WMM)	250
Granular Sub-base (GSB)	230
Selected Subgrade (7% CBR)	500

Ghat Section

Ghat section starts at Km 19 and ends at Km 20. In this section of road, rock cutting will be required for additional two lanes. Due to presence of rock very hard stratum is found under existing pavement. CBR of the subgrade varies from 22-23%. Using a CBR of 10% for purpose of design, Table B-6 gives the pavement details.



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Table B-6: Pavement Composition for Ghat Section

Designation of the Pavement Layer	Layer Thickness in mm
Bituminous Concrete (BC/AC)	50
Dense Bituminous Macadam (DBM)	120
Wet Mix Macadam (WMM)	200
Granular Sub-base (GSB)	250
Selected Subgrade (7% CBR) 500	500

7.3 Strengthening of Existing Pavement

Strengthening of the existing flexible pavement shall not be less than 50mm Bituminous Concrete (BC) and 100mm Dense Bituminous Macadam (DBM) over the profile corrective course. If the required thickness is more than 150 mm, PCC can be laid with both granular and bituminous layer by completely removing the existing bituminous layers. No grooving and furrowing technique shall be adopted for laying granular layer on bituminous layers.

If the Concessionaire desires to use geo synthetics, geo nets etc as part of strengthening of the existing carriageway, the same shall be finalized in consultation with IC before execution of work. The above-prescribed minimum thickness for overlay shall be laid even with such special provisions.

The composition of profile corrective course shall be as follows.

- If the level difference between the underside of total overlay thickness and existing centre line level is: Up to 150 mm - PCC is by DBM
- More than 150 mm and up to 300 mm - Dismantle the existing bituminous course and provide WMM as PCC
- More than 300 mm and up to 500 mm- Dismantle the existing bituminous course and 250mm WMM + Remaining with GSB (min. 100mm) as PCC
- More than 500 mm and up to 1600 mm - Reconstruction with new carriageway pavement thickness with dismantling of existing pavement to requisite depth
- More than 1600mm- Reconstruction with new carriageway pavement thickness without dismantling the existing bituminous course.

7.4 Paved Shoulder composition

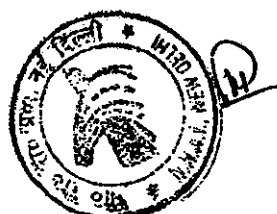
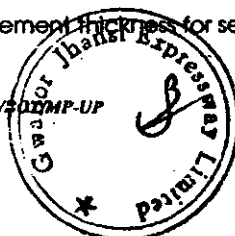
The paved shoulder shall be designed as an integral part of the pavement for the main carriageway. Therefore the total pavement thickness in the paved shoulder would be the same as in the carriageway

7.5 Service Road/ Slip Road Pavement Composition

The minimum pavement thickness for service roads and for slip roads shall be as follows:

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Table B-7: Pavement Composition for Service Roads/Slip Roads

Designation of the Pavement Layer	Layer Thickness in mm
Semi Dense Bituminous Concrete (SDBC)	25
Bituminous Macadam (BM)	75
Wet Mix Macadam (WMM)	250
Granular Sub-base (GSB)	180

7.6 Rigid Pavement

The suggested pavement composition of the Rigid Pavement for toll plaza shall be as under for a subgrade of 7% CBR value with an effective K-value of $K = 4.2 \text{ Kg/cm}^2/\text{cm}$ for a design life of 20 years.

300 mm Pavement Quality Concrete (PQC-M-40)

150 mm Dry Lean Concrete (DLC)

150 mm Granular Sub-base (GSB)-Drainage Layer

500 mm Select Subgrade material (7% CBR at 97% MDD)

7.7 Joints

Expansion & Contraction joints shall be provided in the Rigid Pavement.

8. Intersections

The major intersections as mentioned in Table B-8 and minor junctions/ intersections as mentioned in Table B-9 shall be designed individually in accordance with standards mentioned in Schedule-D. Typical drawings given in Figure B-9 to B-14 shall be followed for reference purposes only.

The Concessionaire in consultation with the Independent Consultant on the Project Highway shall decide treatment at additional intersections.

Table B-8: Improvement Measures for Major Junctions/ Intersections

Sl.No.	Category	Type	Side	Proposed Chainage	Side road Leading to	Remarks
1	Major	Y	Left	43200	Pichhore / Ratangarh	ODR
2	Major	X	Right	45000	Bhitwarwar / Dabra	MDR
3	Major	T	Left	50800	Chandpur	ODR
4	Major	T	Left	54000	Indergarh	MDR
5	Major	T	Right	65000	Sonagir	
6	Major	Y	Left	68800	Datia Town	
7	Major	X	Right	75800	Left=Dinara/Sikandara Right=Indergarh/Bhander / Seondha	SH 19



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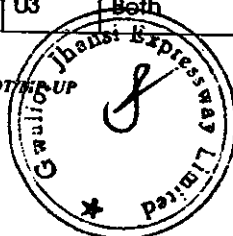
ODR = Other District Road; MDR = Major District Road, SH = State Highway

Table B-9: Details of Minor Junctions/ Intersections

Sl.No	Category	Type	Side	Proposed Chainage
1	Minor	01	Left	16700
2	Minor	05	Left	15532
3	Minor	05	Left	20911
4	Minor	05	Right	22591
5	Minor	05	Right	23128
6	Minor	05	Left	23173
7	Minor	04	Both	24290
8	Minor	04	Both	27253
9	Minor	04	Both	27670
10	Minor	05	Left	29919
11	Minor	04	Both	31389
12	Minor	05	Both	33290
13	Minor	05	Both	32266
14	Minor	05	Both	33828
15	Minor	05	Both	35038
16	Minor	05	Both	35880
17	Minor	05	Both	36746
18	Minor	05	Both	37077
19	Minor	05	Both	38413
20	Minor	02	Both	38548
21	Minor	06	Right	39385
22	Minor	05	Both	39936
23	Minor	01	Right	40348
24	Minor	06	Both	41858
25	Minor	03	Both	43567
26	Minor	03	Both	44150
27	Minor	03	Both	44669
28	Minor	03	Both	46960
29	Minor	05	Both	47788
30	Minor	03	Both	48231

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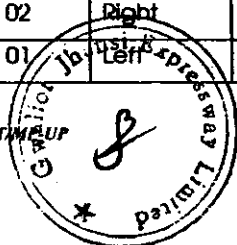


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Sl.No	Category	Type	Side	Proposed Chainage
31	Minor	03	Both	49072
32	Minor	03	Both	49490
33	Minor	05	Both	50271
34	Minor	05	Both	50612
35	Minor	05	Both	51380
36	Minor	03	Both	51623
37	Minor	05	Left	53098
38	Minor	01	Right	54452
39	Minor	05	Right	54547
40	Minor	05	Left	54589
41	Minor	05	Left	55135
42	Minor	02	Right	56023
43	Minor	05	Left	57101
44	Minor	02	Right	57247
45	Minor	02	Right	57385
46	Minor	05	Right	57709
47	Minor	01	Left	57712
48	Minor	05	Right	58039
49	Minor	05	Right	58462
50	Minor	05	Left	59673
51	Minor	03	Left	60189
52	Minor	05	Both	60775
53	Minor	05	Both	61804
54	Minor	05	Left	62086
55	Minor	05	Right	63334
56	Minor	03	Both	63709
57	Minor	05	Left	64525
58	Minor	05	Right	64596
59	Minor	05	Left	65115
60	Minor	01	Right	65182
61	Minor	01	Right	65501
62	Minor	02	Right	66810
63	Minor	01	Left	67297

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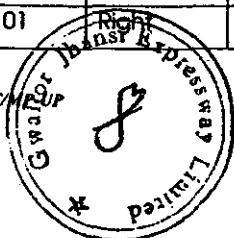
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Sl.No	Category	Type	Side	Proposed Chainage
64	Minor	01	Right	67417
65	Minor	01	Right	67697
66	Minor	01	Right	68110
67	Minor	05	Left	68900
68	Minor	04	Both	69430
69	Minor	05	Left	69508
70	Minor	05	Right	70329
71	Minor	05	Right	71766
72	Minor	05	Right	72747
73	Minor	01	Left	72978
74	Minor	05	Left	73248
75	Minor	05	Right	73308
76	Minor	01	Right	73710
77	Minor	01	Left	73836
78	Minor	05	Left	74766
79	Minor	01	Left	75171
80	Minor	05	Both	75886
81	Minor	05	Both	76000
82	Minor	05	Left	77857
83	Minor	01	Left	78205
84	Minor	05	Both	79632
85	Minor	05	Right	81250
86	Minor	05	Left	81388
87	Minor	01	Left	82284
88	Minor	05	Right	82810
89	Minor	05	Left	82967
90	Minor	05	Both	84202
91	Minor	05	Right	86666
92	Minor	03	Both	87221
93	Minor	05	Both	87542
94	Minor	01	Left	88173
95	Minor	01	Left	89236
96	Minor	01	Right	89450

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B-II



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Sl.No	Category	Type	Side	Proposed Chainage
97	Minor	05	Left	90812
98	Minor	01	Right	90930
99	Minor	05	Left	92228
100	Minor	05	Right	92933
101	Minor	05	Left	94002
102	Minor	05	Right	94681
103	Minor	05	Left	94843
104	Minor	05	Right	95062
105	Minor	05	Right	95974

Note: Proposed chainages as given in the above table are just indicative for bidding purposes only.

The Concessionaire shall take up 'Detailed Engineering Study' to ascertain further details of all intersections based on conceptual designs as suggested above. The treatment at the intersections shall be in accordance with the latest IRC/ MORT&H guidelines spelt out in Schedule D.

9. Structures

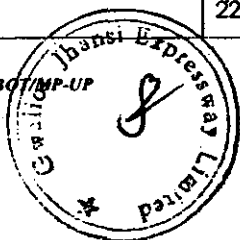
As mentioned in Schedule A there are 134 cross-drainage structures consisting of 3 major bridges, 22 minor bridges and 113 culverts. In addition to the above, 7 Grade Separators and 1 Flyover has been planned. Fig. Nos. B-15 to B-47 provides the GADs and Cross-Sections of all the above structures, excluding the box culverts. All the cross-drainage structures and other structures shall be designed in accordance with the design standards set in Schedule D. All the structures for the new carriageway shall be designed for 6 lane capacity with 12 m outer to outer width per three lanes.

Cross sectional elements for structures shall follow the drawings mentioned in figures B-11 to B-47. All the cross-drainage structures and other structures shall be designed in accordance with the design standards set in Schedule D. All the cross drainage structures for the new carriageway shall be designed for 6 lane capacity with 24m outer to outer width. The existing structures shall be widened to match the new road cross sections as required and approved by the IC/ NHAI.

The detailed design for rehabilitation shall be as per standards mentioned in Schedule D. These measures for existing CD structures shall be finalized in consultation with IC at the time of execution.

Table B-10: Summary of Structures of the Project

Type of structures	New Construction
Major Bridge	03
Minor Bridge	22



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Culverts Slab/Arch	113
Grade Separator (1x 25.00)	7
Fly Over (1x35 + 2x 25)	1
Total	146

9.1 Major bridges

There shall be three new major bridges Table B-11 presents the Indicative details of major bridge to be constructed (intending Concessionaire to refer to the drawings provided in the Annexure).

Table B-11: Details of proposed Major Bridges.

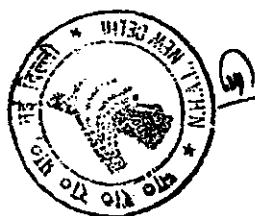
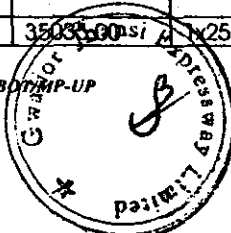
S. No.	Proposed Bridge No.	Location	Proposed Bridge Span Arrangement (No x span length in m)	Figure Reference	No. of Lanes
1	B 55/1 (Sindh Bridge)	54300.00	12 x 28.65+ 1 x 15.0m	B-15	New 2 Lane
2	B 84/1 (Charula)	83667.00 0	3 x 28.65m	B-16	New 4 Lane
3	B 94/1 (Pahuja)	93782.00 0	3 x 28.65m	B-17	New 4 Lane

9.2 Minor Bridges

There are a total 21 Minor Bridges on proposed alignment. The indicative details of minor bridges are given in the Table-B-9 below (intending Concessionaire to refer to the drawings provided in the Annexure).

Table B-12: Details of Proposed Minor Bridges

S.No	Proposed Bridge No.	Chainage (m)	Proposed Bridge Span Arrangement (No x span length in m)	Type of Structure	Figure Reference
1	B 17/1	16263.00	1x8.0m	New Four-Lane Bridge	B-18
2	B19/1	18960.00	1x12.0m	New Four-Lane Bridge	B-19
3	B 27/1	26490.00	1x18.0m	New Four-Lane Bridge	B-20
4	B 31/1	30883.00	1x25.0m	New Four-Lane Bridge	B-21
5	B 31/2	3096300	1x12 m	New Four-Lane Bridge	B-22
6	B 32/1	31885.00	1x25.0m	New Four-Lane Bridge	B-23
7	B 34/1	33275.00	1x25.0m	New Four-Lane Bridge	B-24
8	B 36/1	35035.00	1x25.0m	New Four-Lane Bridge	B-25



S.No	Proposed Bridge No.	Chainage (m)	Proposed Bridge Span Arrangement (No x span length in m)	Type of Structure	Figure Reference
				Lane Bridge	
9	B 48/1	47540.00	3x15.0m	New Four-Lane Bridge	B-26
10	B 50/1	49072.00	1x18.0m	New Four-Lane Bridge	B-27
11	B 54/1	53650.00	1x15.0m	New Four-Lane Bridge	B-28
12	B 61/1	60469.000	2 x 15.0 m	New Four-Lane Bridge	B-29
13	B 65/1	64060.000	2x18.0 m	New Four-Lane Bridge	B-30
14	B 66/1	65338.500	1x18.0m	New Four-Lane Bridge	B-31
15	B 70/1	69557.000	1x8.0m	New Four-Lane Bridge	B-32
16	B 71/1	70434.400	1x8.0m	New Four-Lane Bridge	B-33
17	B 76/1	75281.500	1x15.0 m	New Four-Lane Bridge	B-34
18	B 83/1	82845.000	1x42.0 m	New Two-Lane Bridge	B-35
19	B 85/1	84557.500	1 x 25.0 m	New Four-Lane Bridge	B-36
20	B 88/1	87815.00	2 x 15.0 m	New Four-Lane Bridge	B-37
21	B 91/1	90588.000	1 x 20 m	New Four-Lane Bridge	B-38
22	B 94/2	93992.000	1 x 15.0 m	New Four-Lane Bridge	B-39

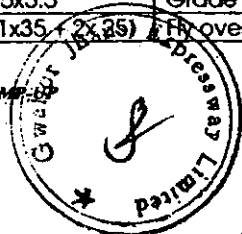
Also additionally at chainage 47540.00 there will be two nos. 2 lane bridges of 3 x 15.0 m span on service Roads.

9.3 Proposed Major Structures

There are 6 proposed grade separators and one proposed (Flyover) for 4lane carriageway. The Table B-13 gives the details.

Table- B-13: Details of Proposed Flyovers/ Grade-Separators

S.No.	Proposed Chainage	Span Arrangement	Remarks	Figure Reference	No. of Lanes
1	32830.00	10.5x5.5	Grade Separator	B-40	New 4 Lane
2	38487.00	10.5x5.5	Grade Separator	B-41	New 4 Lane
3	43379.00	1x25	Grade Separator	B-42	New 4 Lane
4	47443.00	1x25	Grade Separator	B-43	New 4 Lane
5	54460.00	25x5.5	Grade Separator	B-44 Gora Ghat	New 2 Lane
6	65180.00	25x5.5	Grade Separator	B-45 Sona Giri	New 2 Lane
7	75845.00	(1x35 + 2x25)	Flyover	B-46	New 4 Lane



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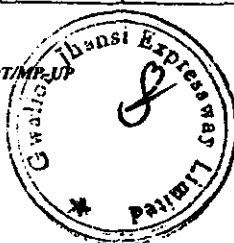
8	90875.00	10.5x5.5	Grade Separator	B-47	New 4 Lane
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9.4 Culverts

All the slab and box culverts shall be constructed for the full roadway width as per IRC standards. Table B-14 presents the details of new construction scheme that shall be adopted for existing slab/ arch culverts.

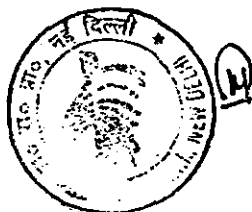
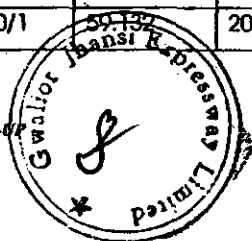
Table B-14: Details of Proposed Box culverts

Sl.No.	Proposed ST.No.	Existing ST.No.	Chainage (km & m)	Bottom Level (m)	Clear Size of Box (LxH) m
1	C17/1	C17/8	16.643	233.572	4.2x6.0
2	C18/1	C18/6	17.430	238.504	2.9x4.0
3	C18/2	C18/8	17.626	246.954	2.0x2.0
4	C18/3	C18/4	17.993	241.270	2.2x2.0
5	C19/1	C19/4	18.224	242.020	3.5x4.0
6	C19/2	C19/8	18.659	248.076	3.0x3.0
7	C20/1	C20/2	19.126	257.430	4.2x4.0
8	C20/2	C20/4	19.505	268.270	3.8x3.0
9	C21/1	C21/8	20.730	267.820	2.0x2.0
10	C22/1	C22/2	21.207	263.260	2.0x2.0
11	C22/2	C22/6	21.630	260.260	2.0x2.0
12	C23/1	C23/6	22.500	256.810	2.0x2.0
13	C23/2	C23/8	22.688	256.996	2.0x2.0
14	C24/1	C23/10	23.191	256.480	2.0x2.0
15	C25/1	-	24.900	247.100	2.0x2.0
16	C26/1	-	25.783	236.700	5.0x5.0
17	C27/1	-	26.230	243.302	2.0x2.0
18	C27/2	-	26.593	244.444	2.0x2.0
19	C28/1	-	27.350	242.211	2.0x2.0
20	C29/1	-	28.915	238.477	2.2x3.0
21	C30/1	-	29.112	238.953	2.0x2.0
22	C32/1	-	31.515	237.720	3.0x4.0
23	C35/1	-	34.670	229.088	2.0x2.0
24	C35/2	C33/2	34.704	229.540	2.0x2.0
25	C36/1	C34/2	35.785	227.235	2.0x2.0
26	C37/1	C35/1	36.210	226.953	2.0x2.0
27	C37/2	C36/1	36.986	226.006	2.0x2.0



90017

Sl.No.	Proposed ST.No.	Existing ST.No.	Chainage (km & m)	Bottom Level (m)	Clear Size of Box (LxH) m
28	C38/1	-	37.067	226.675	2.0x2.0
29	C39/1	C37/1	38.772	221.206	2.0x2.0
30	C40/1	C38/1	39.690	218.467	2.0x2.0
31	C41/1	-	40.244	217.360	2.0x2.0
32	C41/2	-	40.776	216.065	2.0x2.0
33	C42/1	C40/1	41.040	215.520	2.0x2.0
34	C42/2	-	41.856	217.823	2.0x2.0
35	C42/3	C41/2	41.917	217.372	2.0x2.0
36	C43/1	C41/3	42.438	213.200	2.0x2.0
37	C43/2	C41/4	42.702	212.323	2.0x2.0
38	C44/1	-	43.499	216.722	2.0x2.0
39	C46/1	-	45.248	210.066	2.0x2.0
40	C46/2	-	45.750	207.437	2.0x2.0
41	C47/1	-	46.800	206.958	2.0x2.0
42	C49/1	-	48.130	201.305	4.4x4.0
43	C49/2	-	48.675	206.289	2.0x2.0
44	C50/1	-	47.072	206.400	5.0x5.0
45	C51/1	-	50.115	198.559	4.3x4.0
46	C51/2	-	50.398	201.248	4.0x3.0
47	C53/1	-	52.165	196.461	4.5x4.0
48	C53/2	-	52.367	198.560	2.8x3.0
49	C54/1	C52/1	53.600	187.000	3.7x3.0
50	C55/1 (a)	-	54.055	190.000	5.0x6.0
51	C55/2 (b)	-	54.812	185.718	5.0x6.0
52	C56/1 (c)	-	55.362	194.453	2.9x3.0
53	C57/1 (d)	-	56.000	200.441	4.0x4.0
54	C55/1 (i)	-	54.055	203.307	2.0x2.0
55	C55/2 (ii)	-	54.812	205.648	2.0x2.0
56	C56/1 (iii)	-	53.362	202.671	2.0x2.0
57	C57/1 (iv)	-	56.000	203.179	2.0x2.0
58	C58/1	C58/1	57.625	201.244	6.0x3.5
59	C60/1	C60/1	59.132	202.218	3.0x2.0



300110

Sl.No.	Proposed ST.No.	Existing ST.No.	Chainage (km & m)	Bottom Level (m)	Clear Size of Box (LxH) m
60	C60/2	C60/2	59.684	201.869	6.0x2.8
61	C61/1	C61/1	60.054	203.538	3.0x2.0
62	C61/2	C61/6	60.540	201.104	3.0x3.0
63	C63/1	C63/1	62.500	201.347	6.0x3.0
64	C64/1	C64/1	63.400	203.635	2.0x2.5
65	C64/2	-	63.961	199.588	6.0x6.0
66	C65/1	C65/6	64.570	204.552	2.0x2.0
67	C66/1	C65/10	65.117	206.977	2.0x2.0
68	C67/1	C66/2	66.042	207.313	2.0x2.0
69	C67/2	C67/1	66.337	207.270	2.0x2.0
70	C67/3	C67/2	66.746	207.637	5.0x3.0
71	C68/1	-	67.090	211.414	2.0x2.0
72	C68/2	C68/1	67.560	215.611	2.0x2.0
73	C68/3	C68/2	67.880	215.510	3.0x4.0
74	C69/1	C69/10	68.930	220.484	2.0x2.0
75	C72/1	C72/2	71.190	234.530	4.0x2.0
76	C73/1	-	72.046	237.530	3.0x3.0
77	C73/2	C72/10	72.114	236.804	3.0x4.0
78	C73/3	C72/2	72.281	237.400	3.0x3.0
79	C73/4	C73/4	72.386	237.706	3.0x3.0
80	C73/5	C73/8	72.863	241.041	3.0x2.5
81	C74/1	C74/2	73.197	240.210	4.0x6.0
82	C74/2	C74/4	73.422	244.297	3.0x3.0
83	C74/3	C74/6	73.576	245.153	3.0x2.5
84	C74/4	C74/8	73.683	242.968	4.0x5.0
85	C75/1	C75/2	74.107	242.462	4.0x4.0
86	C75/2	C75/4	74.344	248.837	3.0x2.5
87	C75/3	C75/6	74.453	247.712	4.0x5.0
88	C76/1	C76/2	75.070	254.666	2.0x2.0
89	C77/1	C77/10	76.847	255.901	5.0x3.0
90	C79/1	C79/2	78.085	251.282	2.0x2.0
91	C79/2	C79/2	78.185	249.960	2.0x2.0

RFP BOT (Annuity) NS I/BOT/MP-UP



B-17



300111

Sl.No.	Proposed ST.No.	Existing ST.No.	Chainage (km & m)	Bottom Level (m)	Clear Size of Box (LxH) m
92	C79/3	C79/6	78.505	248.580	3.0x3.0
93	C79/4	C79/10	78.980	246.937	3.0x4.0
94	C80/1	C80/4	79.397	251.220	3.0x2.5
95	C81/1	C81/8	80.750	245.465	2.0x2.0
96	C84/1	C84/6	83.492	228.352	3.0x4.0
97	C85/1	C85/4	84.244	229.524	3.0x3.0
98	C86/1	C18/1	85.755	235.400	3.0x2.5
99	C87/1	C17/2	86.241	239.927	2.0x2.0
100	C87/2	C17/1	86.605	237.732	3.0x2.5
101	C88/1	C16/1	87.266	236.010	2.0x2.0
102	C89/1	C15/1	88.287	234.850	2.0x2.0
103	C90/1	C14/1	89.409	239.264	2.0x2.0
104	C91/1	C13/2	90.035	238.730	3.0x3.0
105	C92/1	C12/2	91.709	231.078	2.0x2.0
106	C92/2	C12/1	91.375	233.110	2.0x2.0
107	C92/3	C11/2	91.927	233.605	3.0x3.0
108	C93/1	C11/1	92.107	232.474	3.0x3.0
109	C95/1	C9/1	94.171	226.686	2.0x2.0
110	C95/2	C8/3	94.998	234.205	2.0x2.0
111	C96/1	C8/2	95.155	233.336	2.0x2.0
112	C96/2	C8/1	95.530	233.419	2.0x2.0
113	C96/3	-	95.775	233.365	2.0x2.0

Cross-drainage structures as per the site requirements and as approved by the IC shall also be provided for the proposed service roads.

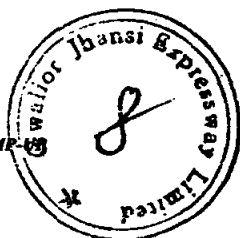
9.6 Typical Cross Sections for structures

Figure – B-15 to B-47 provide the typical cross section of structures

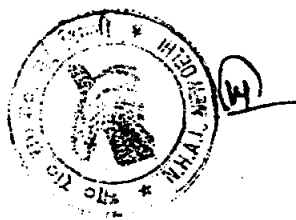
10.0 Road Drainage and Slope Protection

The improvements in the drainage and the slope erosion shall be made as per the following norms:

RFP BOT (Annuity) NS I/BOT/ME-09



B-18



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10.1 Road Drainage

Roadside drainage shall be provided all along the highway corridor. These roadside drains need to discharge at appropriate outfalls. The detailed roadside drainage design has to be undertaken by the concessionaire and got approved by the Independent Engineer. Following measures shall be adopted for roadside drainage.

- Side ditches of required cross-section for area drainage on both sides of carriageway in rural sections. Typical cross section of roadside drainage is provided in Figure B-25.
- Chute drains along with shoulder drains in high embankment (3m and above). Typical cross section of chute drain and spilling basin is provided in Figure B-25.
- Median drains at super elevated sections with proper outfall connections. Typical cross section of chute drain and spilling basin is provided in Figure B-25; and

Additional number of culverts required for betterment of drainage shall be provided in consultation with IC prior to execution of work. Hume pipe culverts shall be provided at the location of cross road, i.e. at intersections / service road, to allow the drain water flow. The numbers and location be finalized in consultation with IC at the time of execution.

10.2 Slope Protection Measures

Slope protection in the form stone pitching and turfing shall be provided on the embankment slopes. The pitching shall be provided for embankment heights greater than 3m and turfing in the form of local grass and bushes has been provided for the remaining embankment height lower than 3m.

10.3 Earth Retaining Structures

A minimum length of 9,600 m of earth retaining structures shall be provided.

11. Traffic Signage and Pavement Markings

11.1 Pavement Markings

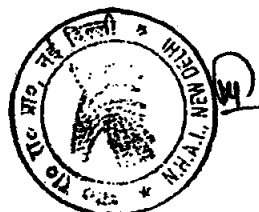
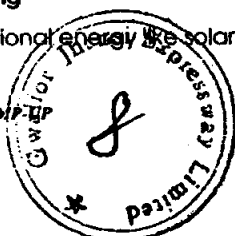
Traffic signs and pavement markings shall include roadside signs, overhead signs, kerb mounted signs and road markings along the Project Highway. The design and marking for the Project Highway shall be as per the design standards indicated in Schedule D and the locations for various treatments shall be finalized in consultation with the Independent Consultant.

11.2 Traffic signage

All signs shall be the reflectorized type with high intensity retro-reflective sheeting of encapsulated type. The height, lateral clearance, location and installation shall be as per relevant clauses of MOST specifications. Overhead signs shall be installed ahead of major intersections, toll plazas and urban areas as per detailed design requirement.

12. Highway Lighting

- Non-conventional energy like solar lighting system shall be provided at all major



300113

intersections as per the design standards indicated in Schedule D.

- High mast lightings shall be provided at toll plaza locations and at major intersection as per the design standards indicated in Schedule D.
- The design of lighting system on the Project Highway for different locations shall be as per the design standards indicated in Schedule D.

13. Speed Breaker on Side Roads

Speed Breakers shall be provided on all side roads intersecting the Project Highway as per the design standards indicated in Schedule D.

14. LED

LEDs shall be provided at intersections and median openings as per the design standards indicated in Schedule D.

15. Blinker at Intersection

Blinkers signal shall be provide at all major intersections as per the design standards indicated in Schedule D.

16. Delineators and Guard Posts

Delineators and Guard Posts shall be provided at all Horizontal curves on either side of the carriageway as per the design standards indicated in Schedule D.

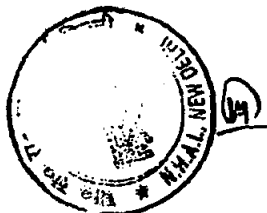
17. Studs

Road studs shall be provided at all curves on both carriageways, at median openings and at intersections as per the design standards spelt out in Schedule D.

18. Pedestrian Guard Rail and Safety Barrier

Pedestrian Guard Rail and Safety Barrier shall be provided, observing the following criterion:

- i) Pedestrian guardrail shall be provided at places where pedestrian activity is high and bus bays mentioned in Schedule-C.
- ii) Safety barriers shall be provided at locations of bridge approaches and high embankments (3m and more)
- iii) Safety barrier shall be provided along the central median at places where median width is 1.5m and also in the lengths where median tapers from 5.0 m to 1.5 m.
- iv) Safety barriers shall be provided at bridge approaches as prescribed in Schedule D.
- v) Safety barriers shall also be provided at sharp horizontal curves as per the design standards and specifications spelt out in Schedule D.



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19. Road Land Boundary

Proposed Road Land boundary or Right of Way (RoW) shall be demarcated on the Project Highway. For this purpose nail wires and angle posts shall be used in rural section and poles and chain shall be used in urban section. All the components used in delineating road land boundary shall be aesthetically pleasing, sturdy and vandal-proof. A system for the identification of chainages along the Project Highway shall be done in consultation with Independent Consultant.

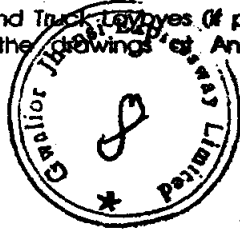
20. Rain Water Harvesting System along the Project Road

The Concessionaire shall design and construct a sound rain water harvesting system along the Project Road as per guidelines given in the CPWD Specifications on Rain Water Harvesting and Conservation and as approved by the IC/ NHA.

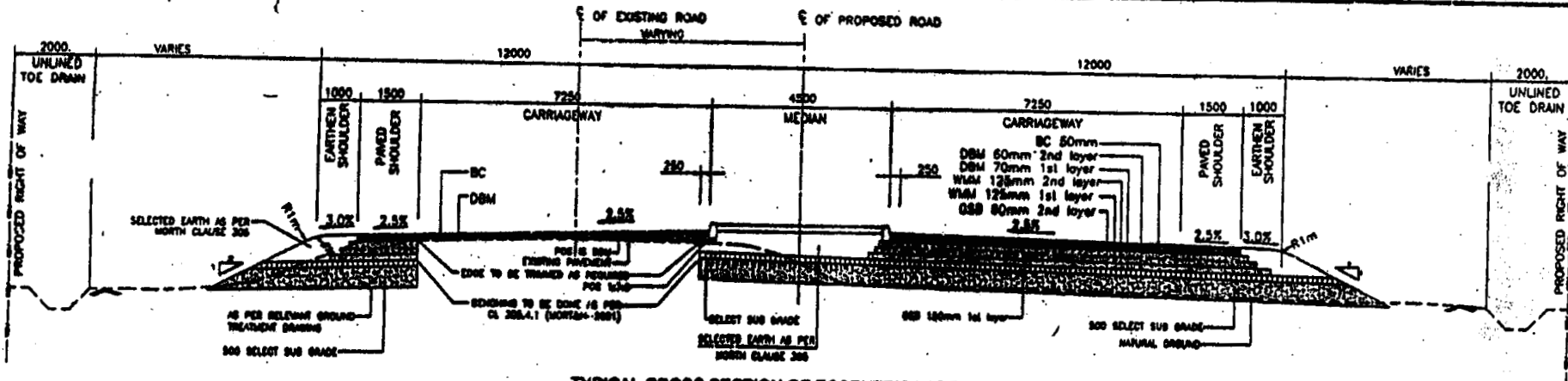
Minimum requirements for rain water harvesting system shall be construction of parallel recharge trenches on both the sides of the Project Highway at suitable distances from the proposed road boundary and construction of recharge shafts/ wells at 500m intervals on either side in staggered manner.

21. Truck Laybys/Bus Bays

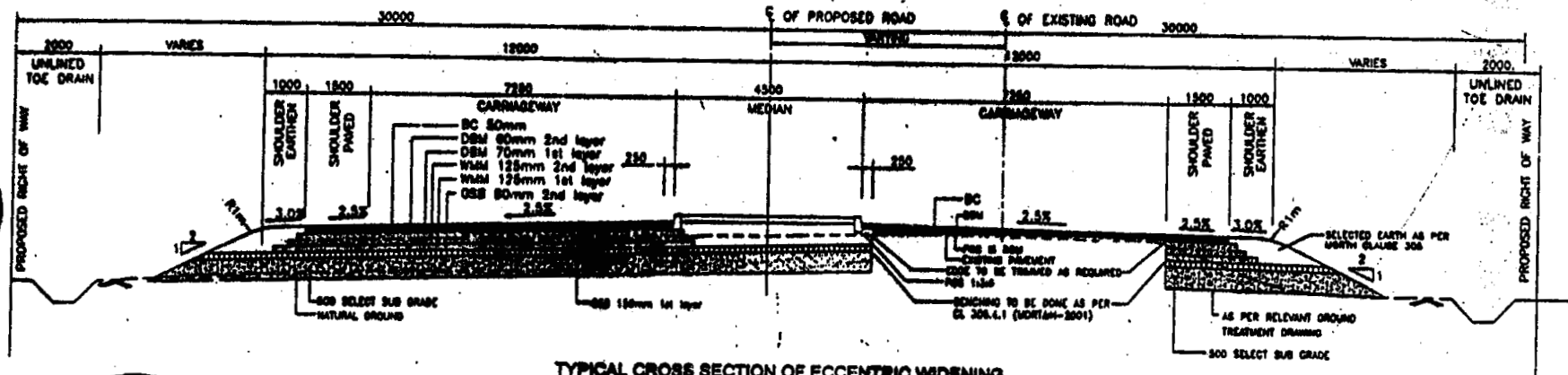
Bus Bays and Truck Laybys (if previously planned) shall be provided at all locations as shown in the drawings of Annexure I, in consultation with the NHA/Independent Consultant.



0001



**TYPICAL CROSS SECTION OF ECCENTRIC WIDENING
PROPOSED ALONG RURAL STRETCHES
TYPE -01-LHS (EXISTING ROAD LHS)**



**TYPICAL CROSS SECTION OF ECCENTRIC WIDENING
PROPOSED ALONG RURAL STRETCHES
TYPE -01-RHS (EXISTING ROAD RHS)**

NOTE:-

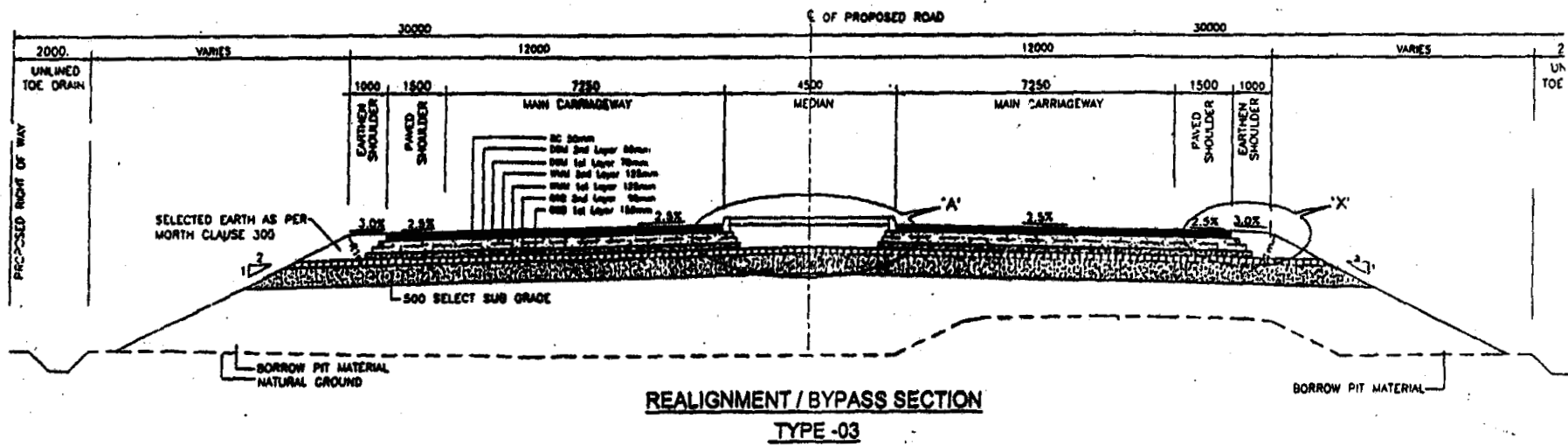
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2. FOR DETAILS OF DRAIN AND ITS TYPE REFER RELEVANT DRAINAGE DRAWING.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH PLAN & PROFILE AND CROSS SECTION DRAWINGS OF DIFFERENT CHANNAGES FOR RELEVANT INFORMATION.

DESIGNER PA Engineers & Management Associates 10th Floor, Building No. 10, 1st Cross Road Sector-10, Connaught Place, New Delhi-110028		SCALE 		MATERIAL ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED		NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport & Highways)		SHEET NO. ANHAWH-NH75/Pkg-C/ TCS-01	
PROJECT TYPICAL CROSS SECTION OF TYPE -01 (LHS & RHS)		DATE November 2001		DESIGNED SANKU GUPTA		CHECKED S. SODHANI		APPROVED DR. CHOWDHURY	

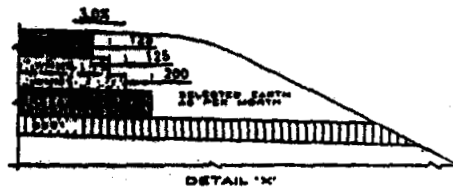
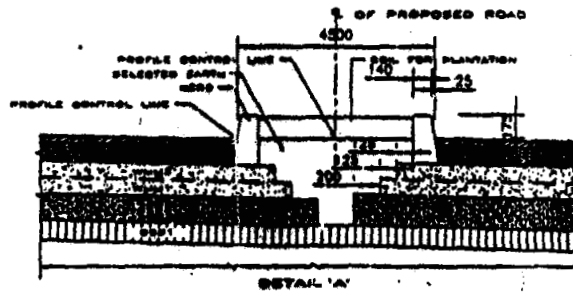


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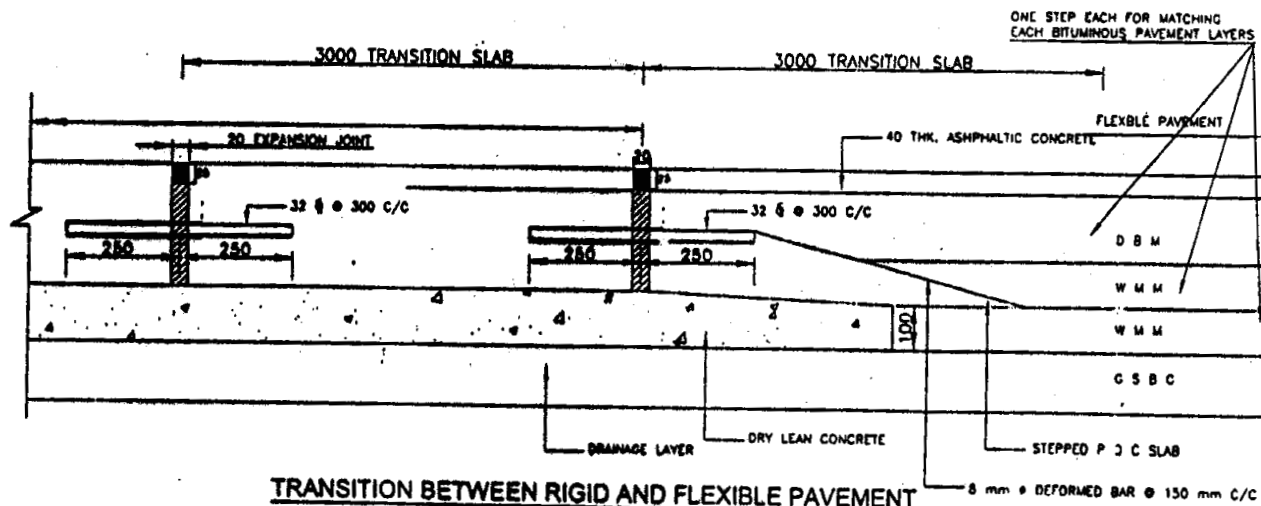
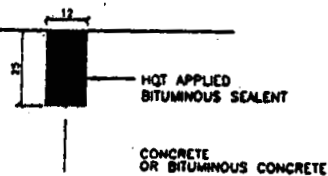
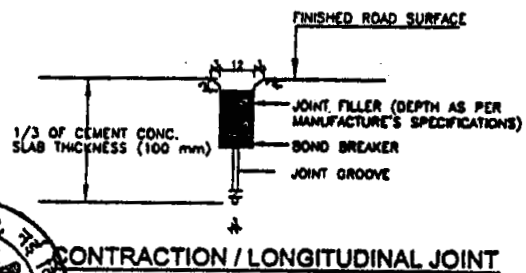
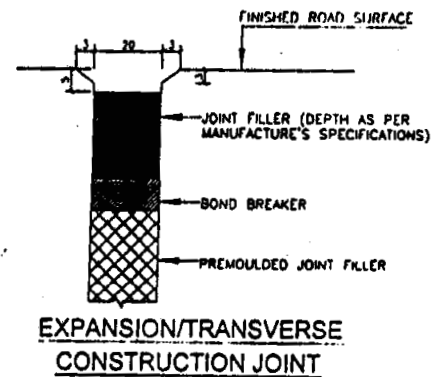
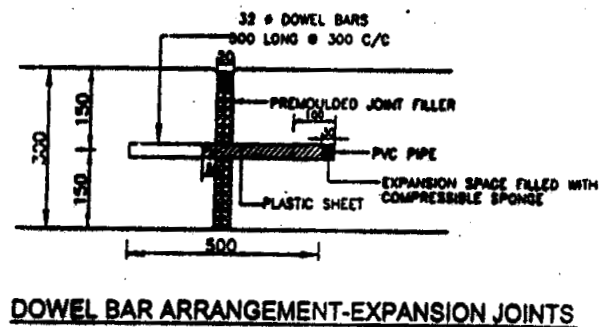
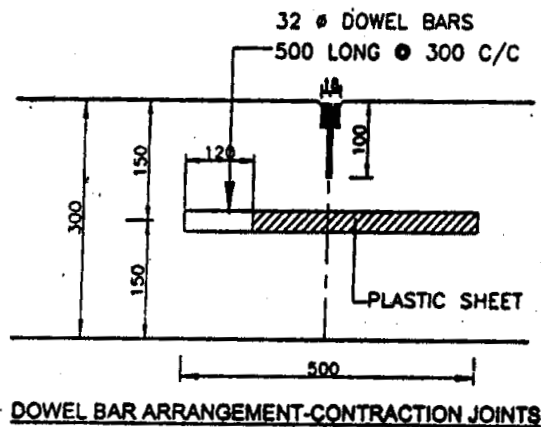
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TYPE -03**



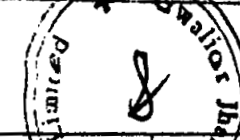
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 2. FOR DETAILS OF DRAIN REFER DRAIN DRAWINGS
 3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH PLAN & PROFILE AND CROSS SECTION DRAWINGS OF DIFFERENT CHAINAGES FOR RELEVANT INFORMATION.
 4. FOR DETAIL OF RETAINING WALL REFER STRUCTURAL DRAWING



21100112



JOINT BETWEEN ASPHALT/CONCRETE





Typical Cross Section for Grade Separators/Flyovers with Service Roads

			<p style="text-align: center;">BA</p> <p>Engineers & Management Associates 1000 West 67th Street, P.O. Box 9800 Los Angeles, California 90045-9800</p>
DATE	FILE NO.	SYNOPSIS	

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Road Transport & Highways)

NOTICE TO THE LAW AND OTHER MEMBERS OF THE MEETING FOR LAW
CONFERENCES FROM 24 TO 25 SEP 65
JOINT CONFERENCE MEMBERS (24-25)
IN THE YEAR OF 1965

**TYPICAL CROSS SECTION OF
TYPE -04 & 04-A**

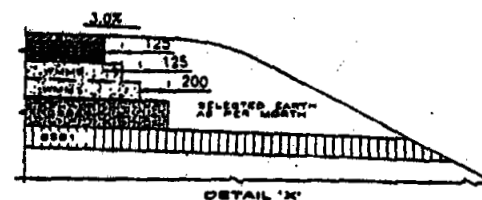
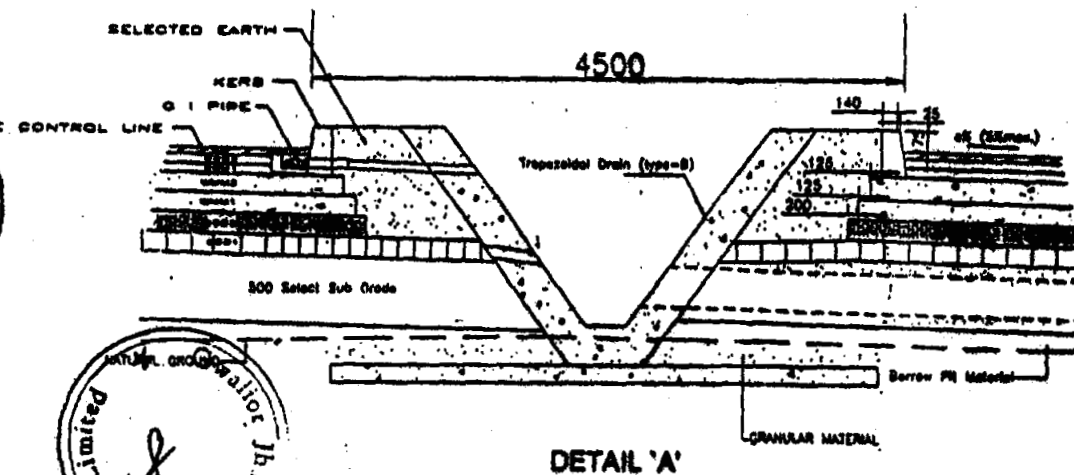
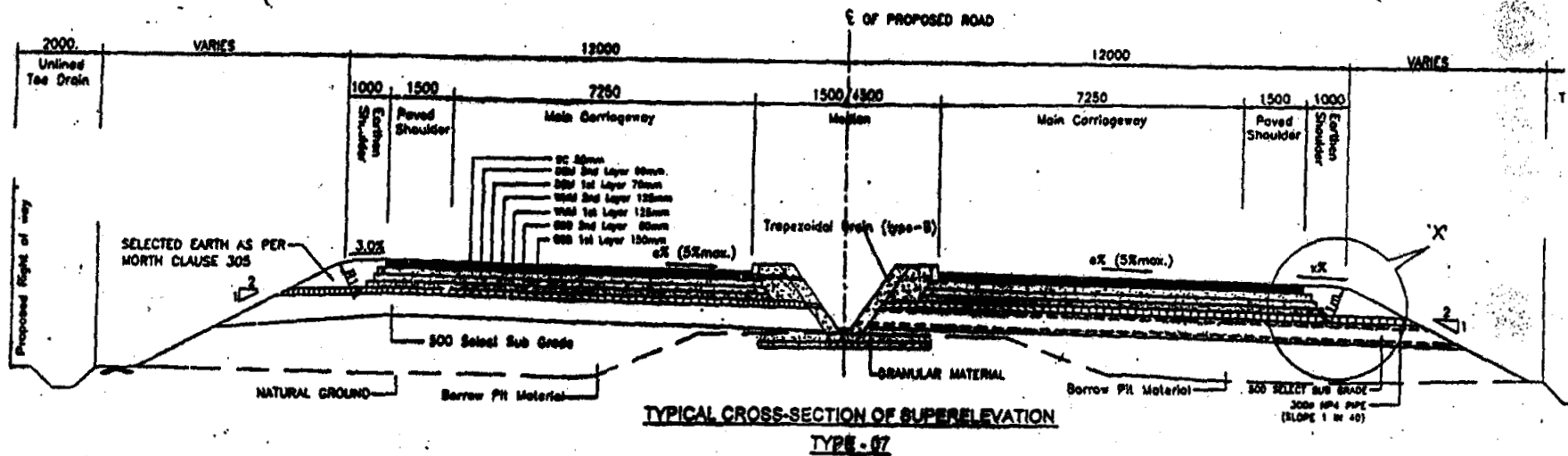
NEWARK, NJ 07102 NEWARK, NJ 07102-7500 / TCS ON DATE: Nov-10-00 2000 (000000)		
DESIGNED	CHECKED	APPROV
SANJAY GUPTA	S. DOSWAL	BRD, CI

900121



1. FOR DETAILS OF HEAD AND CLUTTER REFER DRAWING NO. MAN/MTS/00-01-04-070/MSL/TSOP/STG-01
2. FOR DETAILS OF BRUSH REFER DRAWING NUMBERS
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH PLAN & PROFILE AND CROSS SECTION DRAWINGS OF DIFFERENT CHARGES FOR HELIUM INFORMATION.
4. FOR OTHER OF RETURNING WILL REFER STRUCTURAL DRAWING.

Middle Atlantic EA Engineers & Management Associates 1000 Pennsylvania Ave. N.E. Washington, D.C. 20002 Tel. (202) 331-1100		State: _____ County: _____ City: _____ Zip: _____		Project: _____ Name: _____ Address: _____ City: _____ State: _____ Zip: _____		National Highway Authority for Data (State of Road Transport & Movement) _____ _____ _____		Date: _____ By: _____ Title: _____	
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NOTE:-

1. FOR DETAILS OF KERB AND GUTTER REFER DRAWING No. NMN/NH75/GW-JH/Pkg-C/TD/MISC/BSGP/STD-01
2. FOR DETAILS OF DRAIN REFER DRAIN DRAWINGS
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH PLAN & PROFILE AND CROSS SECTION DRAWINGS OF DIFFERENT CHAINAGES FOR RELEVANT INFORM
4. FOR DETAIL OF RETAINING WALL REFER STRUCTURAL DRAWING



<p>100122</p>	<p>Engineers & Management Associates 100122</p>	<p>SCALE</p>	<p>NOTE:- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED</p>	<p>NATIONAL HIGHWAY AUTHORITY OF INDIA (Group of Road Transport & Highways)</p>	<p>TYPICAL CROSS SECTION FOR TYPE-07</p>	<p>DR. NO. NHAI/WH75/GW-JH/Pkg-C/TD/MISC/BSGP/STD-01 DATE: 10/01/2008 DESIGNED: S. SODHAI CHECKED: S. SODHAI APPROVED: S. SODHAI</p>
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Expresses
limited

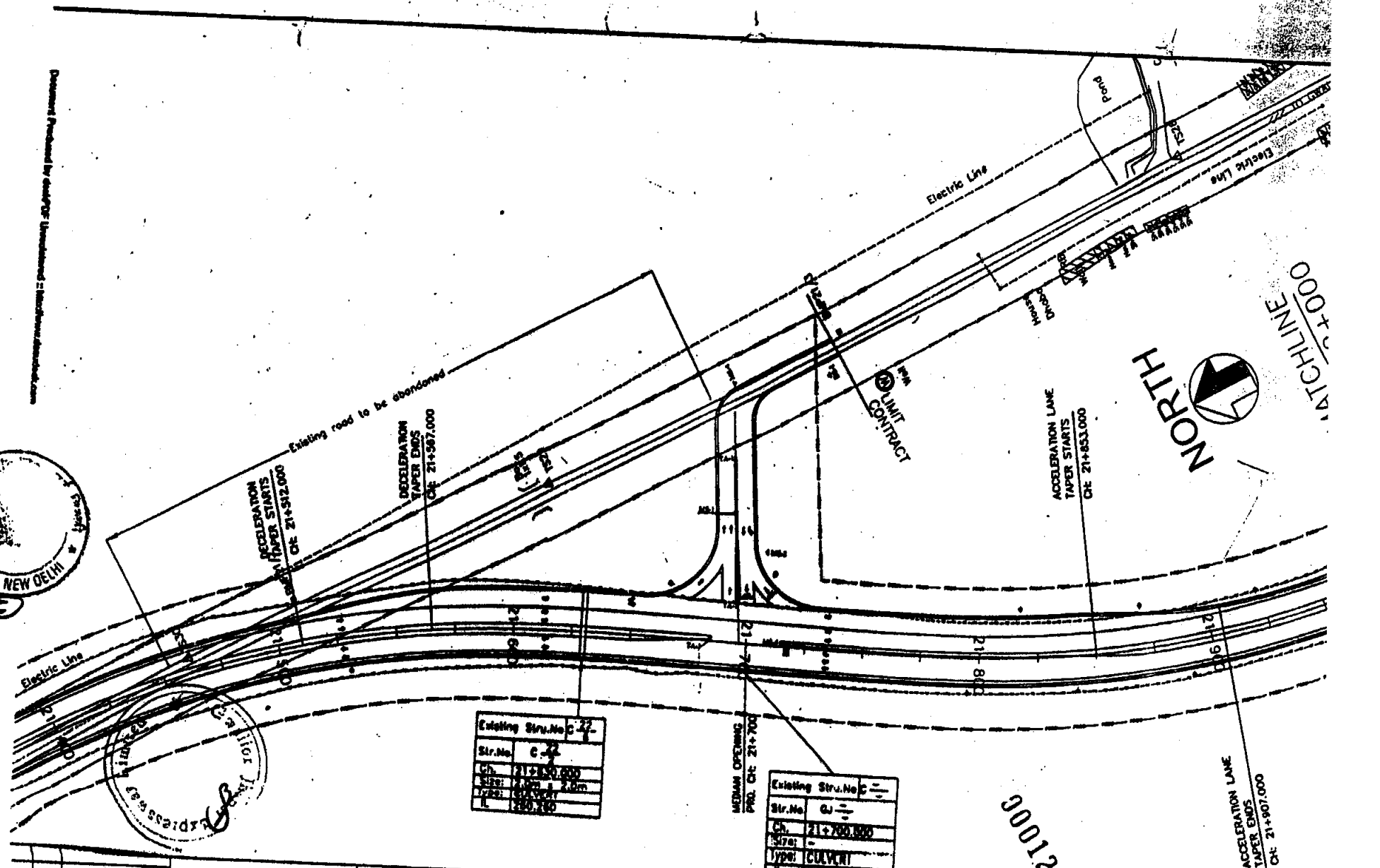
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Engineers & Management Associates
1000 Ave. C-100, P.O. Box 27, San Francisco, CA 94115

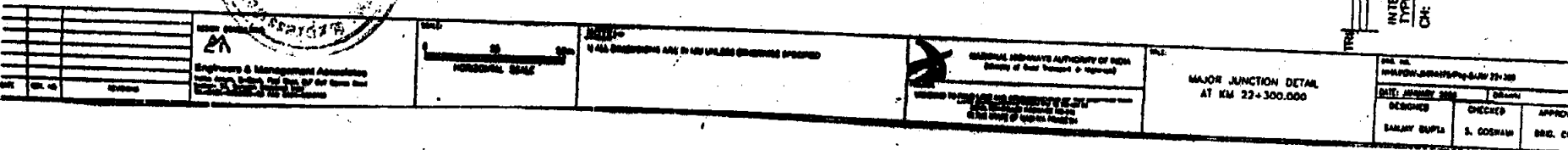
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ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Road Transport & Highways)

MAJOR JUNCTION DETAIL

[illegible]



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To Prabhu Public School

Temple
Temple
Temple

Building Under Const.

LIMIT CONTRACT

Existing road to be abandoned

CONSTRUCTION
STARTS 25.0000
NOVEMBER 2000

RECONSTRUCTION
STARTS 25.0000
NOVEMBER 2000

ACCELERATION LANE
TAPER STARTS
CH 34+810.000

ACCELERATION LANE
TAPER ENDS
CH 34+855.000

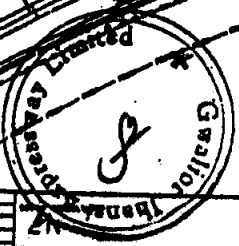
CH 34+855.000
CH 34+855.000
CH 34+855.000

MAJOR JUNCTION AND
CROSSING INTERSECTION
CH 34+855.000

000126

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Sec	34+870.000	
Type	CH/VEH	
	22.0000	

Existing	Stru.No	C
Ch	C-35	
Sec	34+870.000	
Type	CH/VEH	
	22.0000	



DATE	BY	REMARKS
25.11.2000	CH/VEH	CH/VEH

Engineers & Management Associates
New Delhi, India. For the Govt. of India
CH/VEH - 22.0000



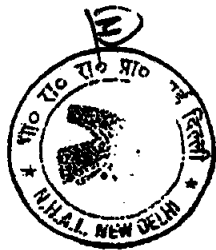
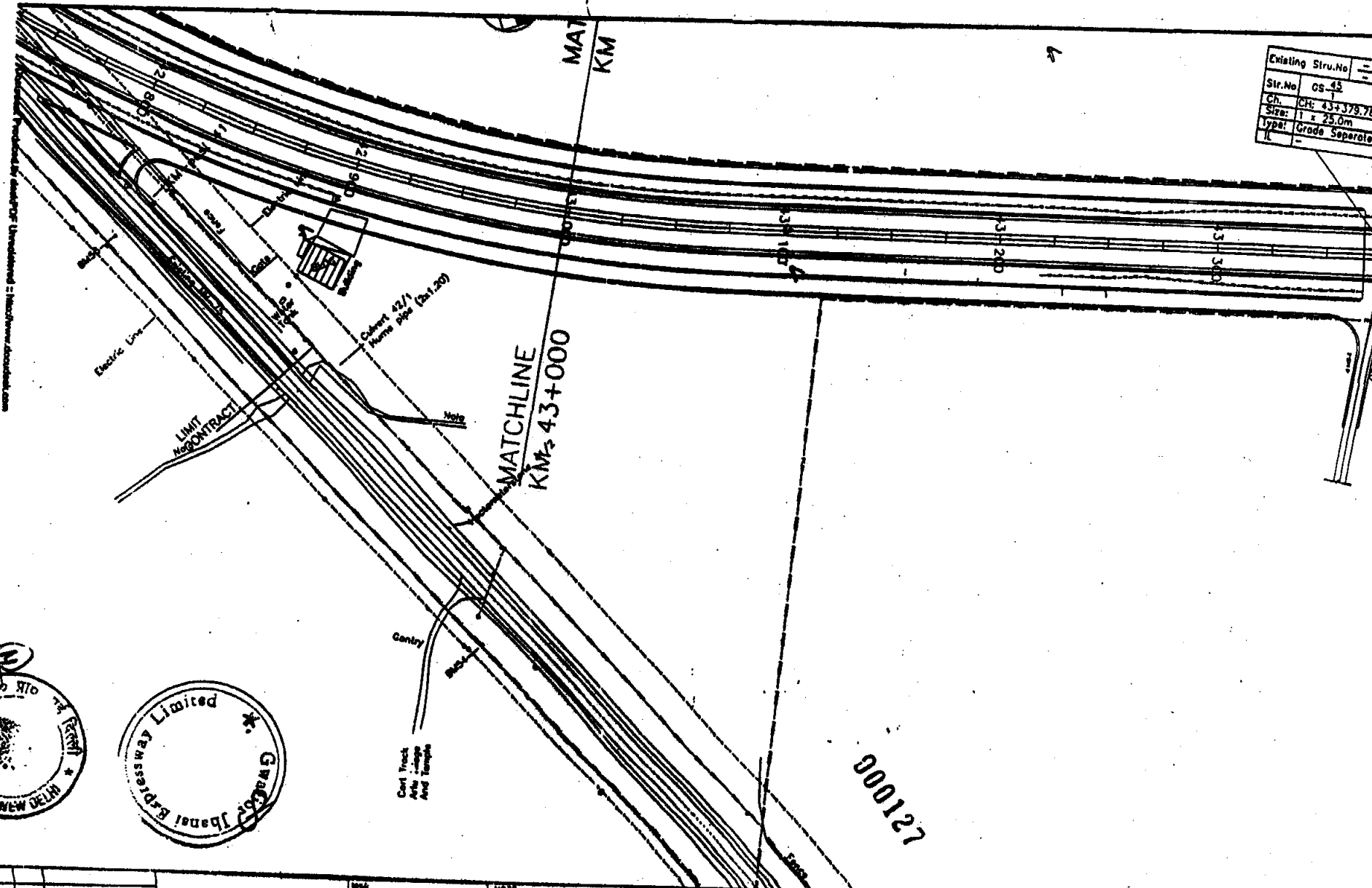
2011-12
WALL DIMENSIONS AND CH/VEH DIMENSIONS SHOWN

NATIONAL INFRASTRUCTURE AUTHORITY OF INDIA
Ministry of Road Transport & Highways
NEW DELHI
CH/VEH - 22.0000

MAJOR JUNCTION DETAIL
AT KM 34+780.000

DESIGNED	CHECKED	APPROVED
SARANYA SINGH	S. SINGH	DR. CHANDRA

Existing	Siru.No	
Sir.No	CS-45	
Ch.	CH: 43+379.78	
Size:	1 x 25.0m	
Type:	Grade Separator	
IL		



000127

DESIGNER ENGINEERS & MANAGERS ASSOCIATES 2A 15/11/2008 15/11/2008		SCALE HORIZONTAL SCALE 1:1000		NOTE:- 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED		NATIONAL HIGHWAY AUTHORITY OF INDIA (Stamp of the Authority)		DATE: November, 2008 DESIGNED: [Signature] CHECKED: [Signature] APPROVED: [Signature]	
MAJOR JUNCTION DETAIL AT KM 48+048.250				DATE: November, 2008 DESIGNED: [Signature] CHECKED: [Signature] APPROVED: [Signature]		DATE: November, 2008 DESIGNED: [Signature] CHECKED: [Signature] APPROVED: [Signature]		DATE: November, 2008 DESIGNED: [Signature] CHECKED: [Signature] APPROVED: [Signature]	

1:5000
Type: Culvert
R. 195.461

Existing Stru.No C-
Str.No C-
Ch. 52+387.000
Size: 2.8m x 3.0m
Type: CULVERT
R. 198.500

ROAD OPENING AND
MAJOR JUNCTION INTERSECTION
PC: 52+348.000



HARIPUR VILLAGE

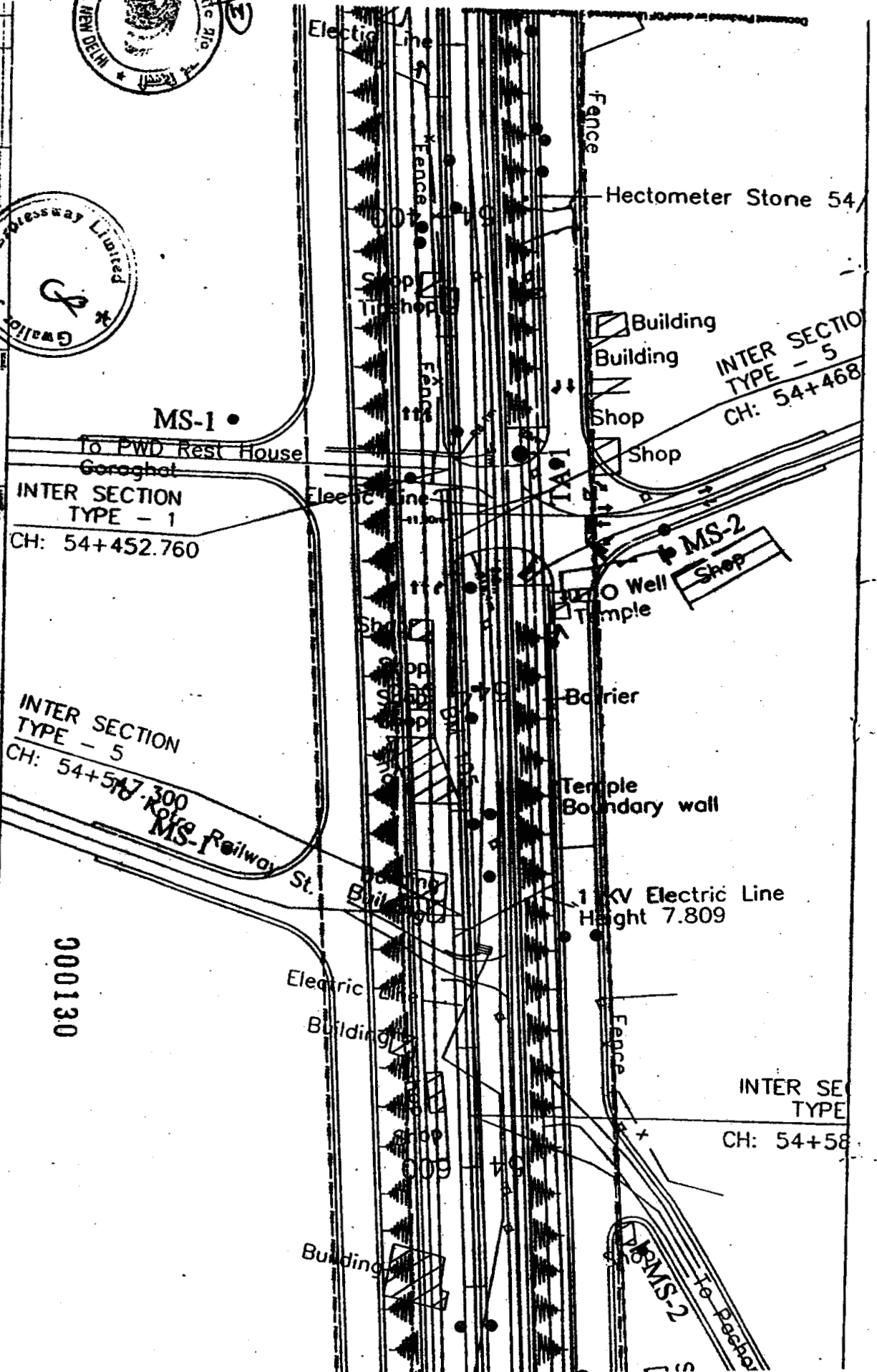
VILLAGE

82100C

Revision 2A Engineers & Management Associates 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000		SCALE 1:500 HORIZONTAL SCALE	NOTE:- 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED	NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport & Highways) DRAWING NO. NH-175-Pg-04/52-348 DATE: November, 2005 DESIGNED: S. GUPTA CHECKED: S. GUPTA APPROVED: S. GUPTA	MAJOR JUNCTION DETAIL AT KM 52+348.000
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Project Name		Scale		Sheet No.	
Gwalior Expressway Limited		1:1000		000130	
Engineer & Management Committee		Date		Sheet No.	
Gwalior Expressway Limited		2001		000130	
Project Name		Scale		Sheet No.	
Gwalior Expressway Limited		1:1000		000130	
Engineer & Management Committee		Date		Sheet No.	
Gwalior Expressway Limited		2001		000130	
Project Name		Scale		Sheet No.	
Gwalior Expressway Limited		1:1000		000130	
Engineer & Management Committee		Date		Sheet No.	
Gwalior Expressway Limited		2001		000130	



WATER SECTION
TYPE - 5
CH: 59+573.000
CURVE 60/120
RADIUS 120m

TAPER STARTS
DECELERATION
CH: 59+734.500

TAPER ENDS
DECELERATION
CH: 59+765.000

Existing road to be abandoned

Kilometerpost

Culvert at Arch with Spout (3x3.00m)

Building

Building

Str.No	Str.No	C-80
Ch. 59+878.500		
Type: 6.0m x 2.6m		
CUV(R)		
201.949		



MATCHLINE
KM 60+000

MATCHLINE
KM 60+000

TAPER STARTS
ACCELERATION LANE
CH: 60+033.000

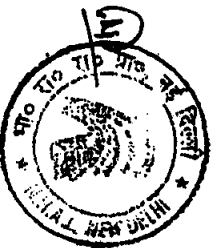
TAPER ENDS
ACCELERATION LANE
CH: 60+110.000

WATER SECTION
TYPE - 5
CH: 60+185.000
CURVE 60/120
RADIUS 120m

CURV	
R	36'
D	218'
Ls	2
Ts	28' 58"
De	304'
Lc	32'
Es	5.0
V	100 km

Str.No	Str.No	C-81
Ch. 60+033.000		
Type: 3.0m x 2.6m		
CUV(R)		
201.949		

000131



Engineers & Management Associates
1/1, 2/1, 3/1, 4/1, 5/1, 6/1, 7/1, 8/1, 9/1, 10/1, 11/1, 12/1, 13/1, 14/1, 15/1, 16/1, 17/1, 18/1, 19/1, 20/1, 21/1, 22/1, 23/1, 24/1, 25/1, 26/1, 27/1, 28/1, 29/1, 30/1, 31/1, 32/1, 33/1, 34/1, 35/1, 36/1, 37/1, 38/1, 39/1, 40/1, 41/1, 42/1, 43/1, 44/1, 45/1, 46/1, 47/1, 48/1, 49/1, 50/1, 51/1, 52/1, 53/1, 54/1, 55/1, 56/1, 57/1, 58/1, 59/1, 60/1, 61/1, 62/1, 63/1, 64/1, 65/1, 66/1, 67/1, 68/1, 69/1, 70/1, 71/1, 72/1, 73/1, 74/1, 75/1, 76/1, 77/1, 78/1, 79/1, 80/1, 81/1, 82/1, 83/1, 84/1, 85/1, 86/1, 87/1, 88/1, 89/1, 90/1, 91/1, 92/1, 93/1, 94/1, 95/1, 96/1, 97/1, 98/1, 99/1, 100/1



NOTE:-

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

LEGEND

PROPOSED HIGHWAY

EXISTING HIGHWAY

RAILWAY TRACK

WATER BODY

ROAD CROSSING

POSSIBLE ALIGNMENT

PROPOSED ALIGNMENT

EXISTING ALIGNMENT

RAILWAY TRACK

WATER BODY

ROAD CROSSING

POSSIBLE ALIGNMENT

PROPOSED ALIGNMENT

EXISTING ALIGNMENT

RAILWAY TRACK

WATER BODY

ROAD CROSSING

POSSIBLE ALIGNMENT

PROPOSED ALIGNMENT

EXISTING ALIGNMENT

RAILWAY TRACK

WATER BODY

ROAD CROSSING

POSSIBLE ALIGNMENT

PROPOSED ALIGNMENT

EXISTING ALIGNMENT

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PROPOSED ALIGNMENT

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POSSIBLE ALIGNMENT

PROPOSED ALIGNMENT

EXISTING ALIGNMENT

RAILWAY TRACK

WATER BODY

ROAD CROSSING

POSSIBLE ALIGNMENT

PROPOSED ALIGNMENT

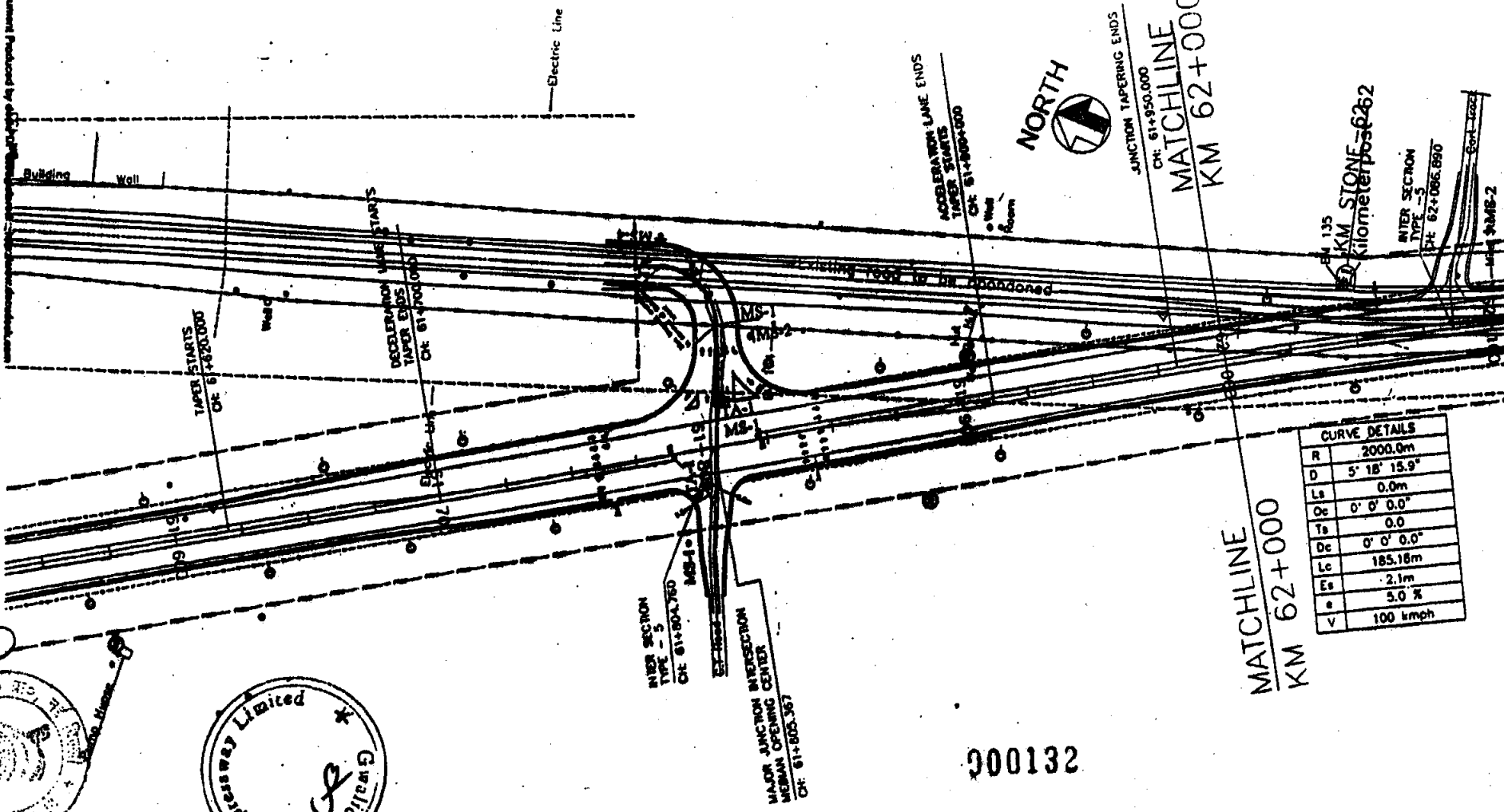
EXISTING ALIGNMENT

RAILWAY TRACK

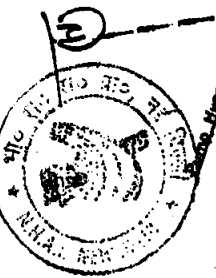
WATER BODY

ROAD CROSSING

Document Produced by eGator Limited



CURVE DETAILS	
R	2000.0m
D	5° 18' 15.9"
Ls	0.0m
Qc	0' 0' 0.0"
Ts	0.0
Dc	0' 0' 0.0"
Lc	185.18m
Es	2.1m
e	5.0 %
V	100 kmph



000132

DESIGNER BA Engineers & Management Associates 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000	SCALE 	ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED	MATERIAL SPECIFICATIONS 1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED	INTERSECTION JUNCTION AT KM: 61+803.367	DESIGNED S. COENEN	CHECKED S. COENEN	APPROVED S. COENEN
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Document Produced by design/PC Unit



MATCHLINE
KM 63+000

33-KM STATION 63+363

CURVE DETAILS	
R	600.0m
D	19° 48' 34.2"
Ls	80.0m
Oc	218° 51' 13.5"
Ts	144.8
Dc	12° 10' 12.2"
Le	127.44m
Es	9.5m
e	5.0 %
V	100 kmph

MATCHLINE
KM 63+000

CURVE DETAILS	
R	600.0m
D	19° 48' 34.2"
Ls	80.0m
Oc	218° 51' 13.5"
Ts	144.8
Dc	12° 10' 12.2"
Le	127.44m
Es	9.5m
e	5.0 %
V	100 kmph

Existing road to be abandoned

DEVELOPING LANE STARTS HERE 63/2

Culvert 64/1
Slab (1x1.50m)

Bye Well
House

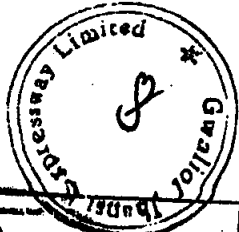
Electric Line
Railways
Structure

ACCELERATION LANE ENDS
TAPER STARTS
CH-63+32.000

000133 C.T. Road

MEDIAN DRAINAGE CENTER
CH-63+32.000
INTERSECTION
CH-63+33.380

Existing Stru.No C-64	
Str.No	C-64
Ch	1
Site	63+400.000
Type	2.0m x 2.5m
CH	CULVERT
CH	203.635



Engineers & Management Associates
100, Main Building, 1st Floor, 100, Main Road
Gwalior, M.P. 471 001



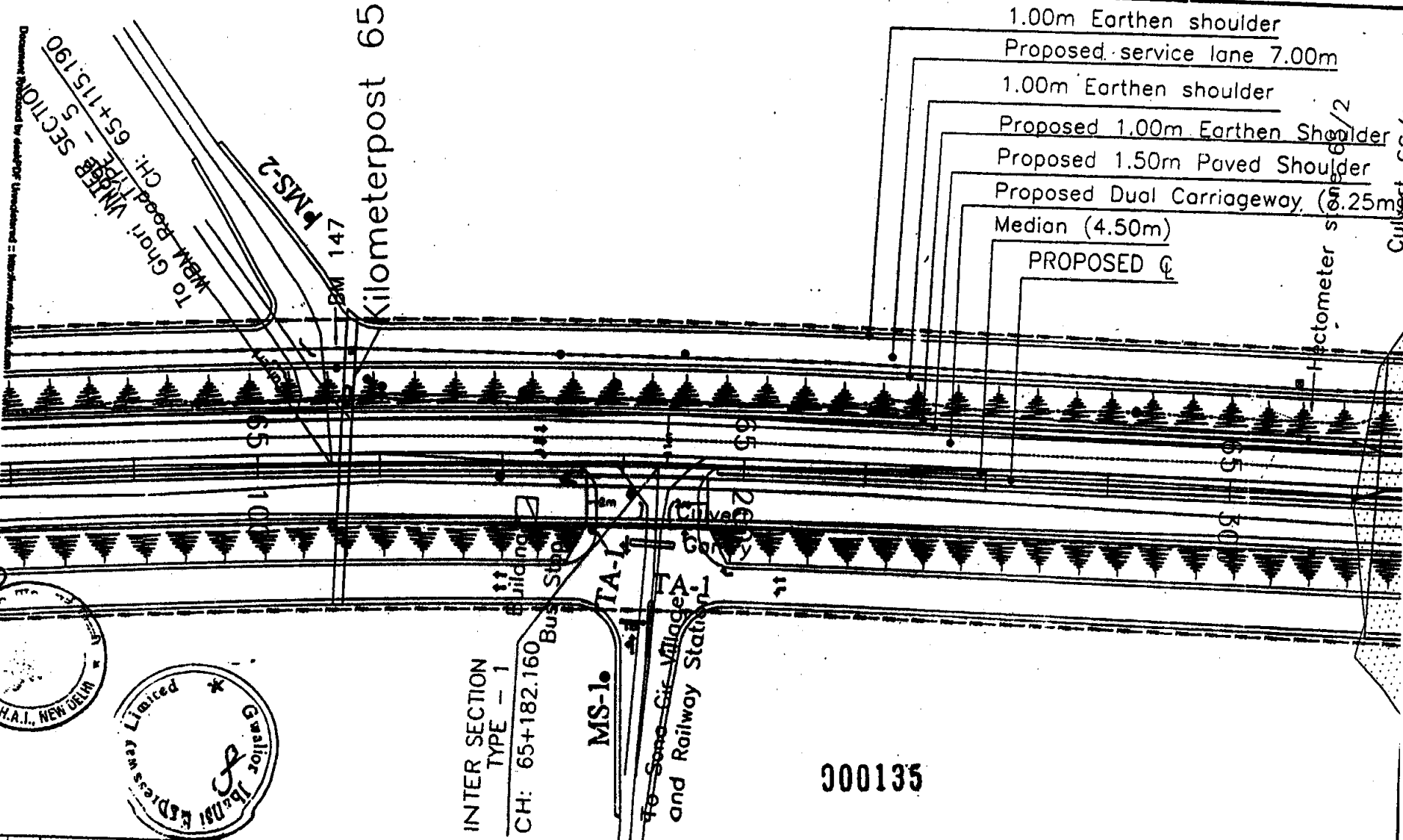
NOTE:-
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED

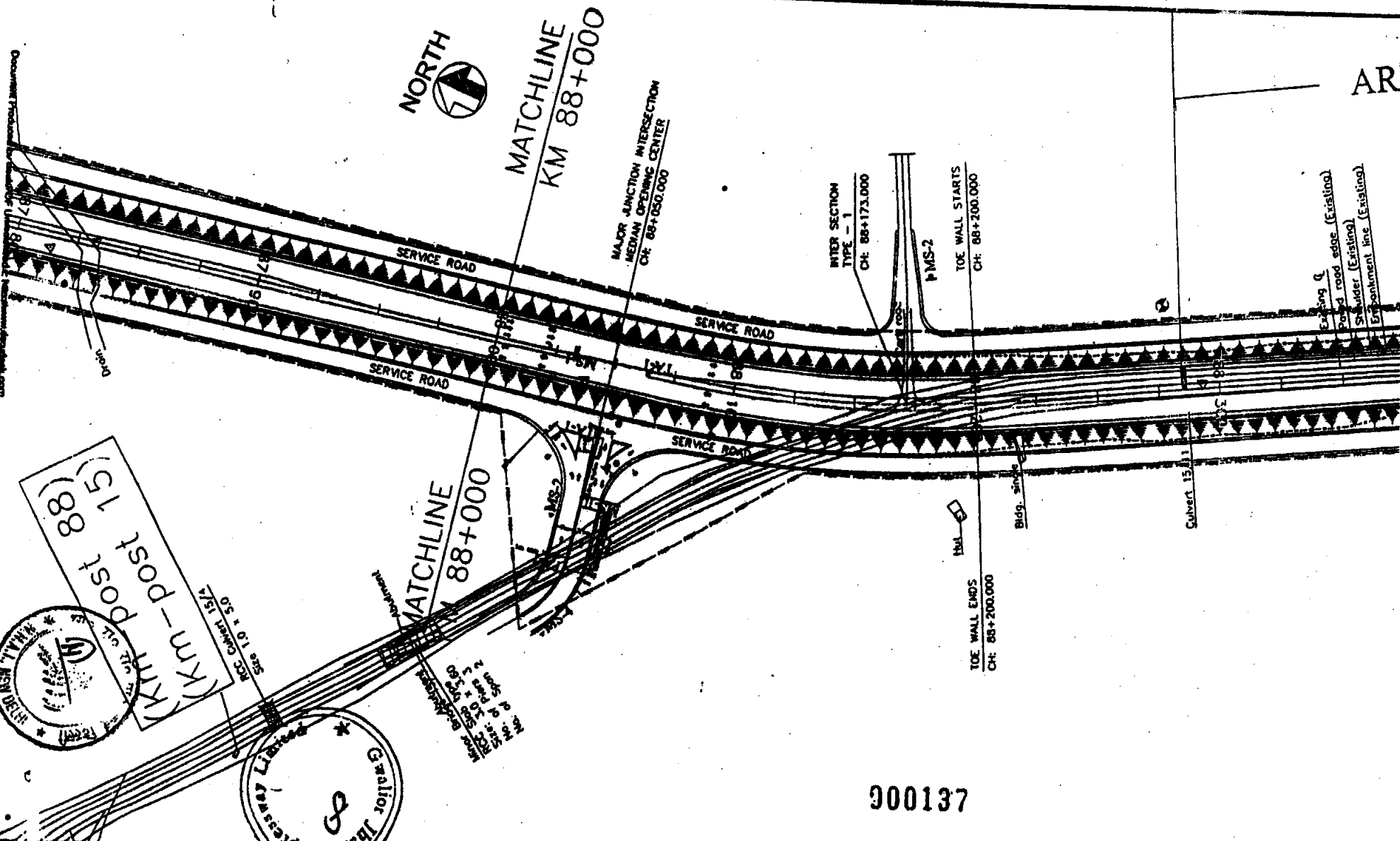
LEGEND
--- ROAD BOUNDARY
--- EXISTING ROAD
--- PROPOSED ROAD
--- RAILWAY TRACK

NATIONAL INDIAN AUTHORITY OF ROAD
Survey of Road Network & Highway

INTERSECTION

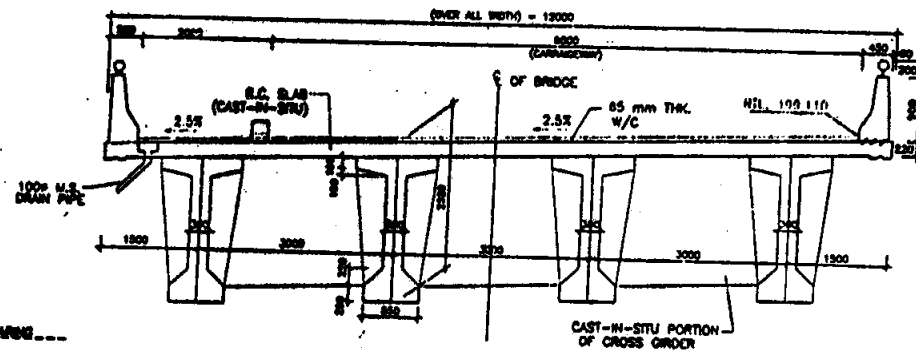
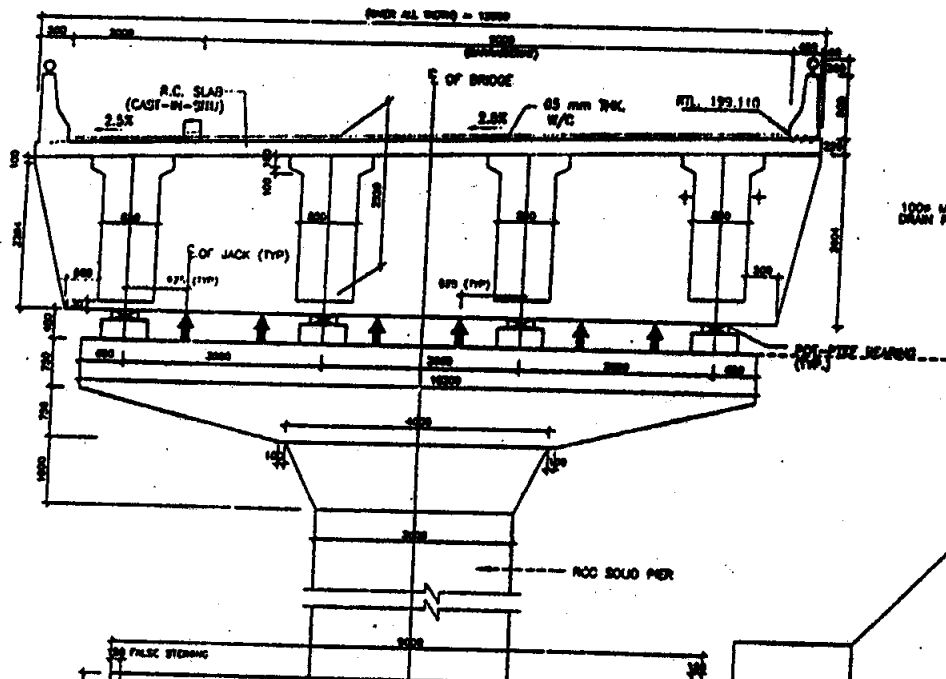
ROADWAY MARKING COPY-13



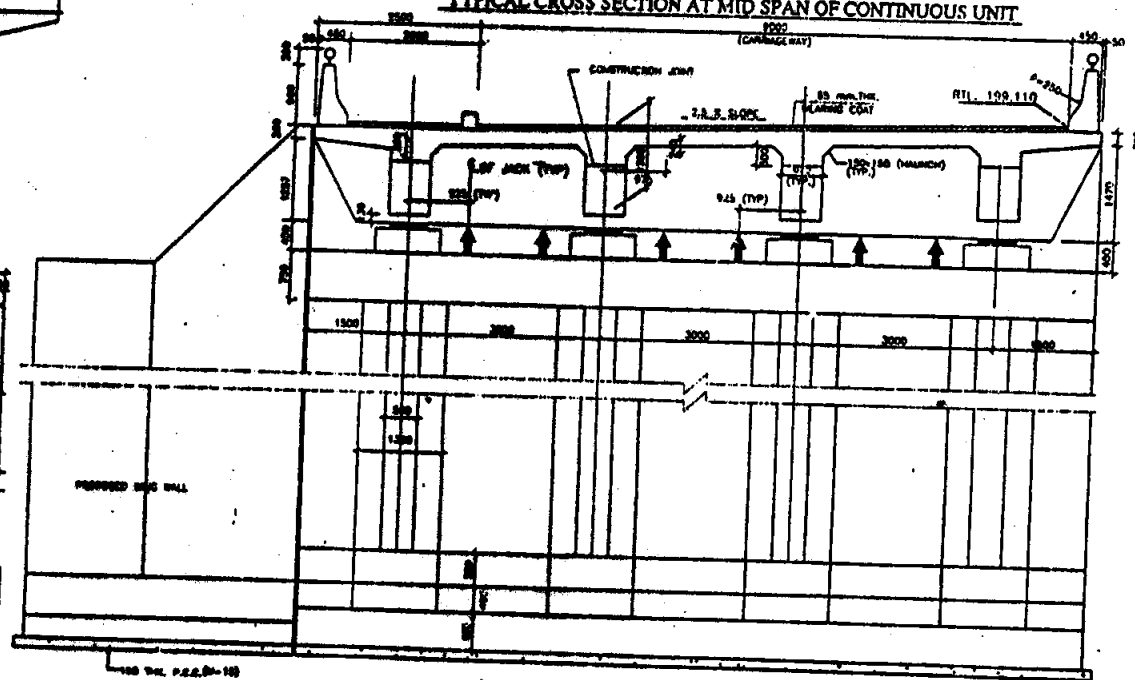


300137

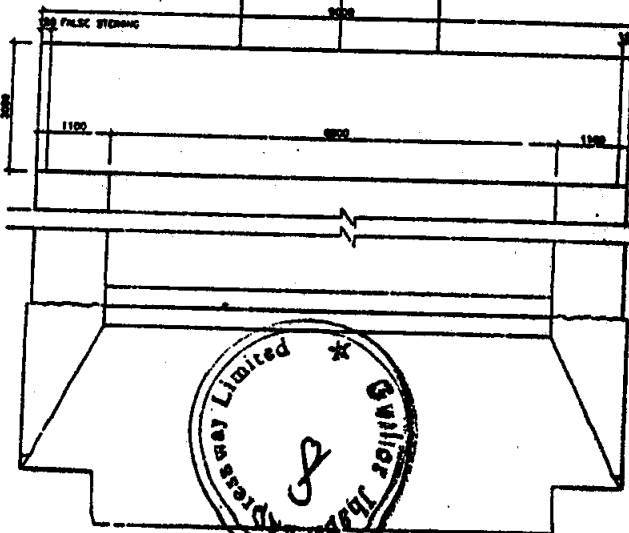
DESIGNED BY Engineers & Management Associates 1000 Kalia Road, Suite 1000 Honolulu, Hawaii 96813		SCALE 1" = 50'		NOTES 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED		REVISIONS 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED		DATE 10/10/2005		PROJECT INTERSECTION JUNCTION AT KM: 88+050.000		DATE 10/10/2005		PROJECT INTERSECTION JUNCTION AT KM: 88+050.000	
DESIGNED S. G. GUPTA		CHECKED S. G. GUPTA		APPROVED S. G. GUPTA		DATE 10/10/2005		PROJECT INTERSECTION JUNCTION AT KM: 88+050.000		DATE 10/10/2005		PROJECT INTERSECTION JUNCTION AT KM: 88+050.000			



TYPICAL CROSS SECTION AT MID SPAN OF CONTINUOUS UNIT

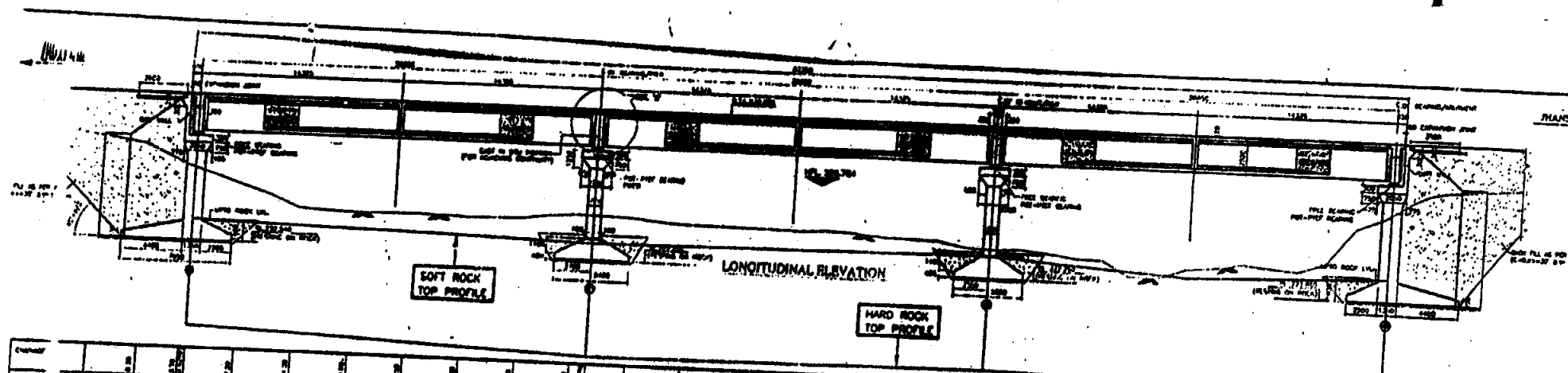


CROSS SECTION AT ABUTMENT (A1) SUPPORT

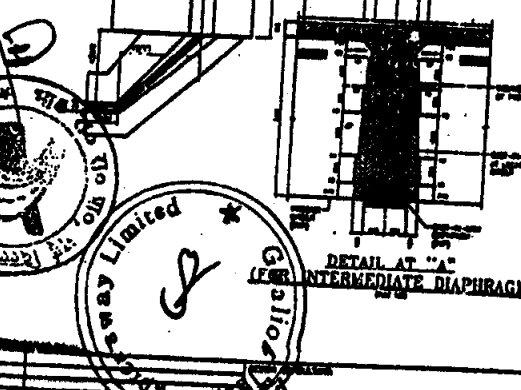
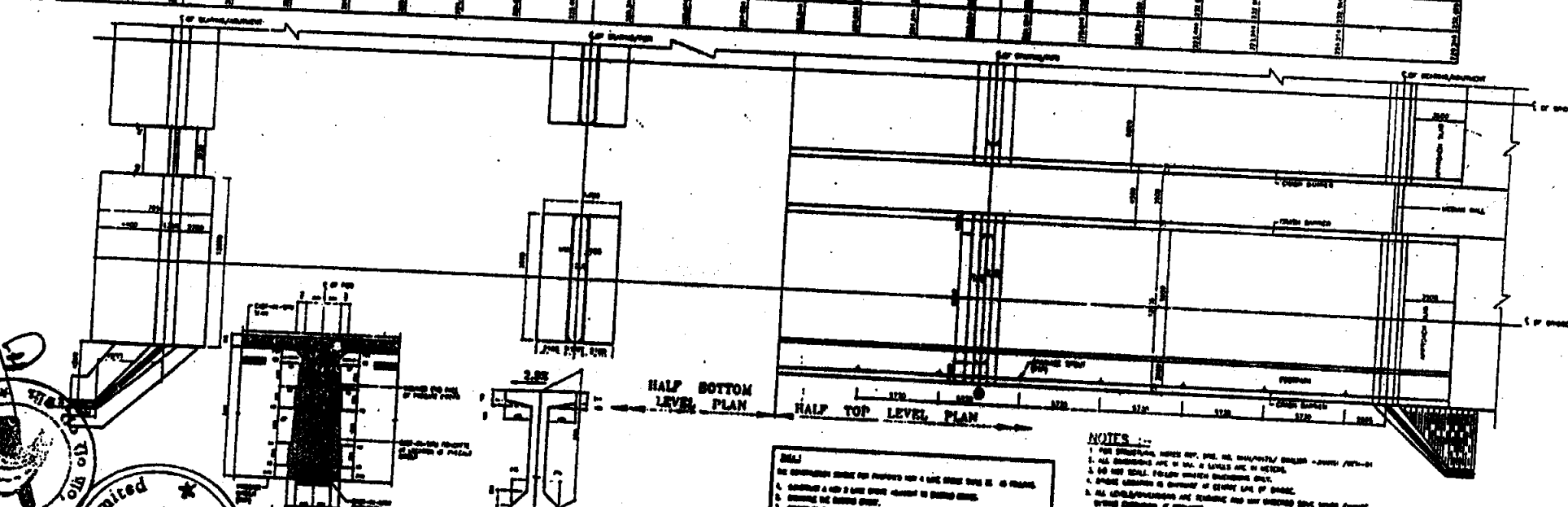


TYPICAL CROSS SECTION AT PIER SUPPORT ON WELL

000139

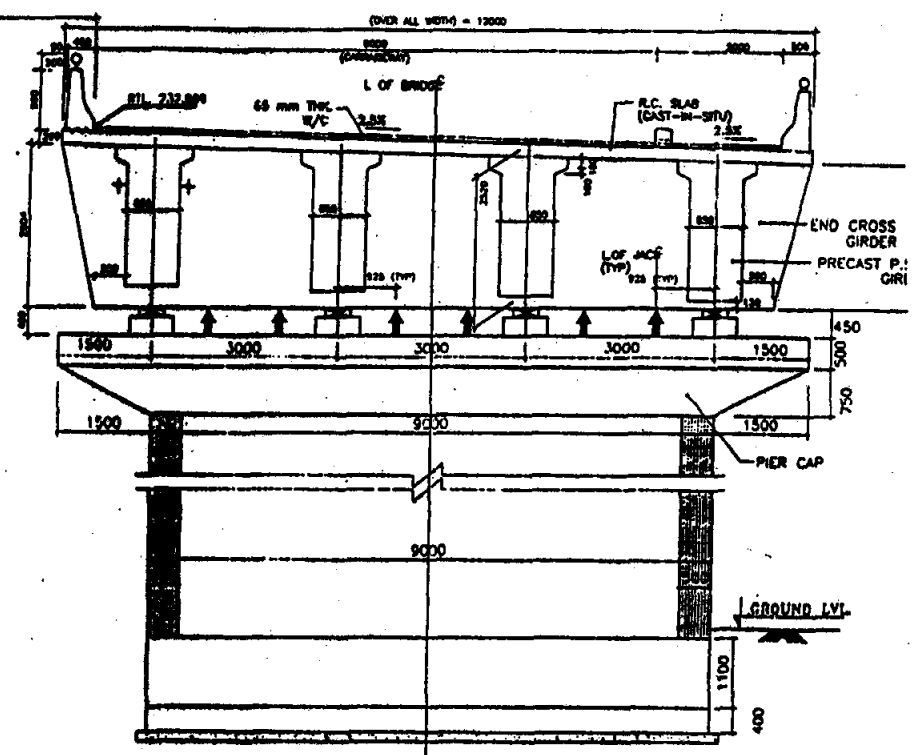
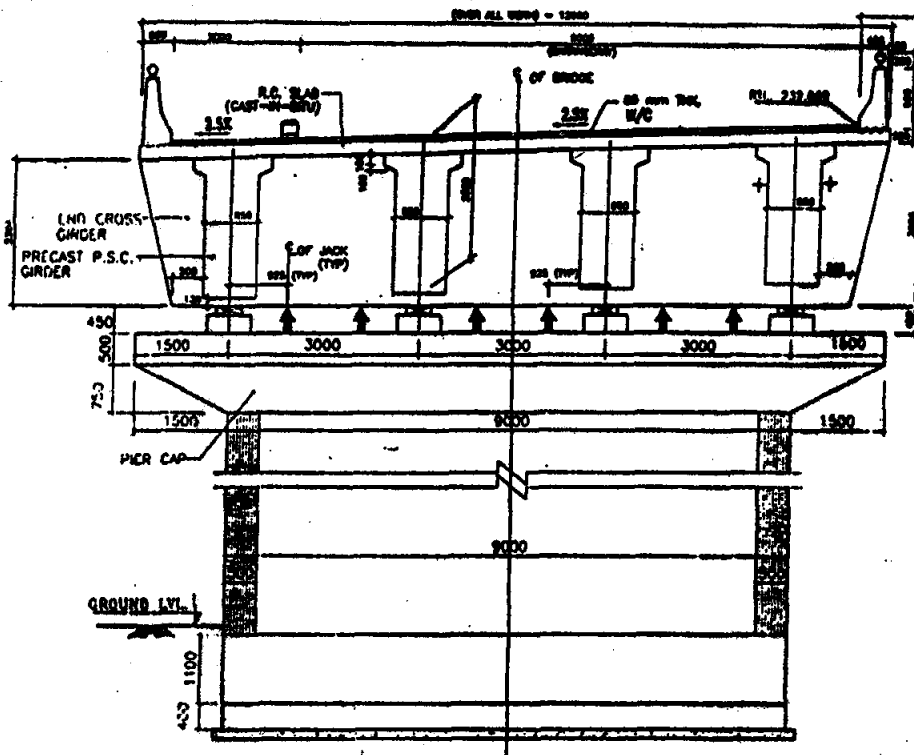


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1970	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030

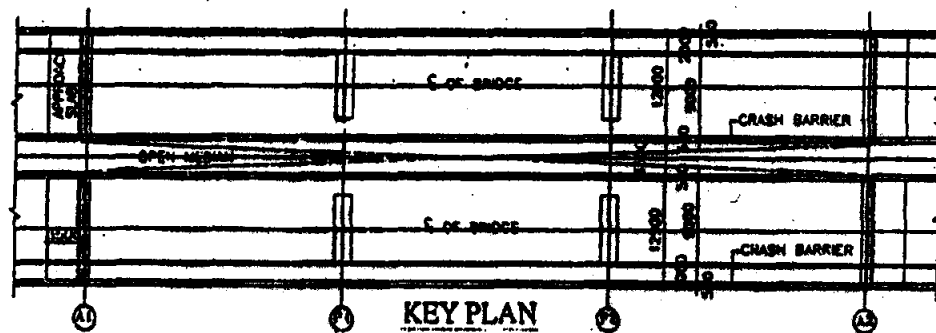


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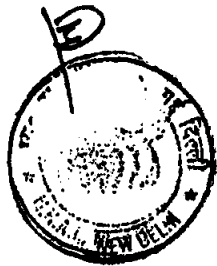
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CROSS SECTION AT PIER SUPPORT

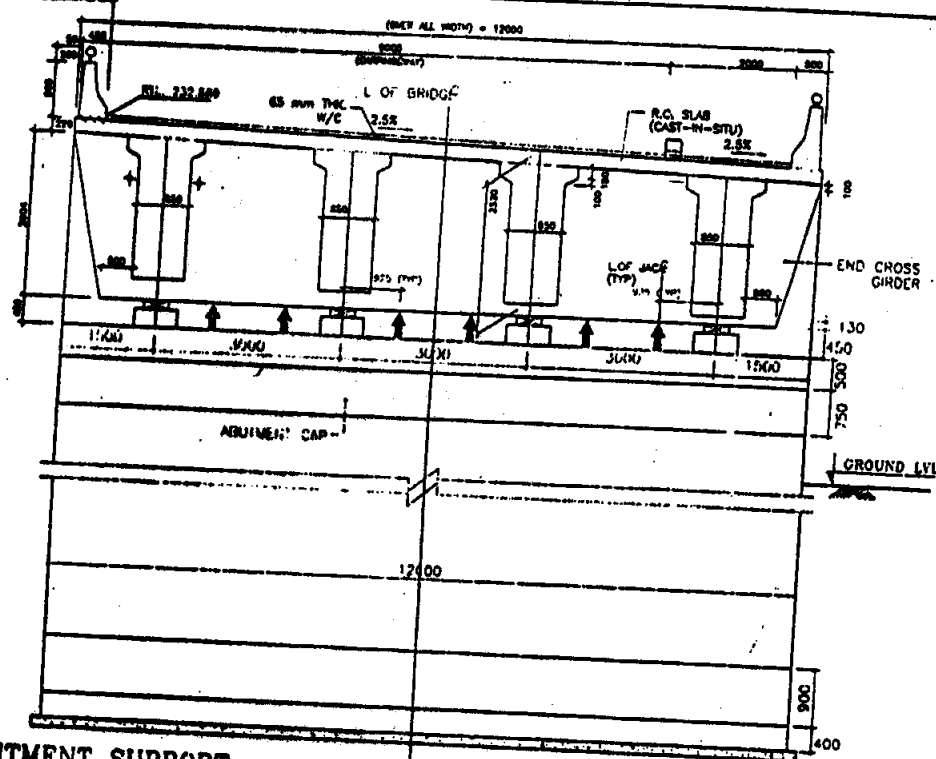
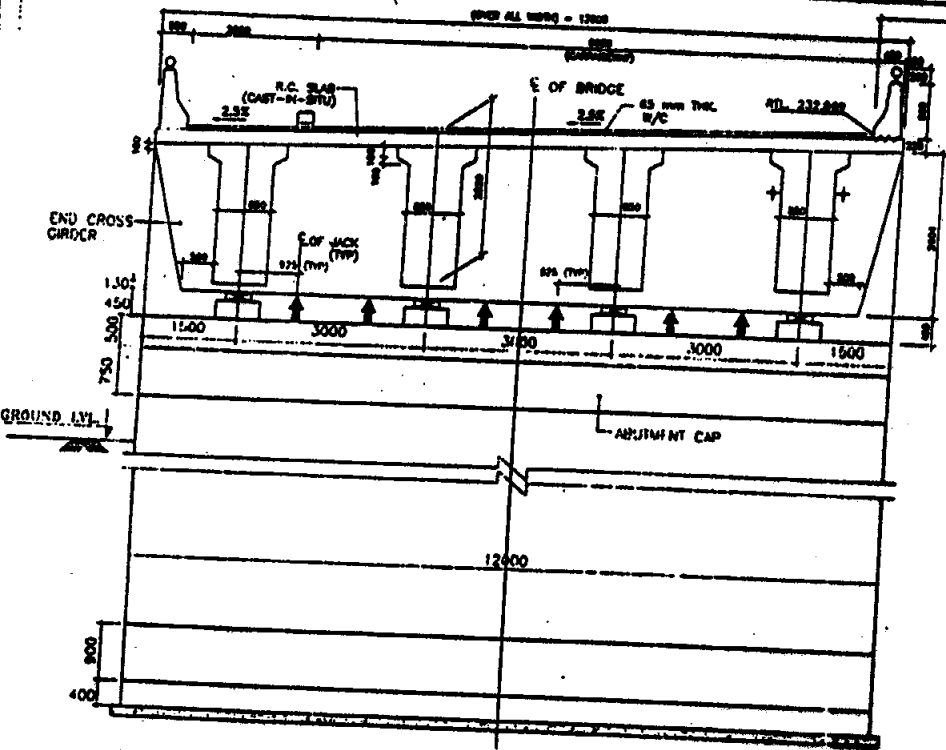


KEY PLAN

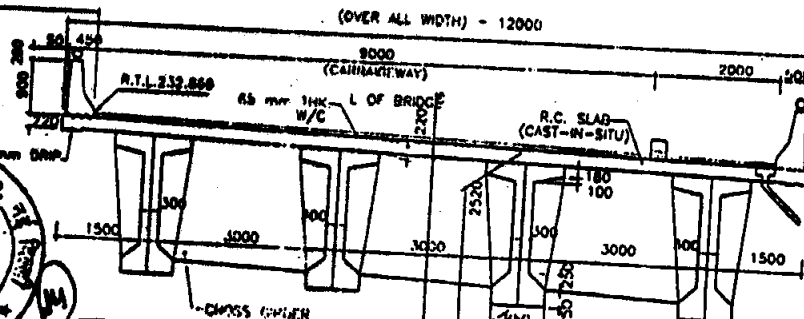
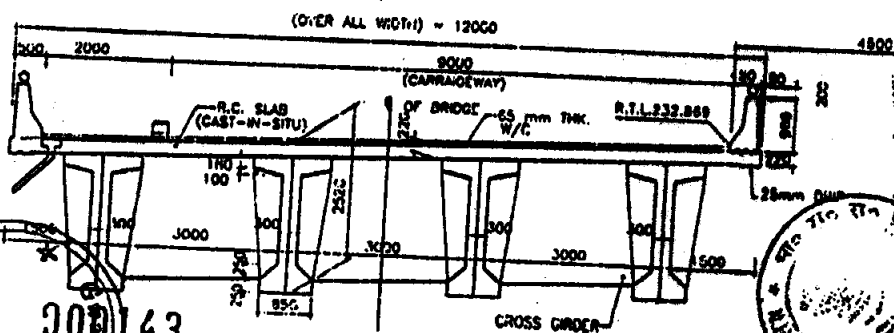


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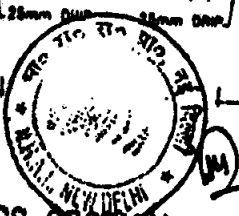
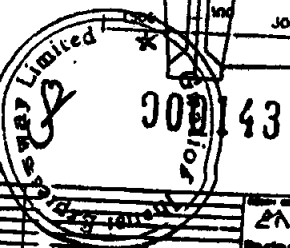
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CROSS SECTION AT ABUTMENT SUPPORT



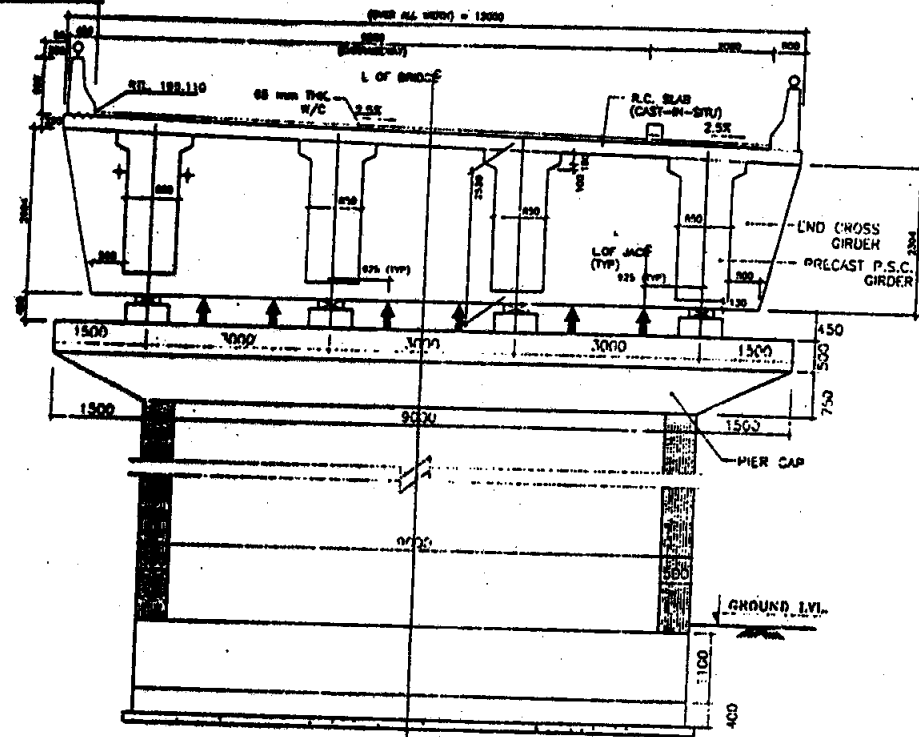
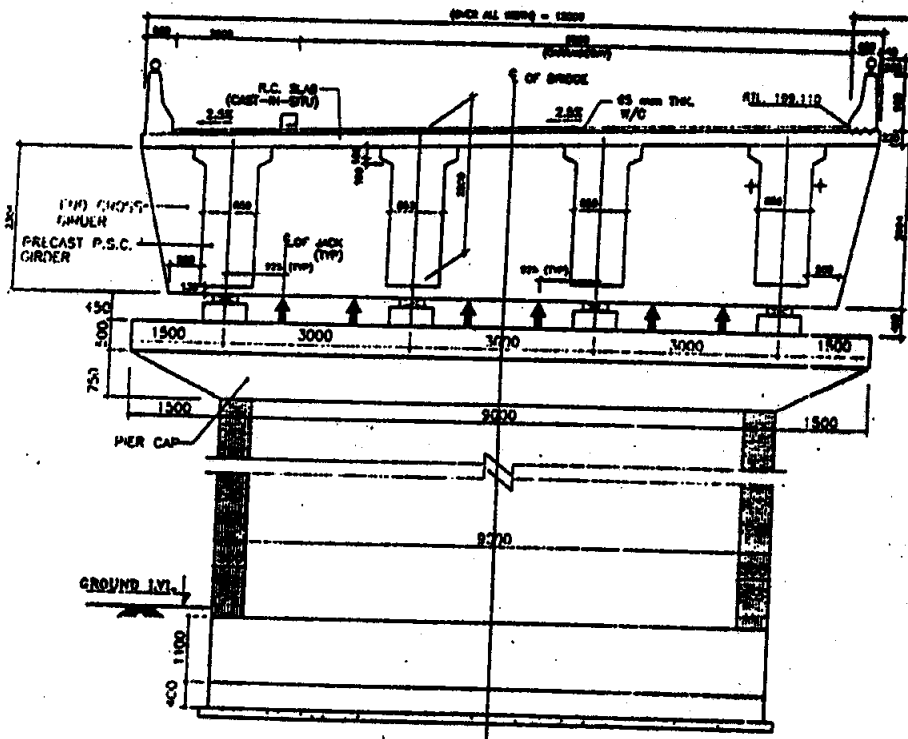
TYPICAL CROSS SECTION AT MID SPAN



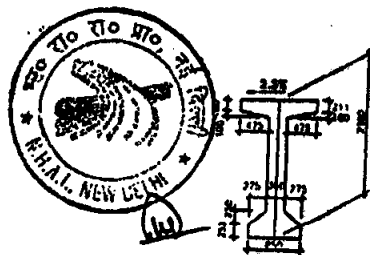
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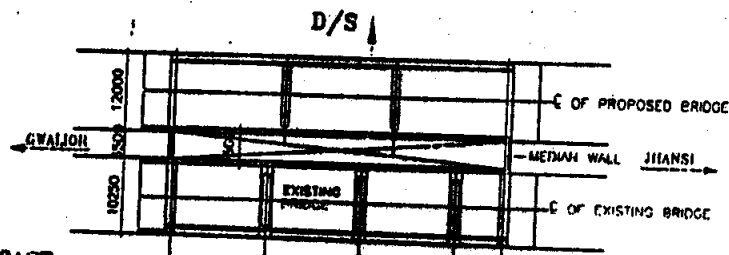
Fig. No. : B-16C



CROSS SECTION AT PIER SUPPORT



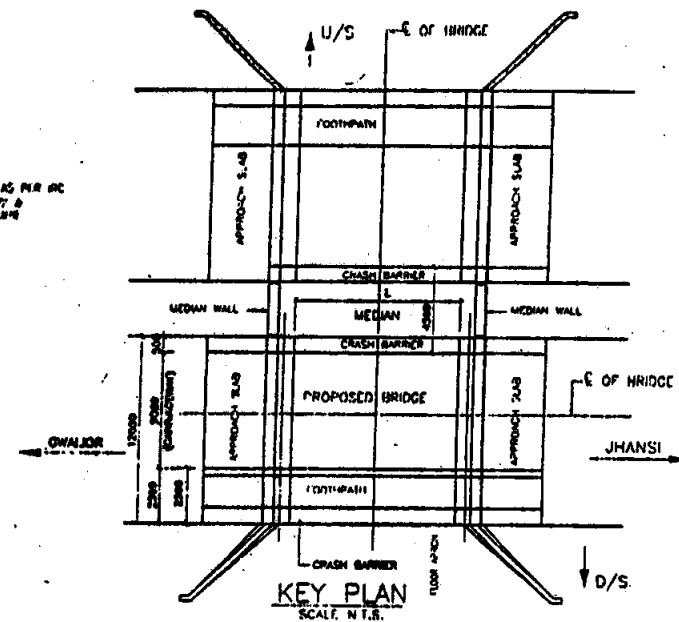
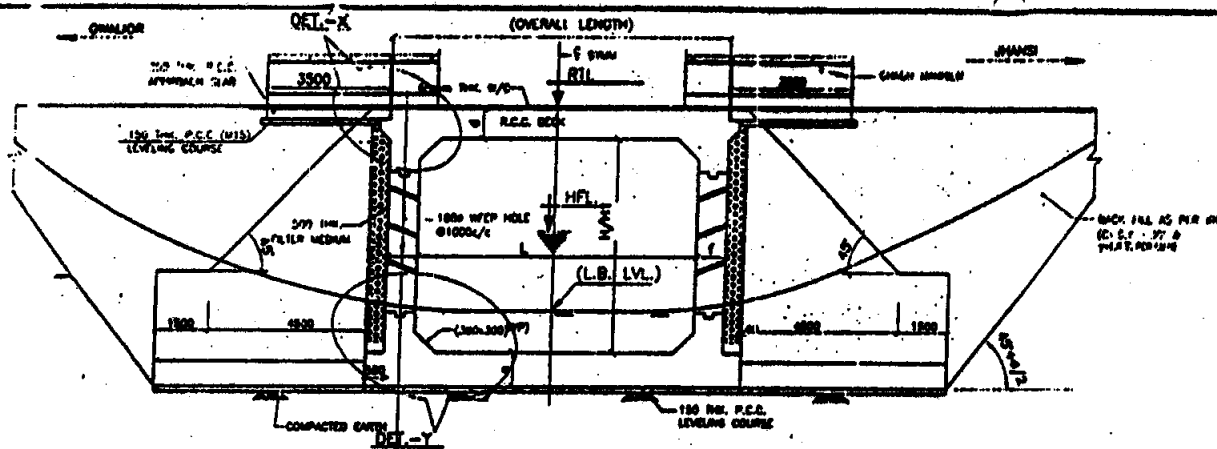
TYPICAL SECTION OF PRECAST GIRDER AT MID SPAN



KEY PLAN U/S
(SCALE N.T.S.)

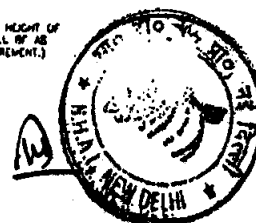
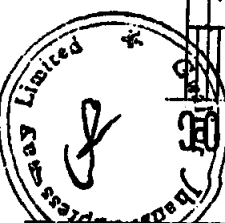
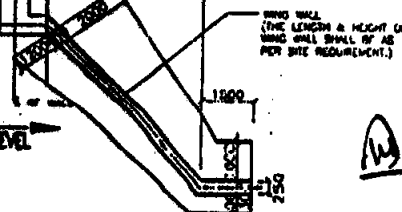
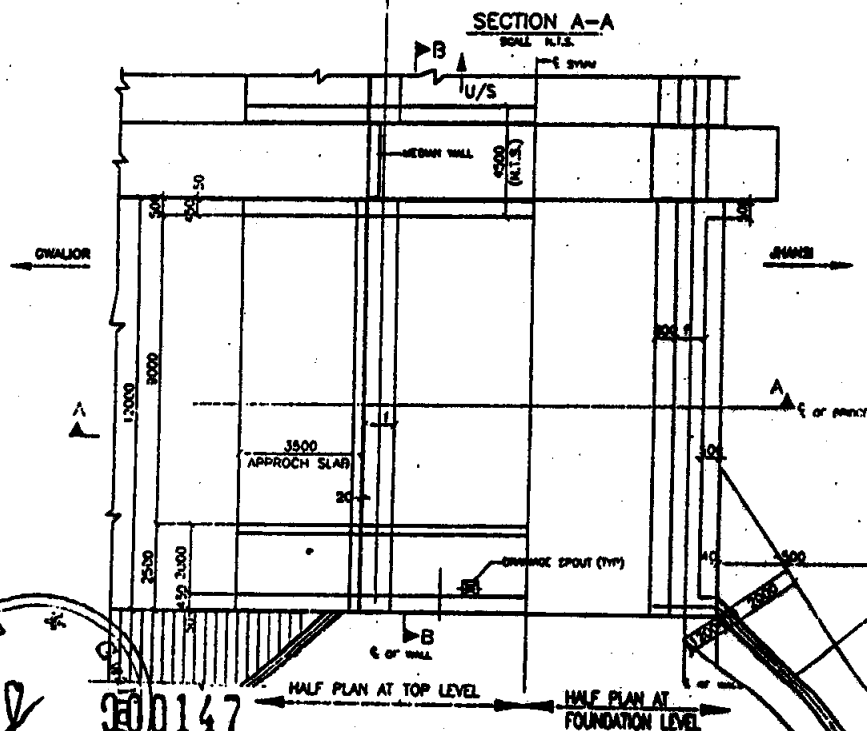


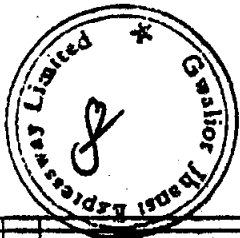
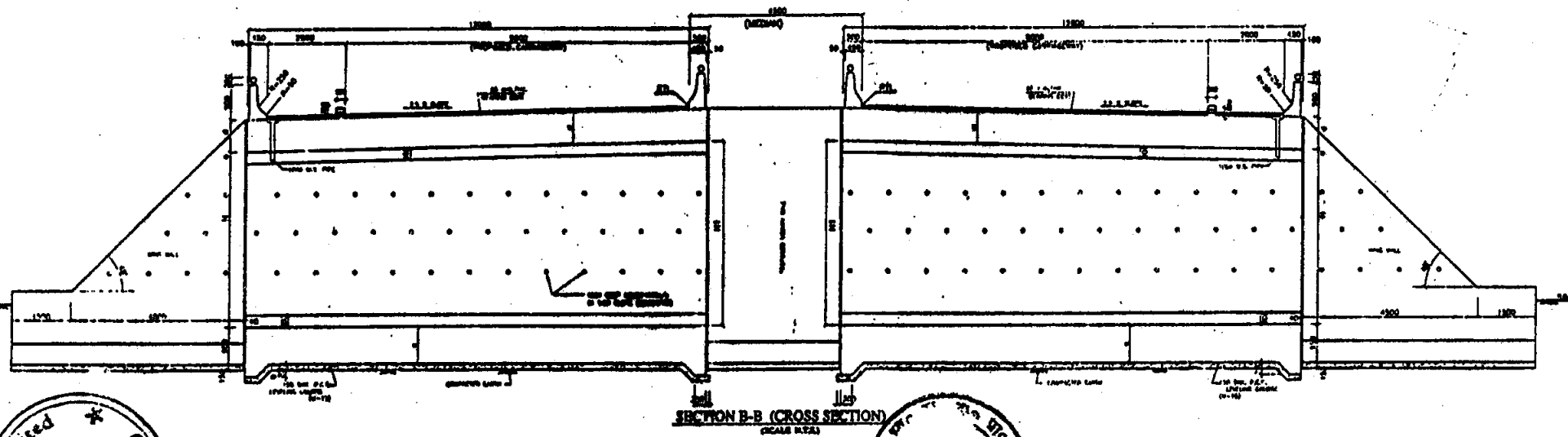
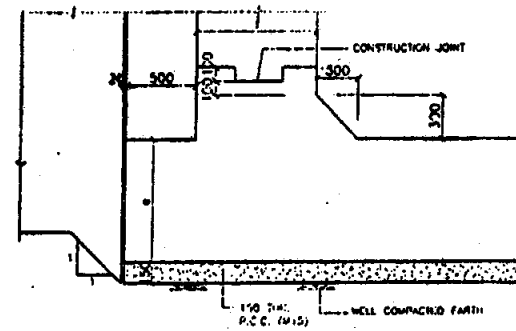
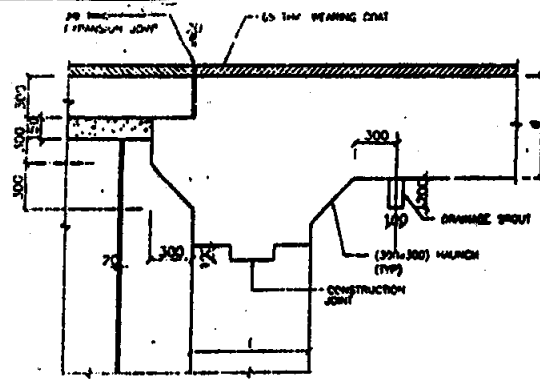
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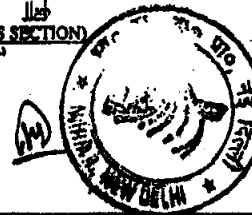
SCHEDULE FOR MINOR BRIDGE

S. NO	CHAINAGE	BRIDGE NO.	SPAN L	H	H1	d	e	f	RL	N.F.L.	RED LV.	FWL LV.	DISCHARGE cum per sec.	NET SRC.
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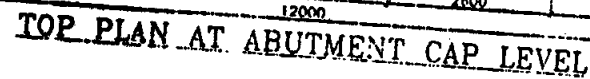
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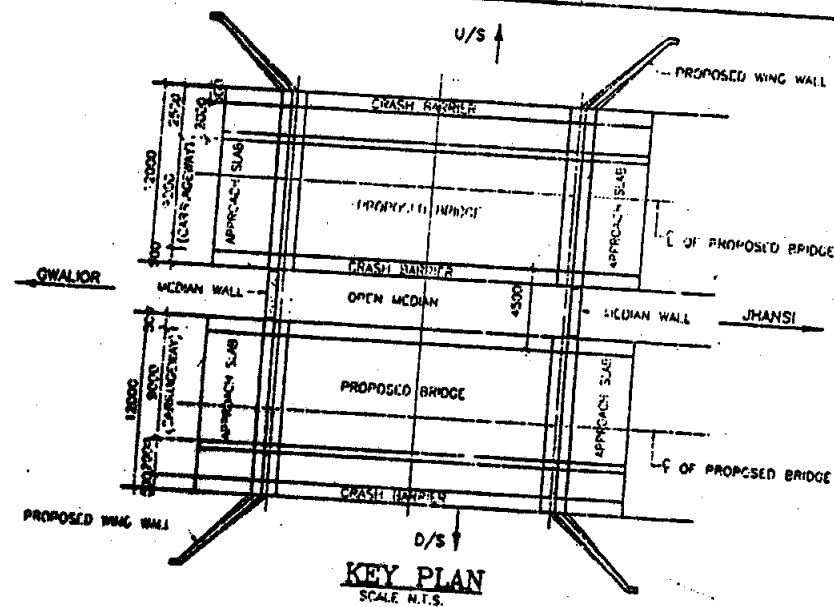
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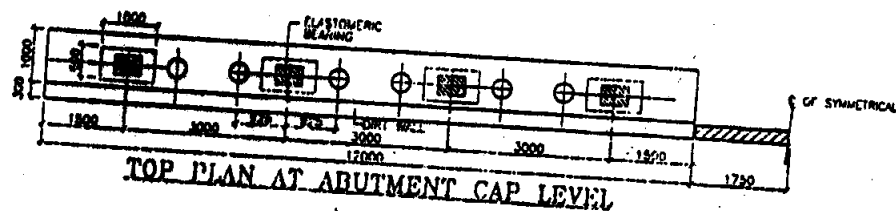
KEY PLAN
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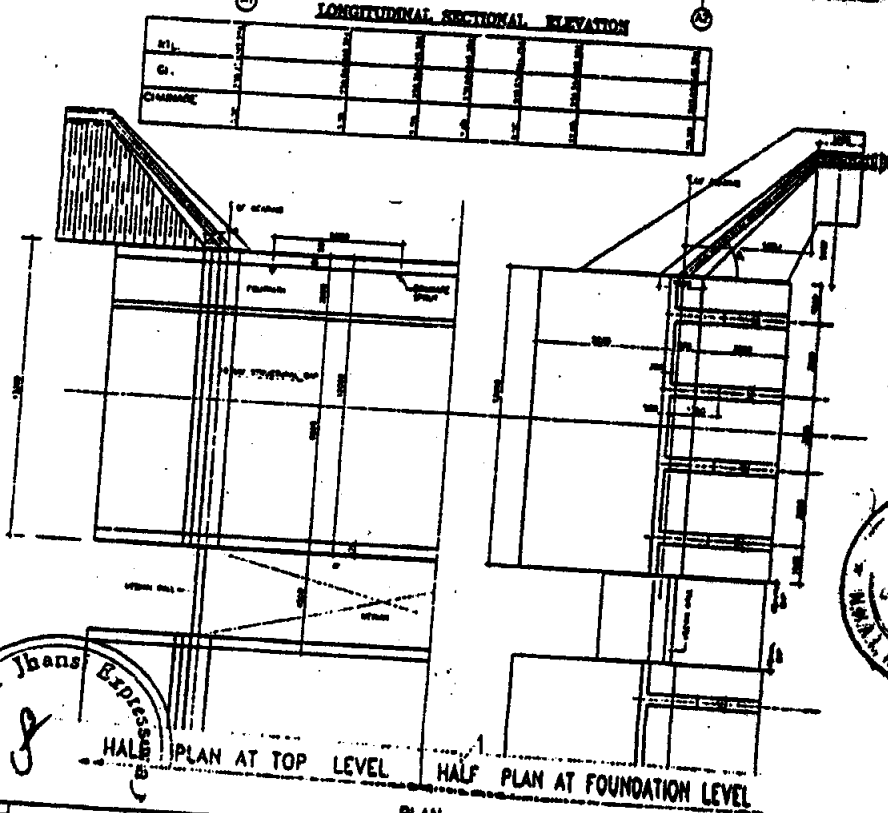
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KEY PLAN
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TOP PLAN AT ABUTMENT CAP LEVEL



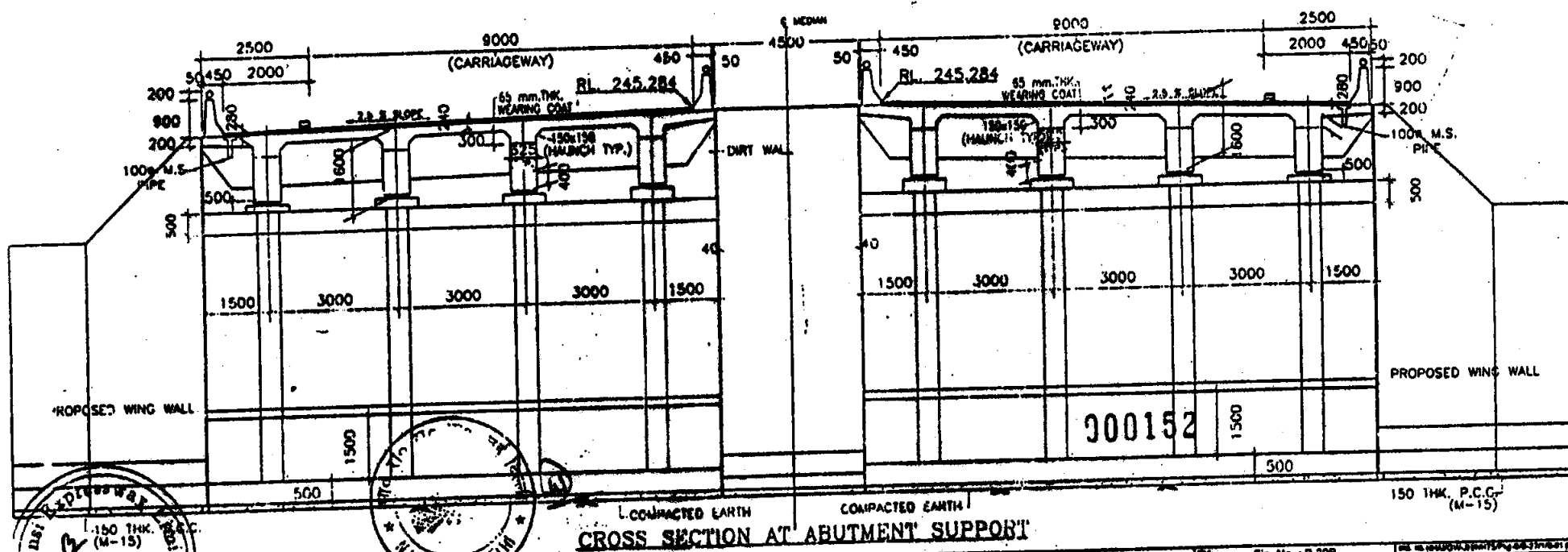
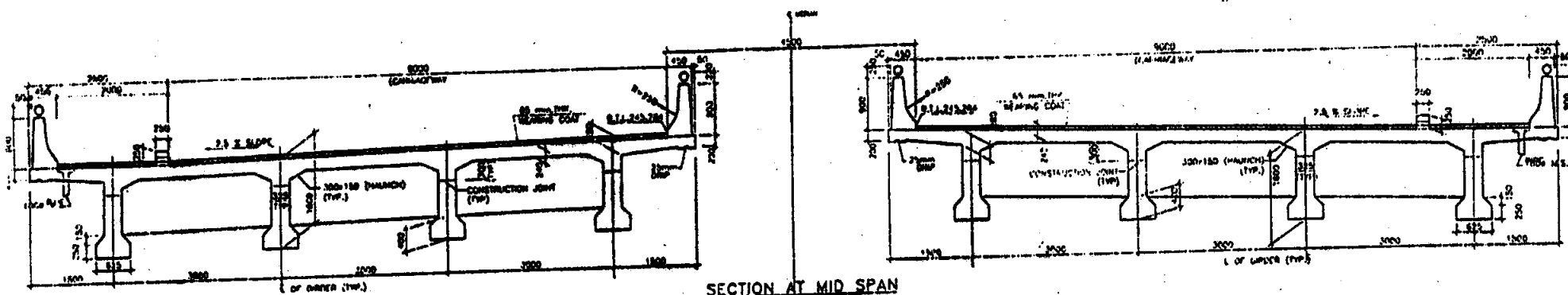
HALF PLAN AT TOP LEVEL

HALF PLAN AT FOUNDATION LEVEL

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NOTES :-

- NOTES** -
1. FOR INFORMATION, ADVISE THAT THE NEW MEMBERS/PORTALS/ CHAIRMAN - JAMES/ 10/27-01
 2. HAS DISCUSSED AND MET WITH A GROUP OF MEMBERS
 3. BOULE POISSON WORKING ON RESEARCH
 4. GROUP DISCUSSING IS CHAIRMAN OF RESEARCH LINE OF WORK
 5. ALL LINE/RESEARCHERS ARE RESEARCH AND THE RESEARCH LINE WORK GROUP
 6. RESEARCH RESEARCHERS OF RESEARCH
 7. RESEARCH RESEARCH LINE WORK GROUP
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Engineers & Management Associates
10000 10th Ave. S.W. 1st Floor
Seattle, WA 98148

H. T. S.

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NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Road Transport & Highways)

OFFICE OF THE SECRETARY, NEW DELHI

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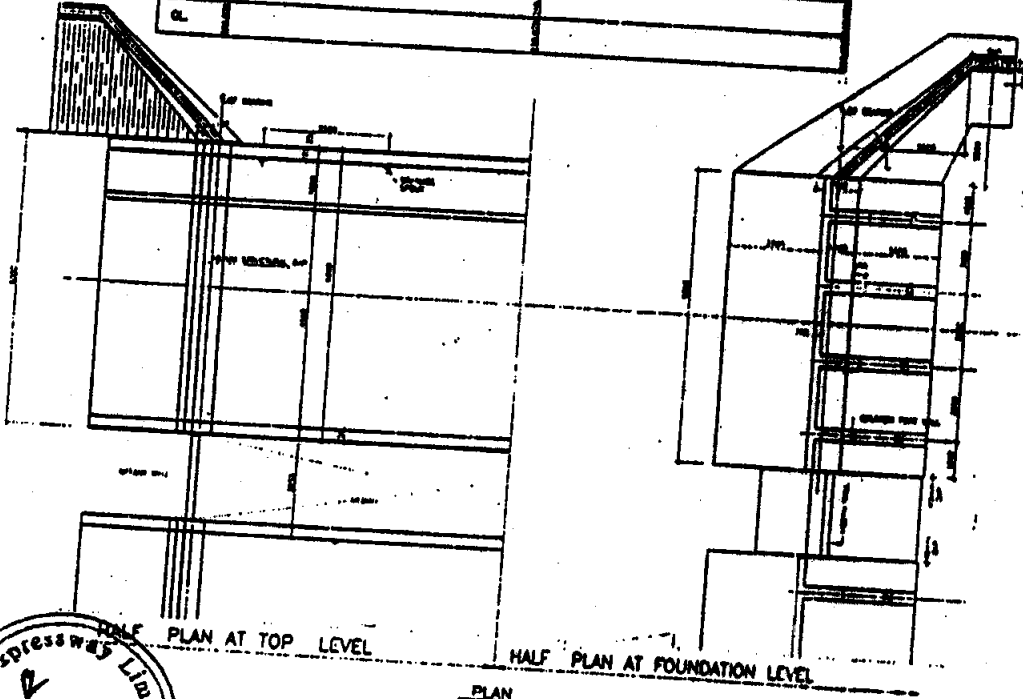
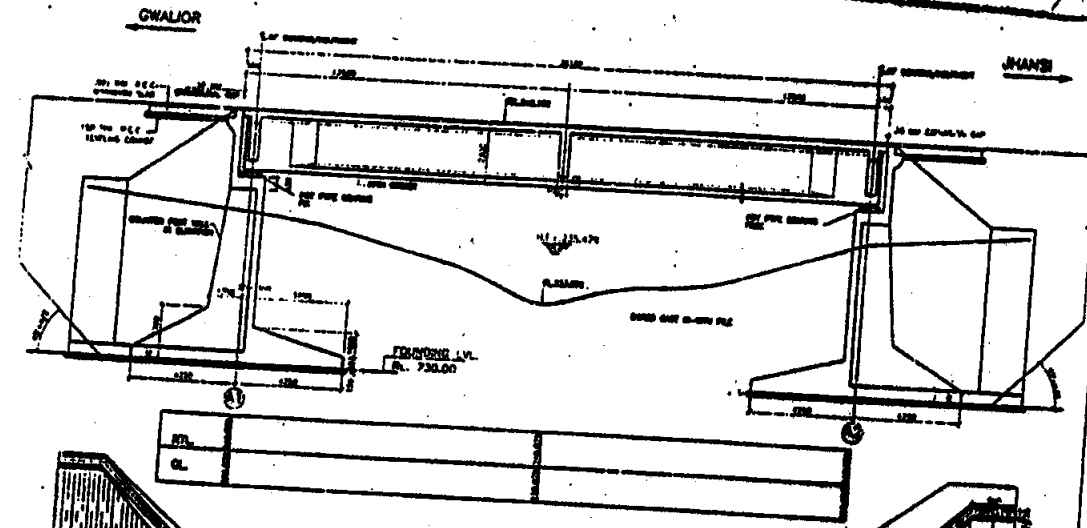
98. THE SECRETARY, NEW DELHI

99. THE SECRETARY, NEW DELHI

100. THE SECRETARY, NEW DELHI

Fig. No. : B-20B
GENERAL ARRANGEMENT DRAWING OF
BRIDGE NO. B-771 FOR 26.4MB

THE AIR FORCE AND AIRSPACE ACTS 1994 (No. 1 of 1994)		
NAME: JOHN, J.	GRADE: MAJOR	POSITION: MAJOR
NAME	GRADE	POSITION
NAME	GRADE	POSITION



Engineers & Management Associates
 100, Main Street, New Delhi, India

N. T. S.

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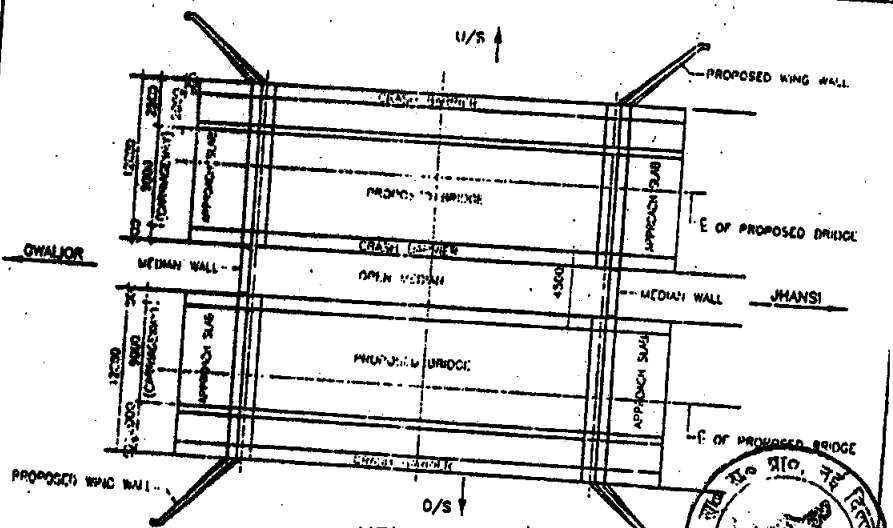
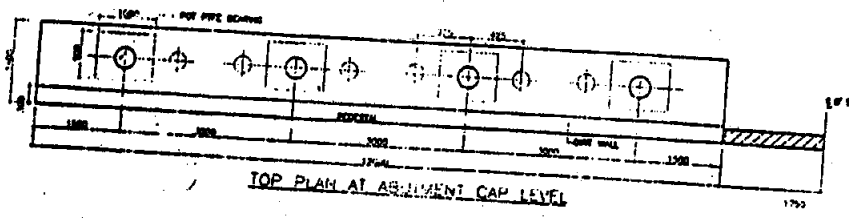
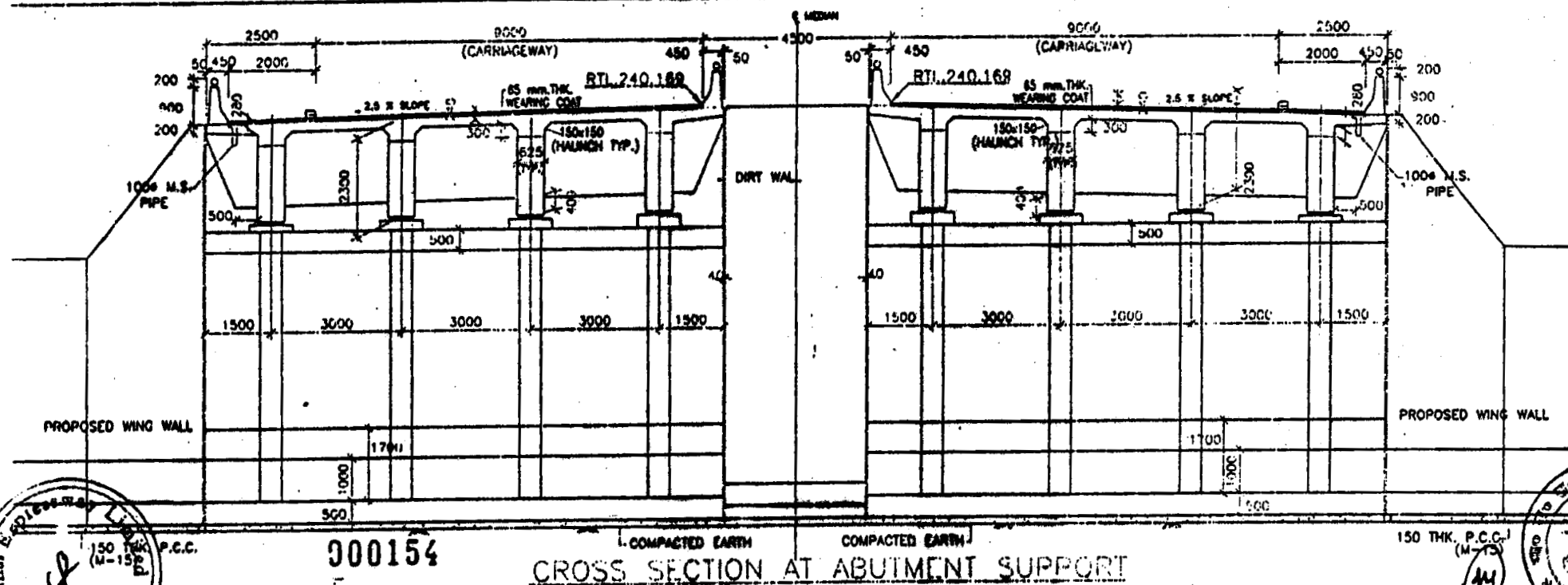
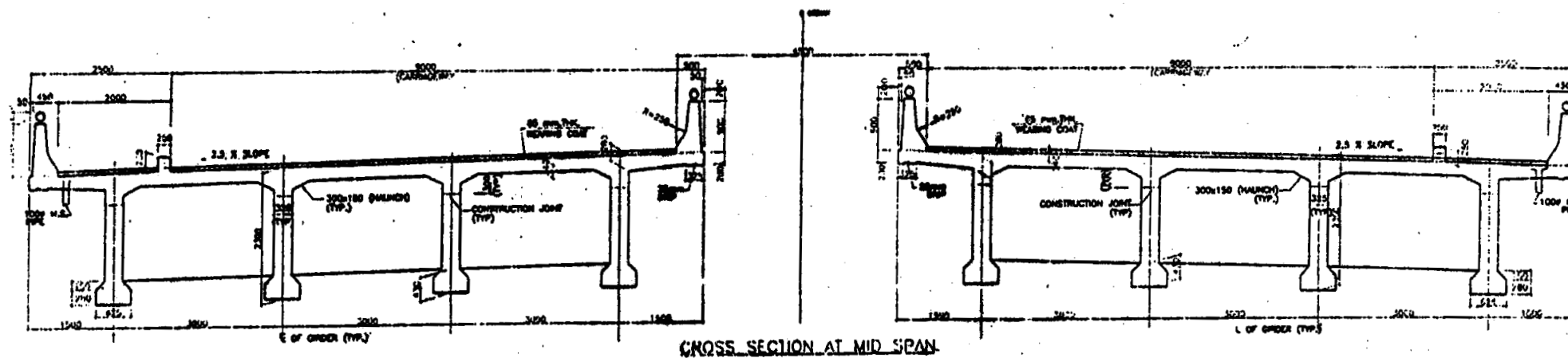
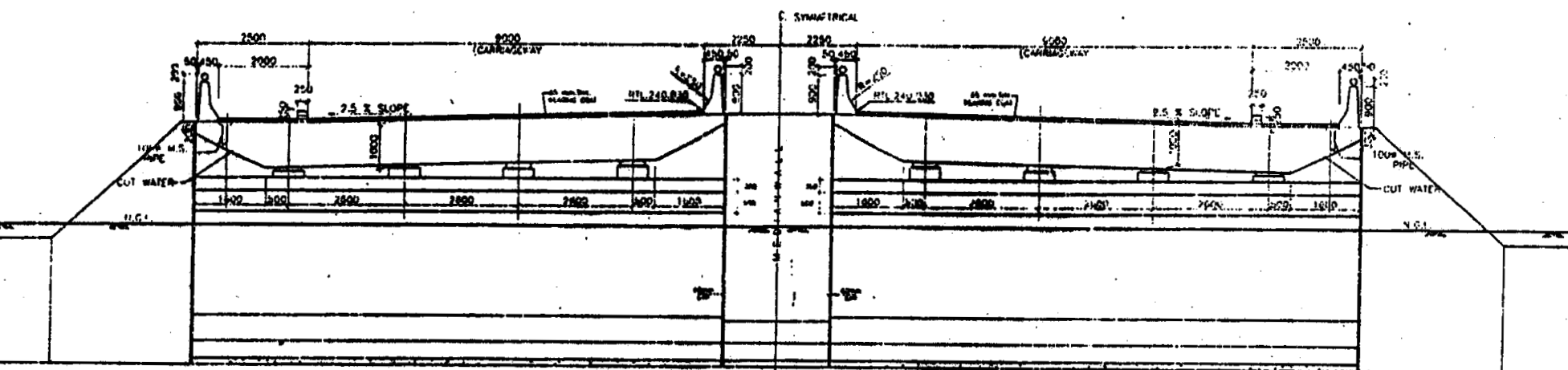
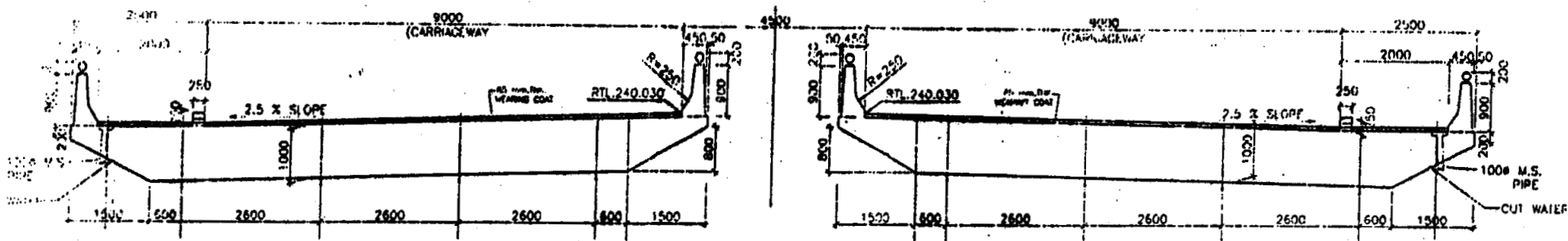


Fig. No.: B-21A



		150 THK. P.C.C. 000154	COMPACTED EARTH CROSS SECTION AT ABUTMENT SUPPORT	COMPACTED EARTH 150 THK. P.C.C.
ENGINEER H. T. S.	DESIGNER H. T. S.	CHECKED H. T. S.	APPROVED H. T. S.	FIG. NO. : B-218 GENERAL ARRANGEMENT DRAWING OF BRIDGE NO. B-218 (AT R.F. 25.00)



000156

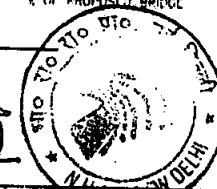
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PLAN

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KEY PLAN
SCALE N.T.S.



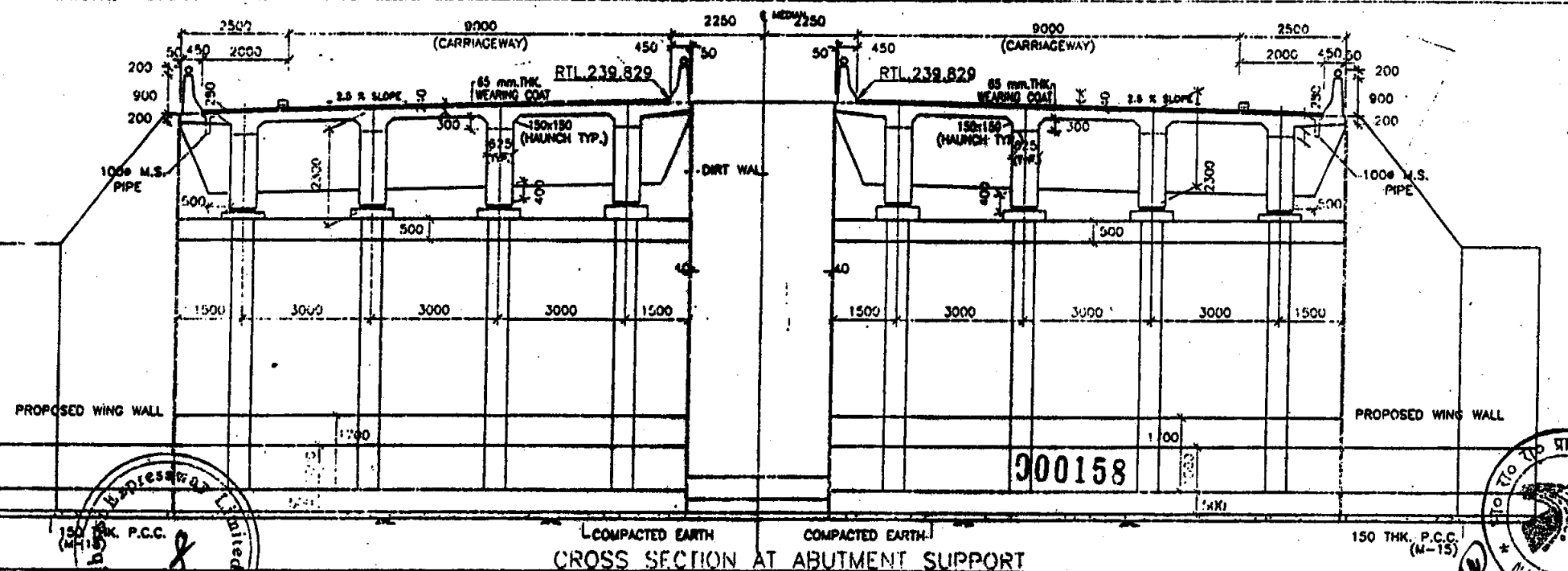
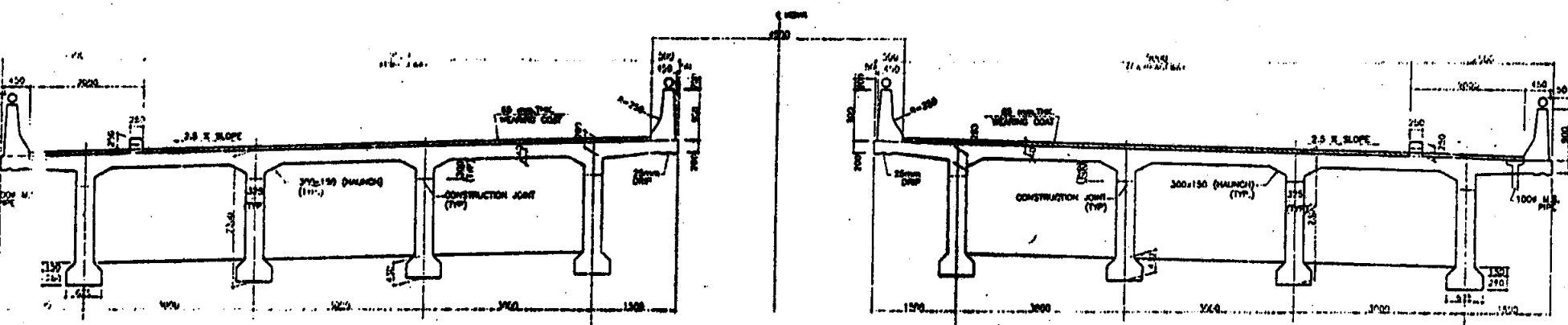
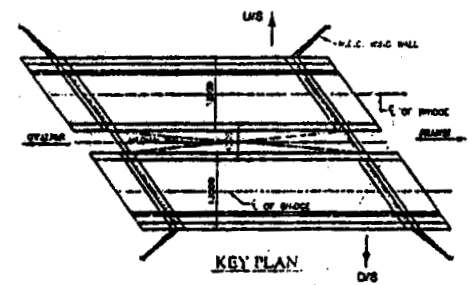
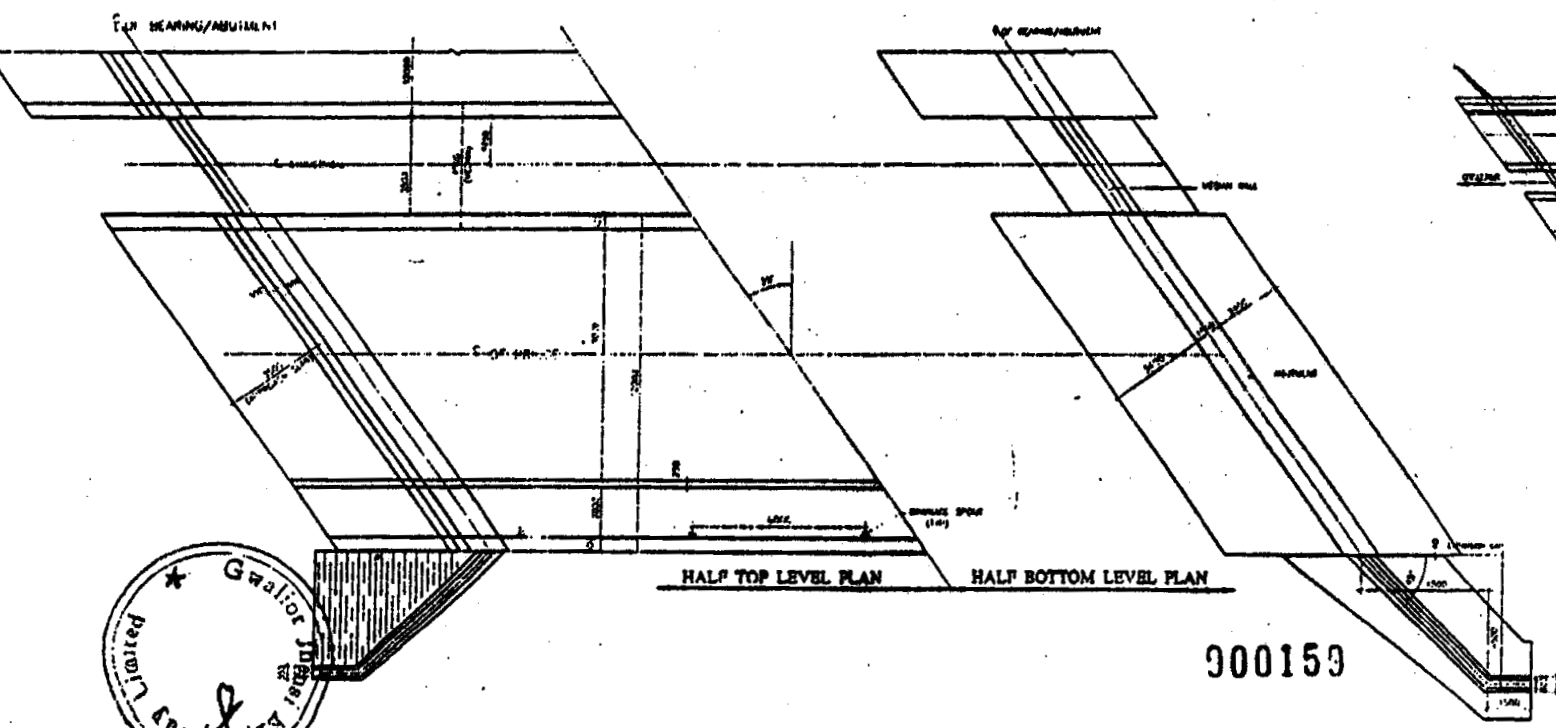
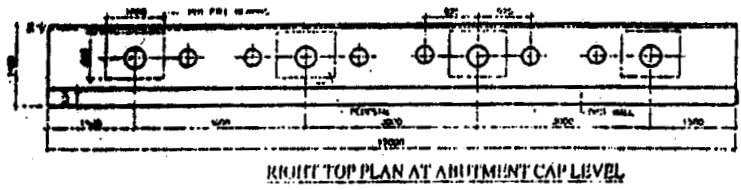
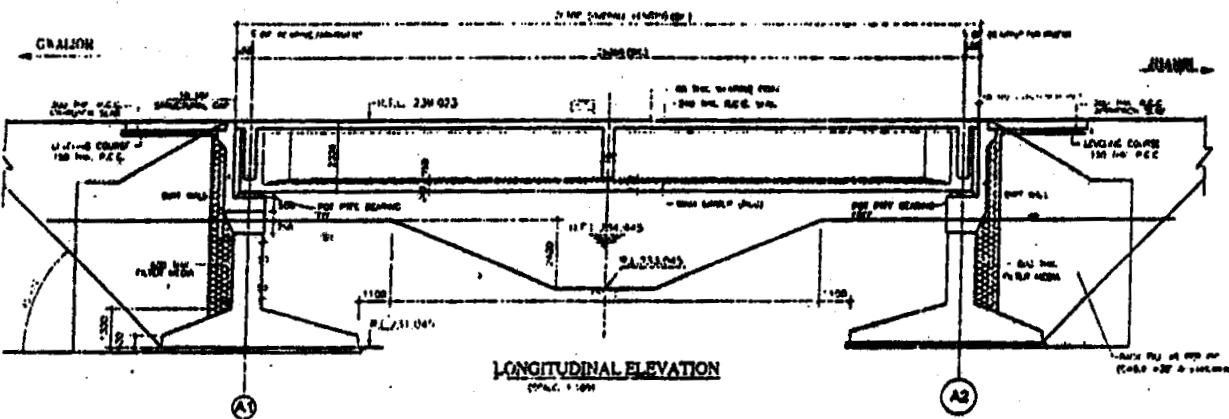


Fig. No. : 8-23B

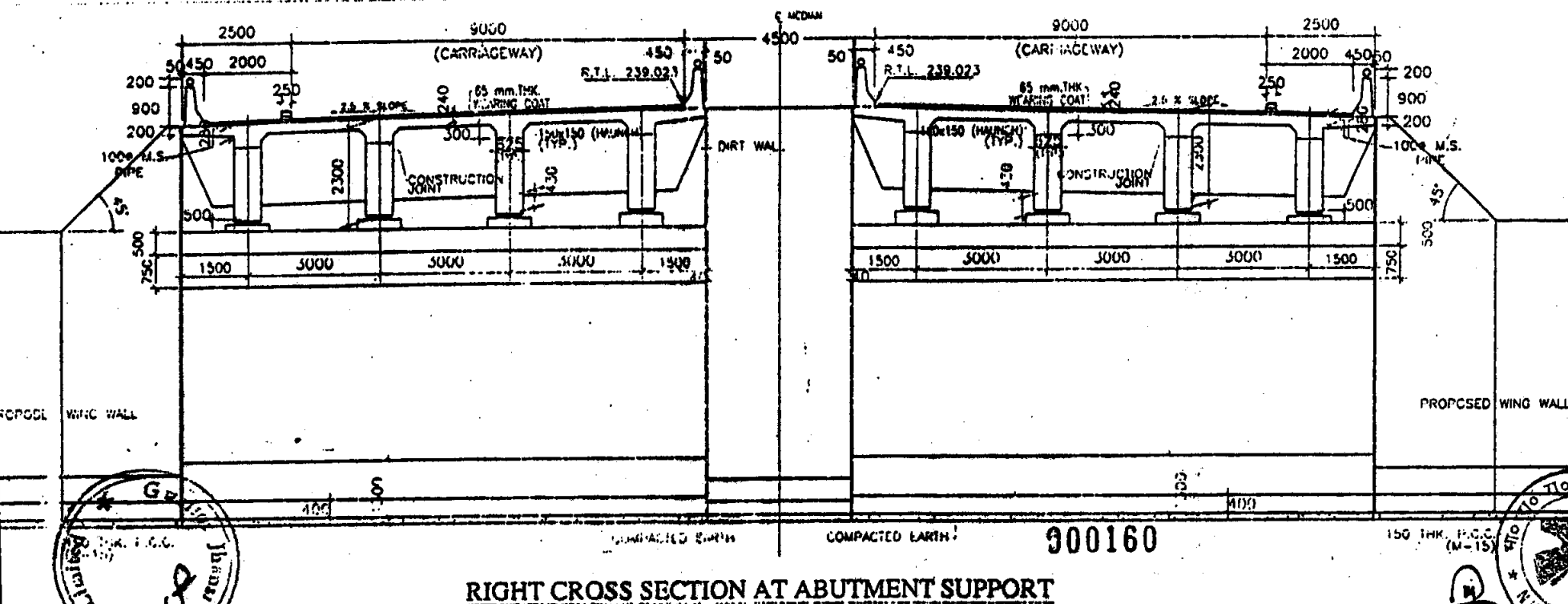
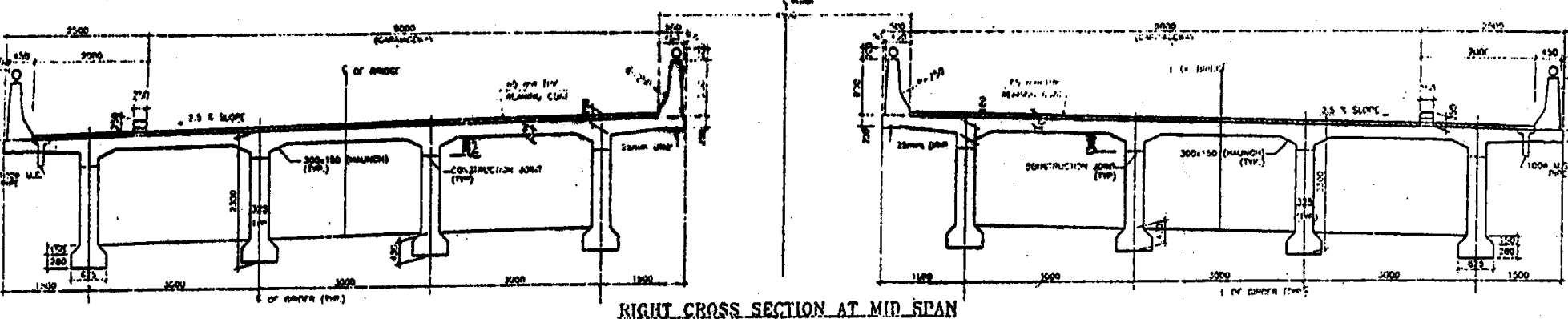
GENERAL ARRANGEMENT DRAWING OF
BRIDGE NO. 9-211 (A) P. 11 (B)

REP. OF HONORARY MEMBERS OF THE U.S. HOUSE OF REPRESENTATIVES (page 1)		
NAME	ADDRESS	CITY
W. W. W. W.	W. W. W. W.	W. W. W. W.



900159



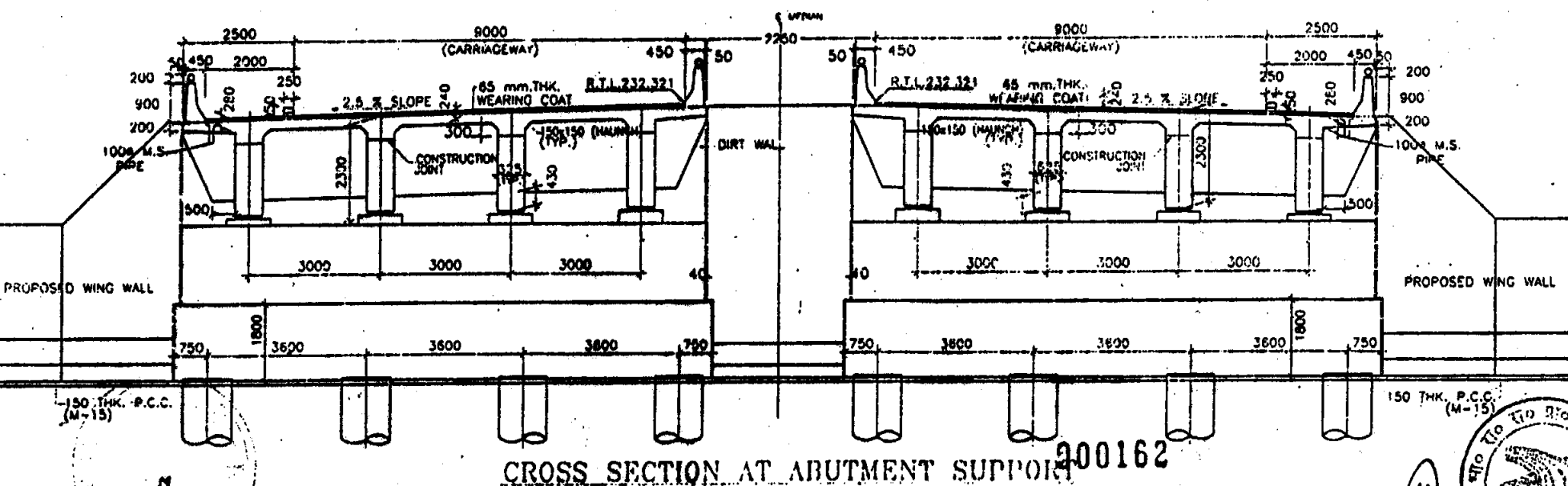
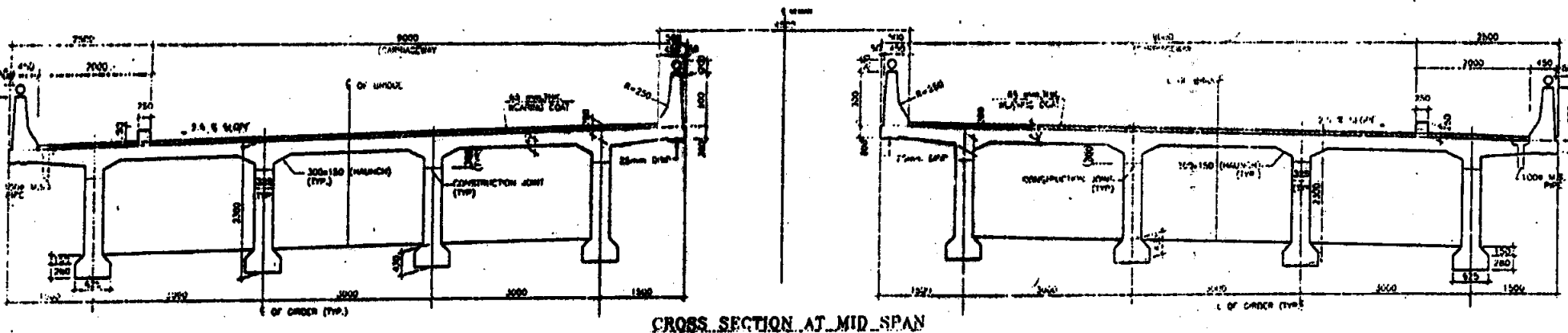


<p>Engineering & Management Department</p> <p>Mr. N. T. S.</p>	<p>Mr. N. T. S.</p>	<p>Mr. N. T. S.</p>	<p>Mr. N. T. S.</p>	<p>Mr. N. T. S.</p>	<p>Mr. N. T. S.</p>	<p>Mr. N. T. S.</p>	<p>Mr. N. T. S.</p>
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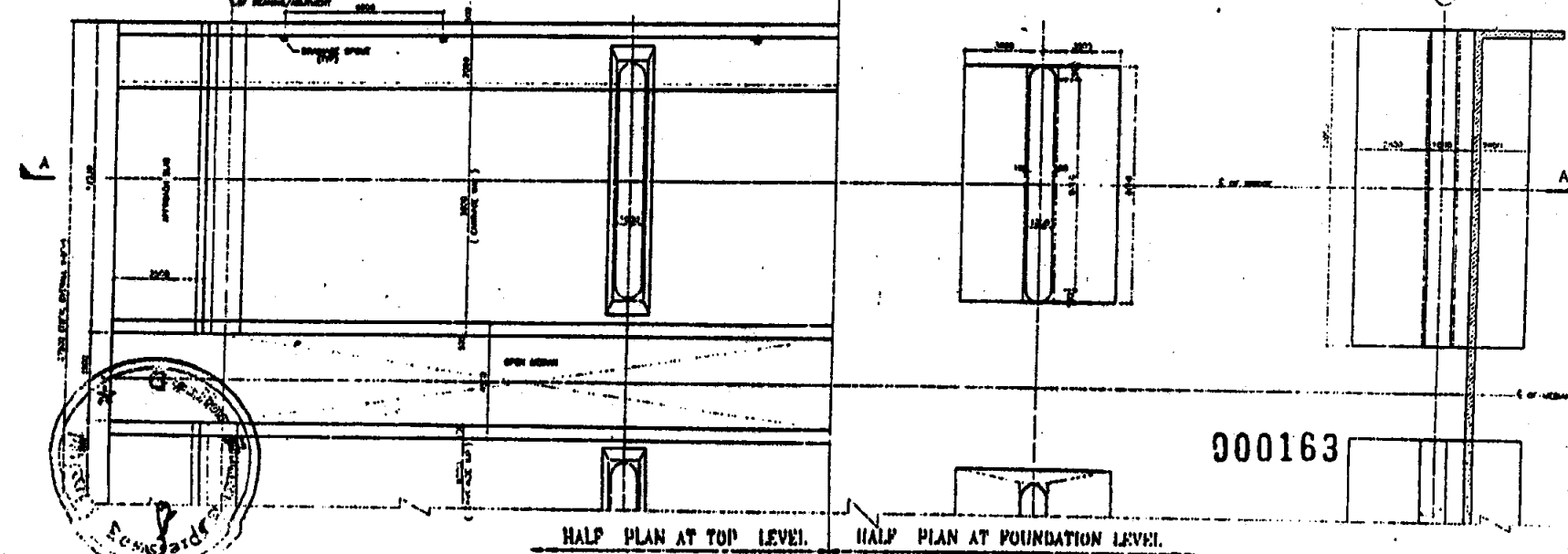
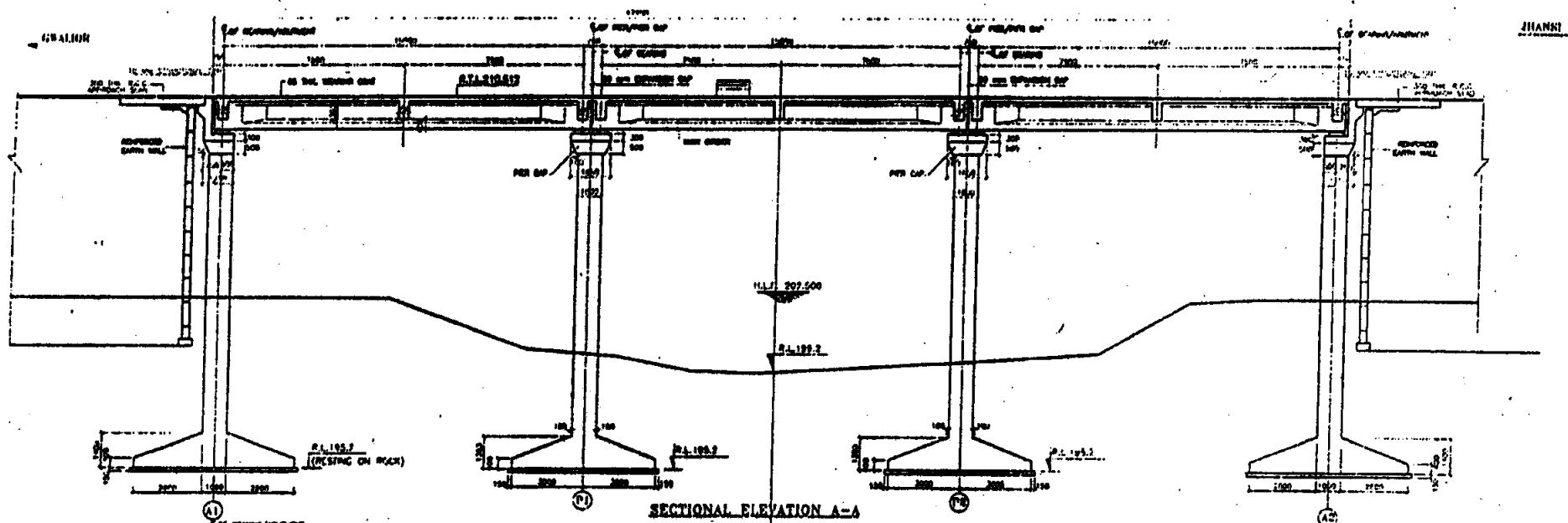
900160

150 THK. P.C.C. (M-15)

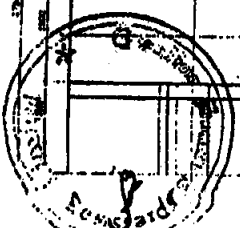
<p>Fig. No. : B-24B</p> <p>GENERAL ARRANGEMENT DRAWING OF</p> <p>RAILWAY BRIDGE NO. 5001 AT STA. 23.774</p>	<p>DESIGNED BY</p> <p>CHECKED BY</p> <p>APPROVED BY</p>	<p>Mr. N. T. S.</p> <p>Mr. N. T. S.</p> <p>Mr. N. T. S.</p>
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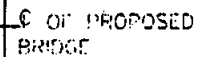
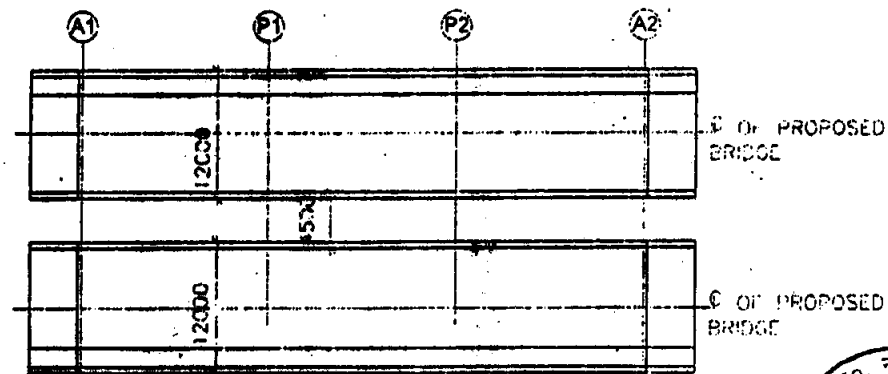
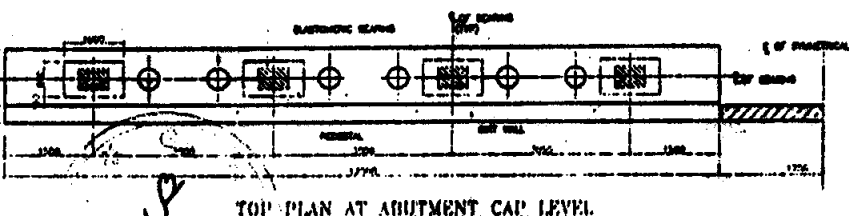
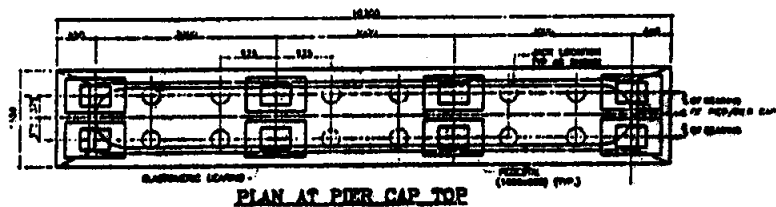
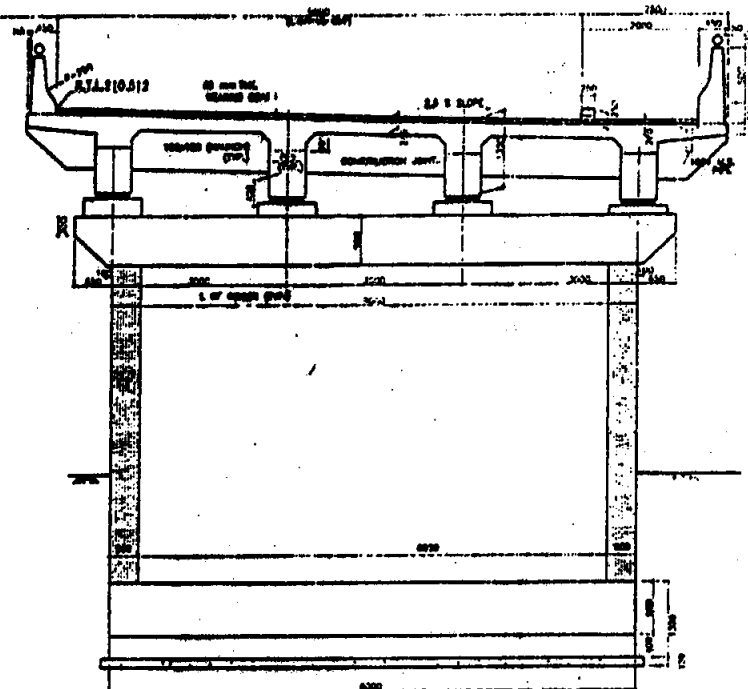
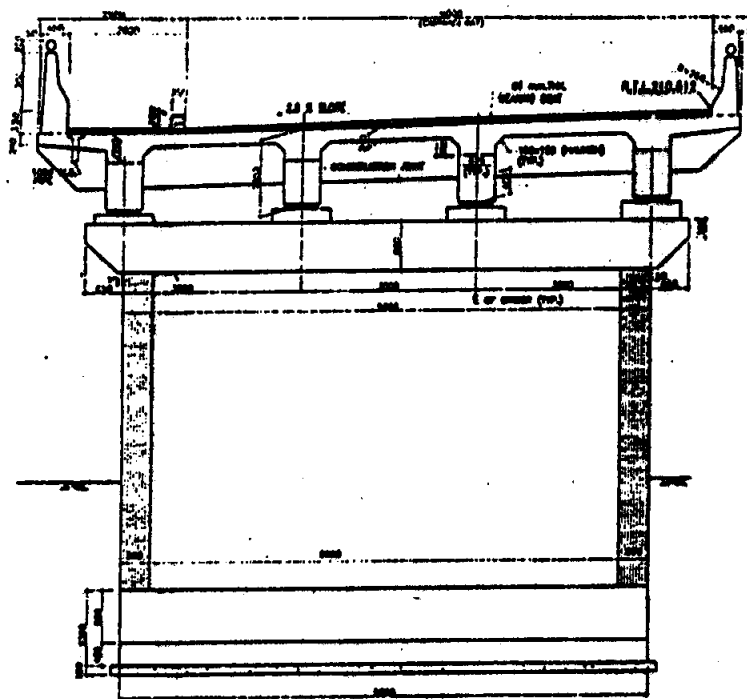
21 Engineers & Management Associates 1000 M.S. PIPE, 1000 M.S. PIPE, 1000 M.S. PIPE 1000 M.S. PIPE, 1000 M.S. PIPE, 1000 M.S. PIPE		N. T. S.	200162	MATERIALS AUTHORITY OF INDIA GROUP OF ROAD TRANSPORT & INFRASTRUCTURE 1000 M.S. PIPE, 1000 M.S. PIPE, 1000 M.S. PIPE 1000 M.S. PIPE, 1000 M.S. PIPE, 1000 M.S. PIPE	Fig. No. 18-258 GENERAL ARRANGEMENT DRAWING OF BRIDGE ON CANAL NO. 5-301 (AT KM 35.62)	1000 M.S. PIPE, 1000 M.S. PIPE, 1000 M.S. PIPE 1000 M.S. PIPE, 1000 M.S. PIPE, 1000 M.S. PIPE
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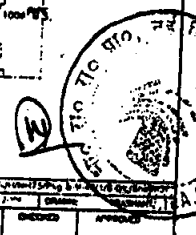
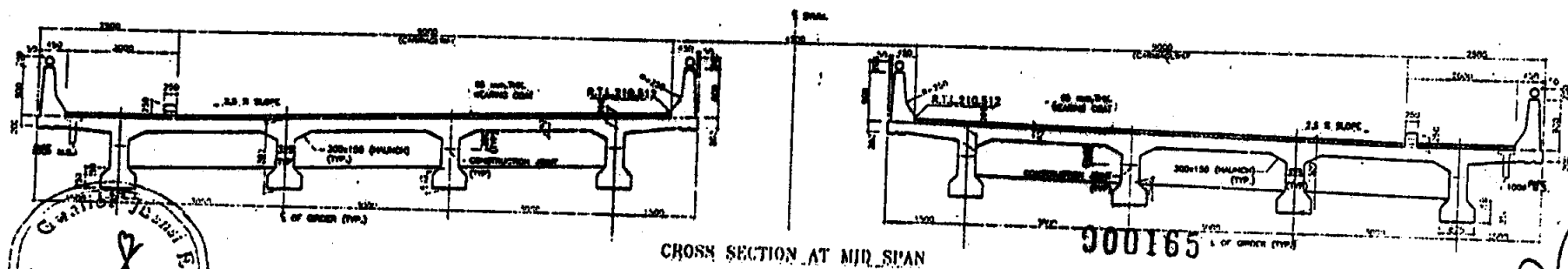
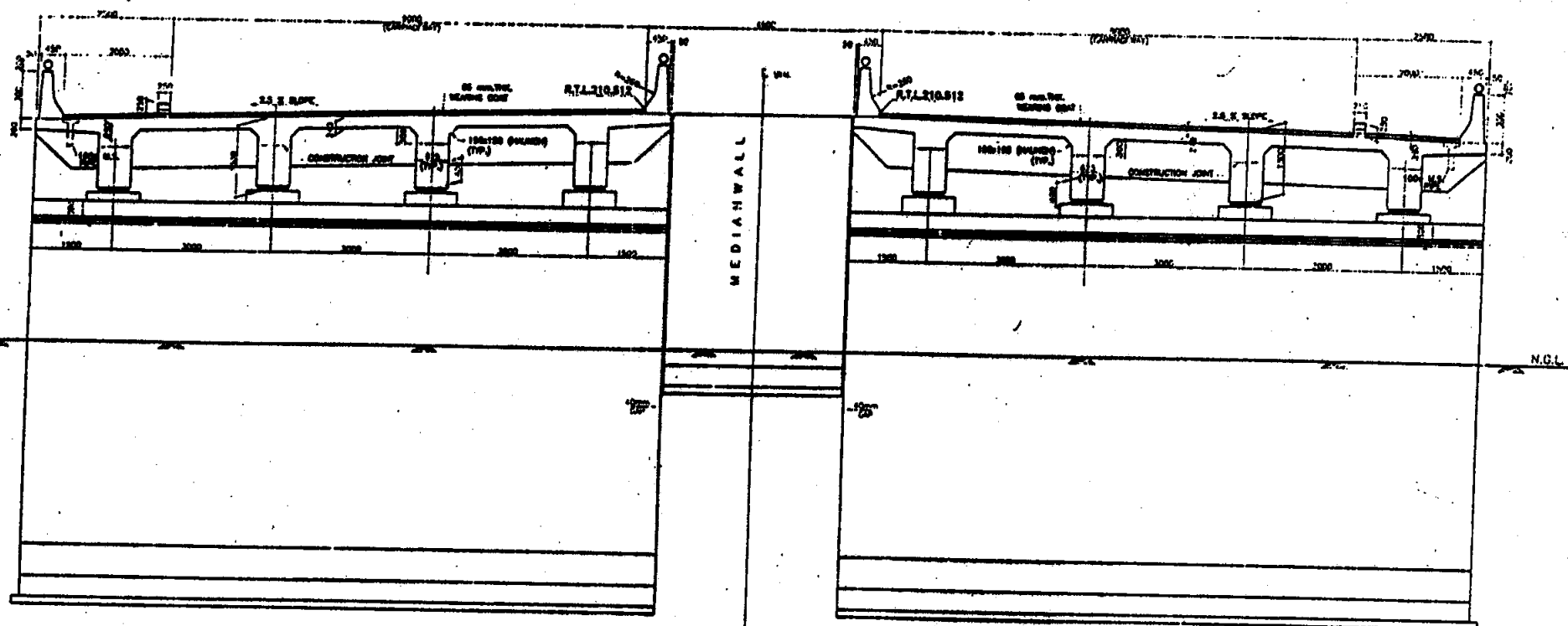


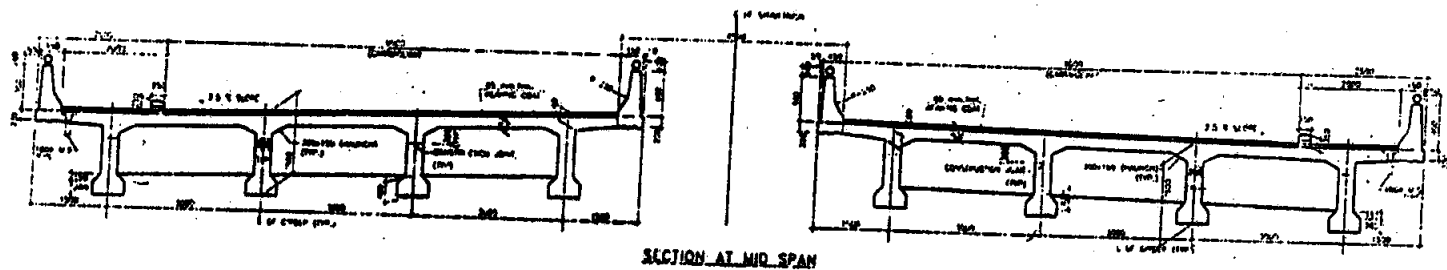
<p>Fig. No. : 8-26A</p> <p>GENERAL ARRANGEMENT DRAWING OF</p> <p>SPICE PILL 9-4011 SET 01 AT 340</p>	<p>REVISION</p> <p>DATE</p> <p>BY</p> <p>CHKD</p> <p>APPROVED</p>
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000164
KEY PLAN

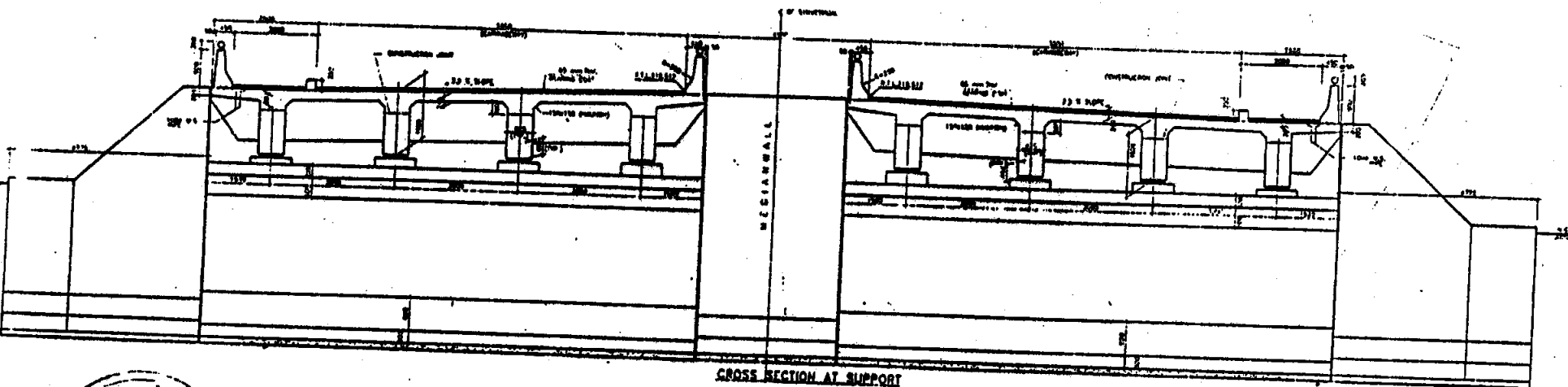
		NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (Part of the U.S. Department of Commerce)		Fig. No. : B-258 GENERAL ARRANGEMENT DRAWING OF BRIDGE NO. B-481 (AT 106 47.540)		Date: _____ Drawn by: _____ Checked by: _____ Approved by: _____	
Title: Engineering & Management Associates Address: 10000 Rockville Pike, Suite 1000 City: Rockville, Maryland 20850		Name: M. T. S.		Date: _____ Drawn by: _____ Checked by: _____ Approved by: _____		Date: _____ Drawn by: _____ Checked by: _____ Approved by: _____	





SECTION AT MID SPAN

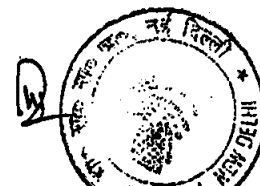
SECTION AT MID SPAN

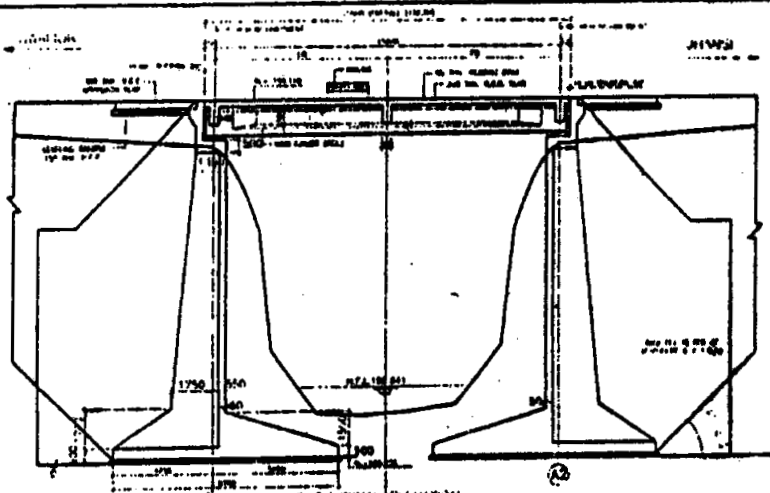


CROSS SECTION AT SUPPORT

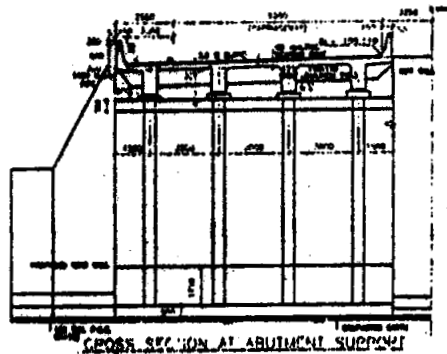
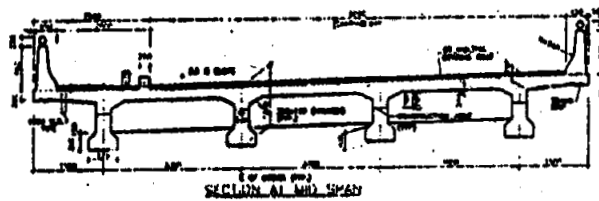
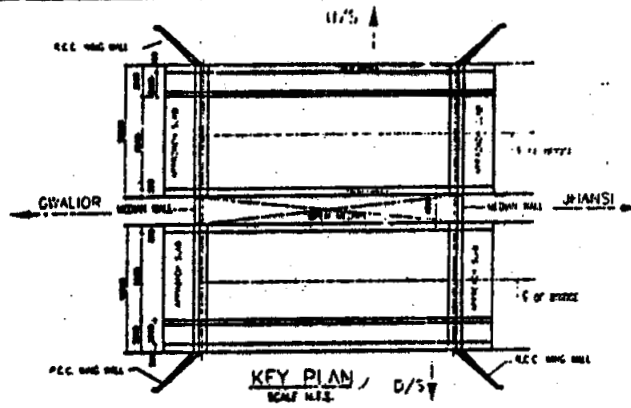
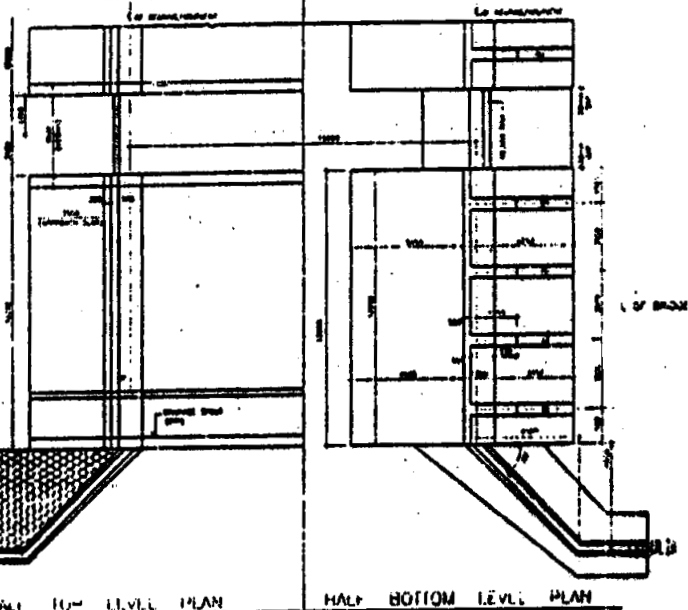


300167

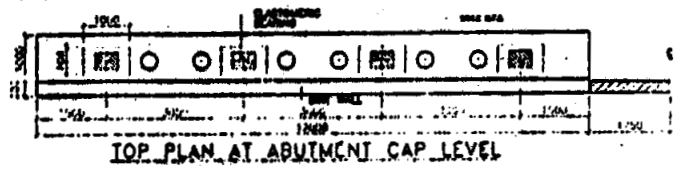




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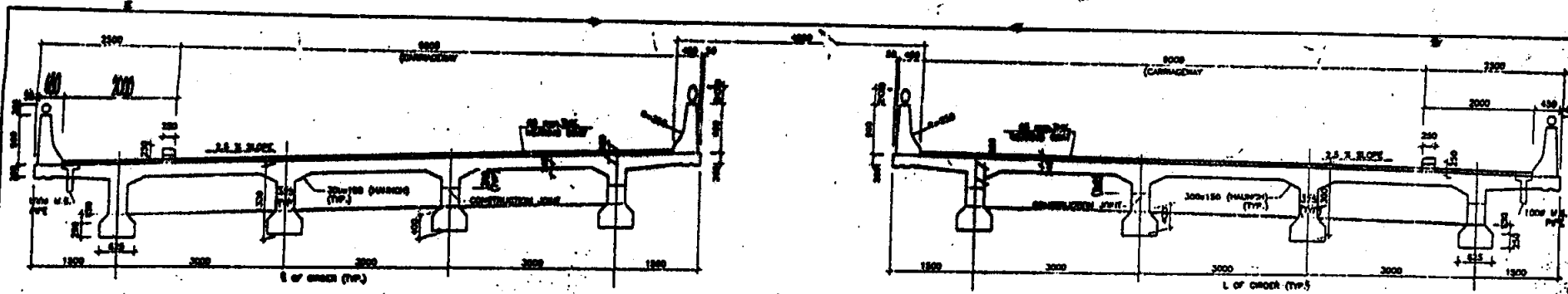


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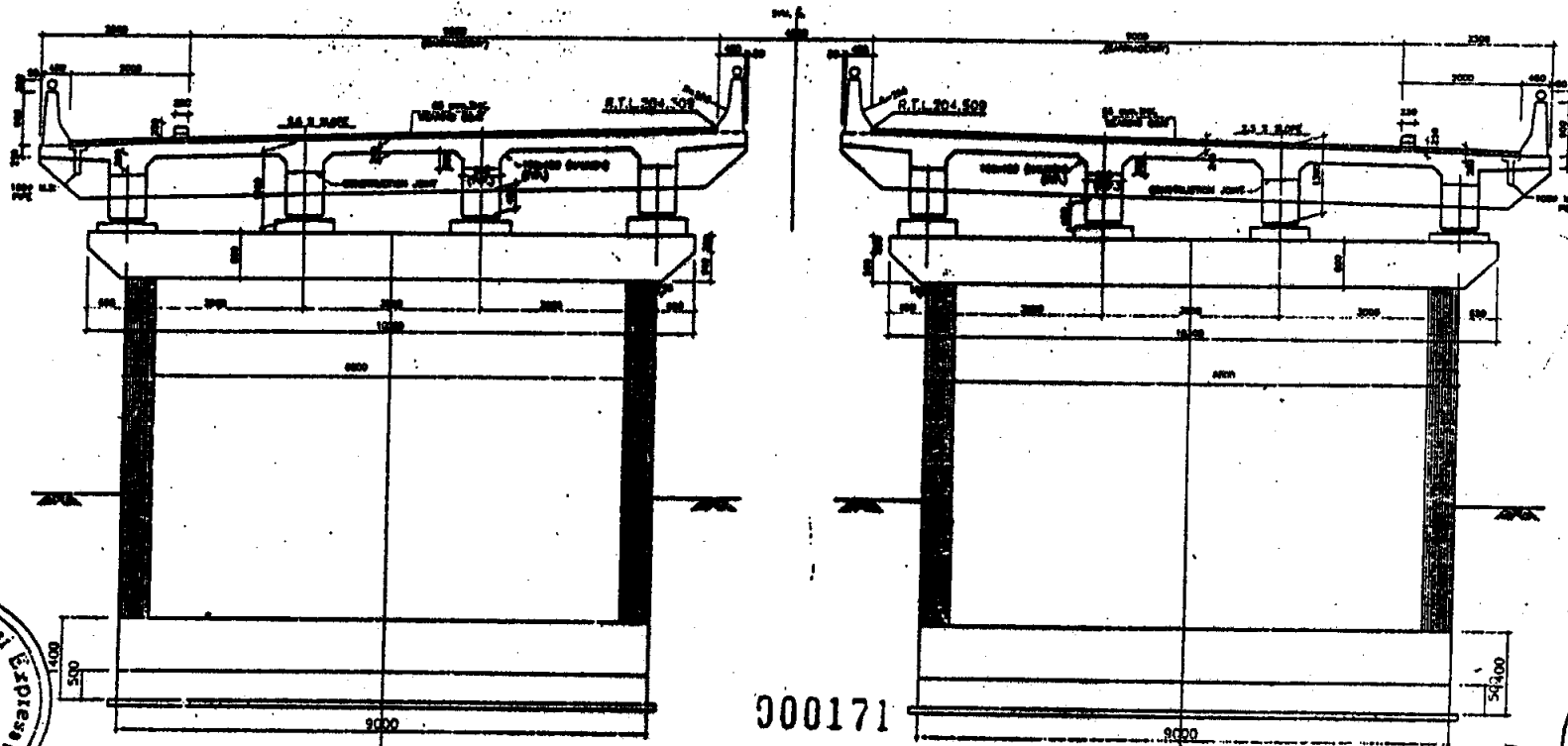
NATIONAL INSTITUTE OF TECHNOLOGY
Kharagpur

Fig. No. B-28
REVISION ARRANGEMENT (DRAWING) FOR
STRUCTURE AND PARTIAL SET 63 646

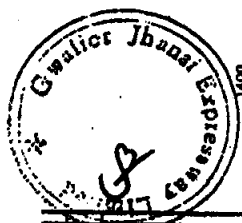
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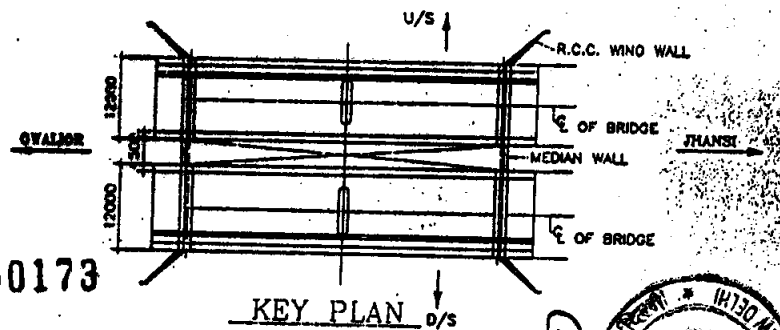
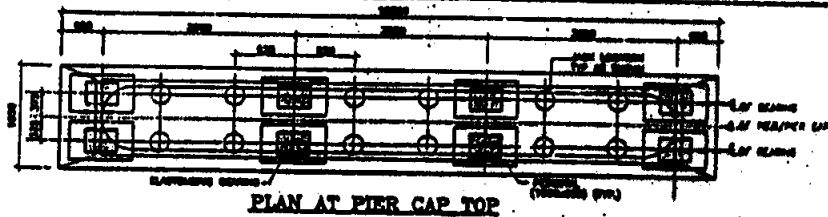
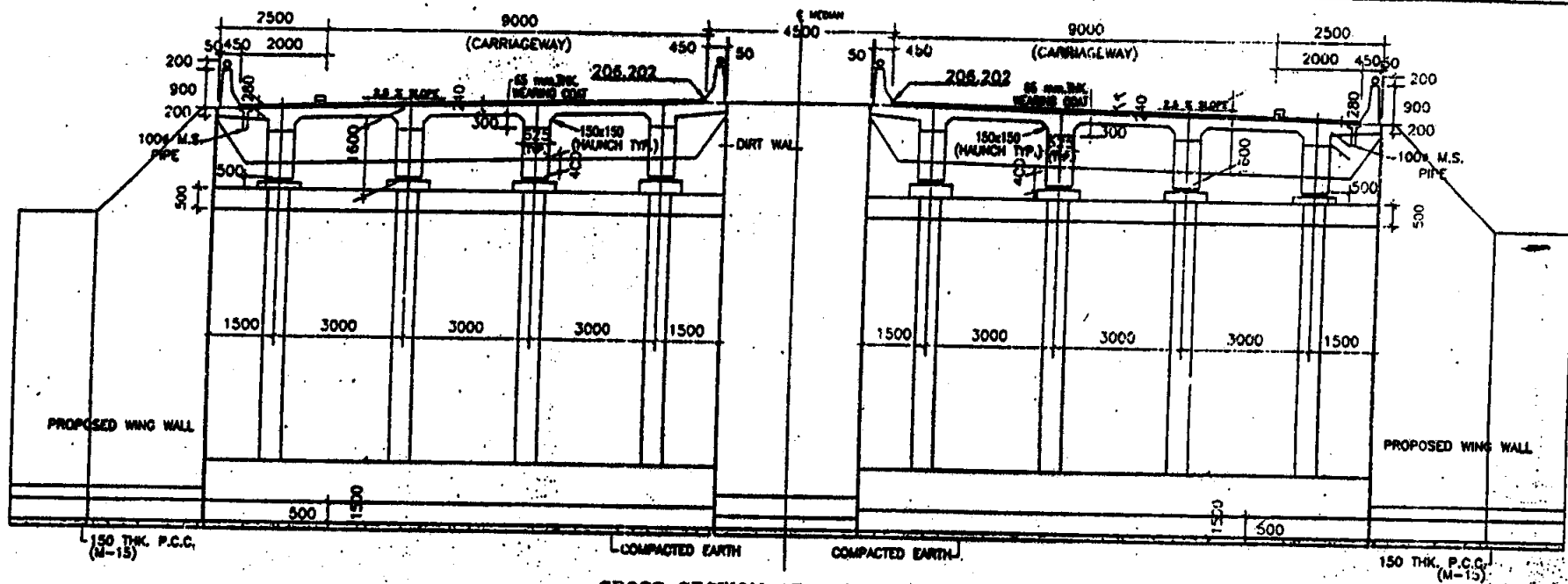
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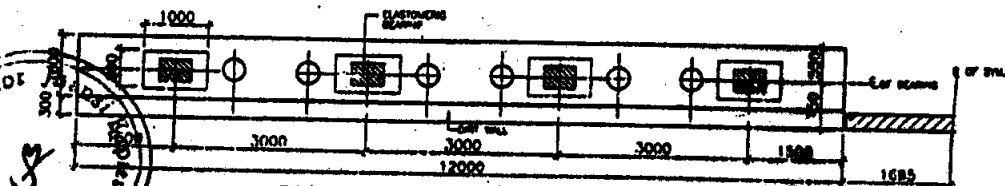
SECTION AT PIER SUPPORT



DESIGNER EA Engineers & Management Associates 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000		H. T. S.	APPROVED SPECIAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport & Highways)	Fig. No. : B-29C ORIGINAL INSTRUMENT DRAWING OF BRIDGE NO. 84911 AND NO. 84912	THE MANAGER, PUBLIC WORKS DEPARTMENT Gwalior, M.P.
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000173



2A

Engineers & Management Associates

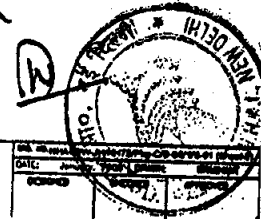
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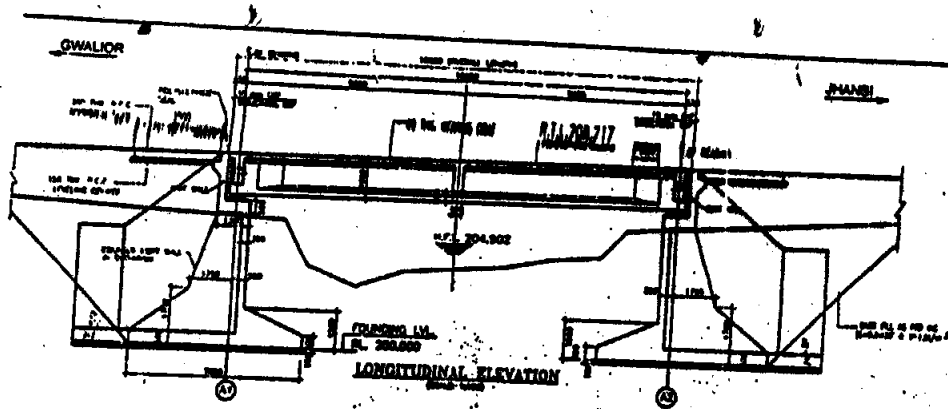
REVISION	DATE	BY	CHKD.

GENERAL ARRANGEMENT DRAWING OF BRIDGE

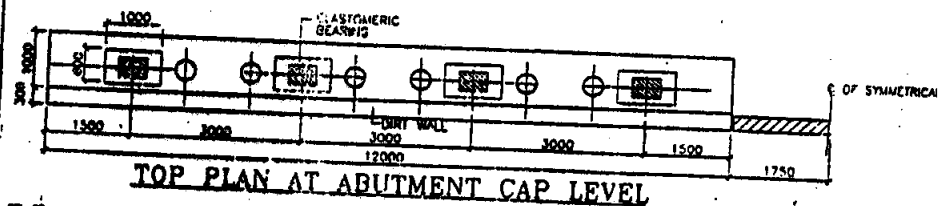
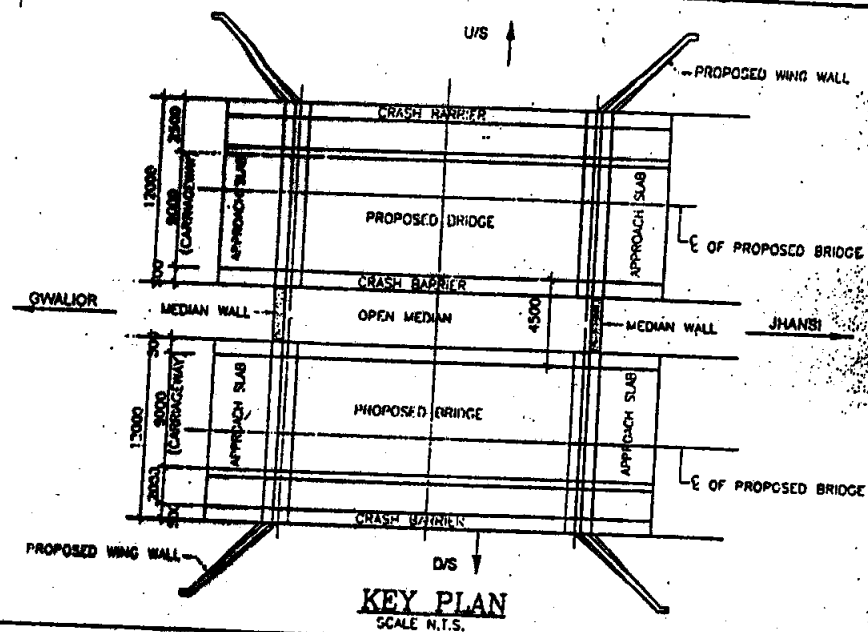
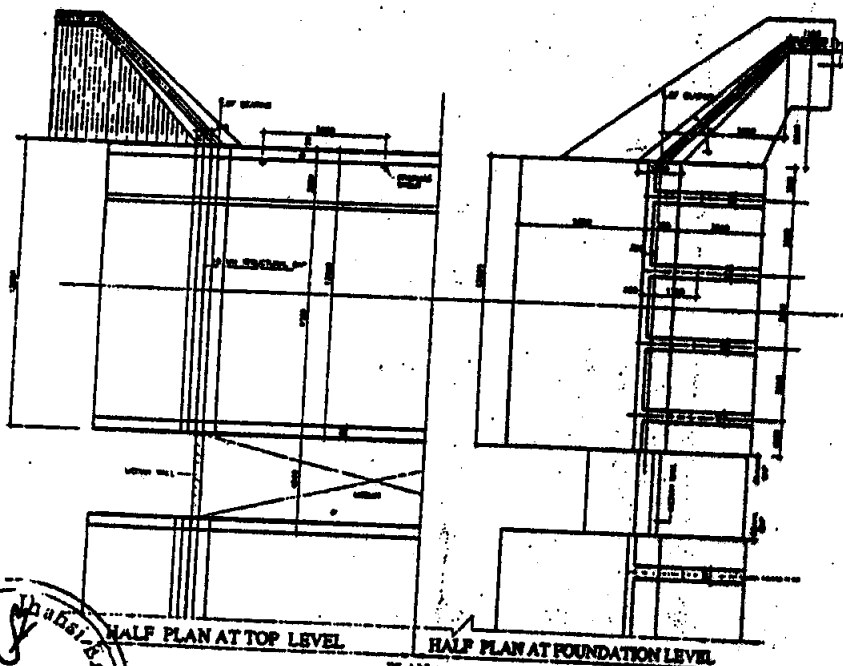
Fig. No. : B-308

GENERAL ARRANGEMENT DRAWING OF BRIDGE





ITEM	DESCRIPTION	QUANTITY	UNIT
1.	CONCRETE	1.00	CUM
2.	STEEL	1.00	TONS
3.	CRASH BARRIER	1.00	M
4.	CRASH BARRIER	1.00	M
5.	CRASH BARRIER	1.00	M
6.	CRASH BARRIER	1.00	M
7.	CRASH BARRIER	1.00	M
8.	CRASH BARRIER	1.00	M
9.	CRASH BARRIER	1.00	M
10.	CRASH BARRIER	1.00	M
11.	CRASH BARRIER	1.00	M
12.	CRASH BARRIER	1.00	M
13.	CRASH BARRIER	1.00	M
14.	CRASH BARRIER	1.00	M
15.	CRASH BARRIER	1.00	M
16.	CRASH BARRIER	1.00	M
17.	CRASH BARRIER	1.00	M
18.	CRASH BARRIER	1.00	M
19.	CRASH BARRIER	1.00	M
20.	CRASH BARRIER	1.00	M



300175



Engineers & Management Associates
P.O. Box 100, Gwalior, M.P. 471 001
Gwalior, M.P.

N. T. S.

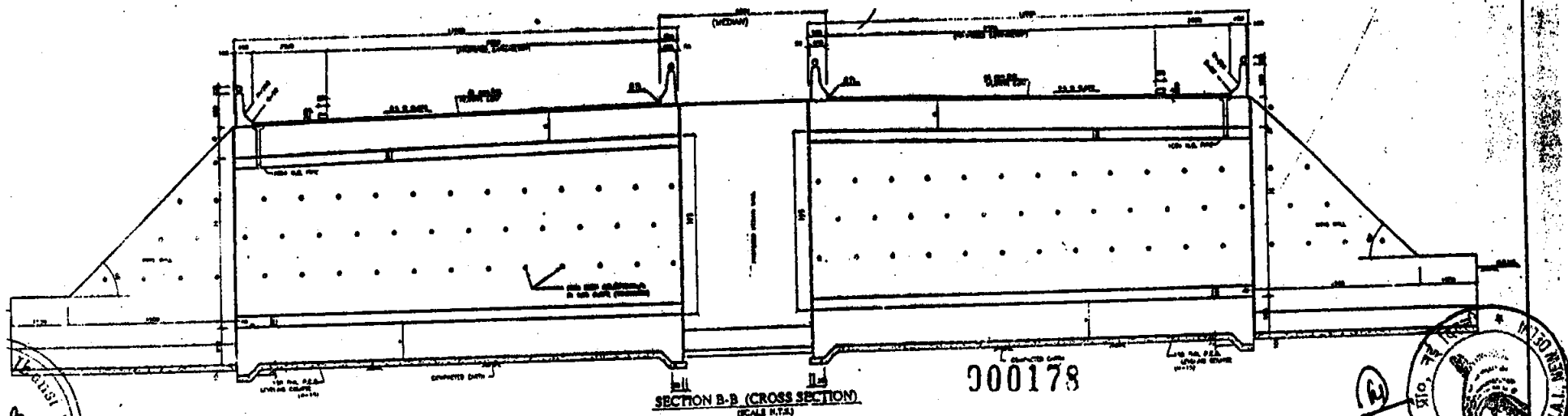
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REGIONAL HIGHWAYS AUTHORITY OF INDIA
(Office at New Delhi & Hyderabad)



Fig. No.: B-31A
GENERAL ARRANGEMENT DRAWING OF
PROPOSED BRIDGE AT NO. 100

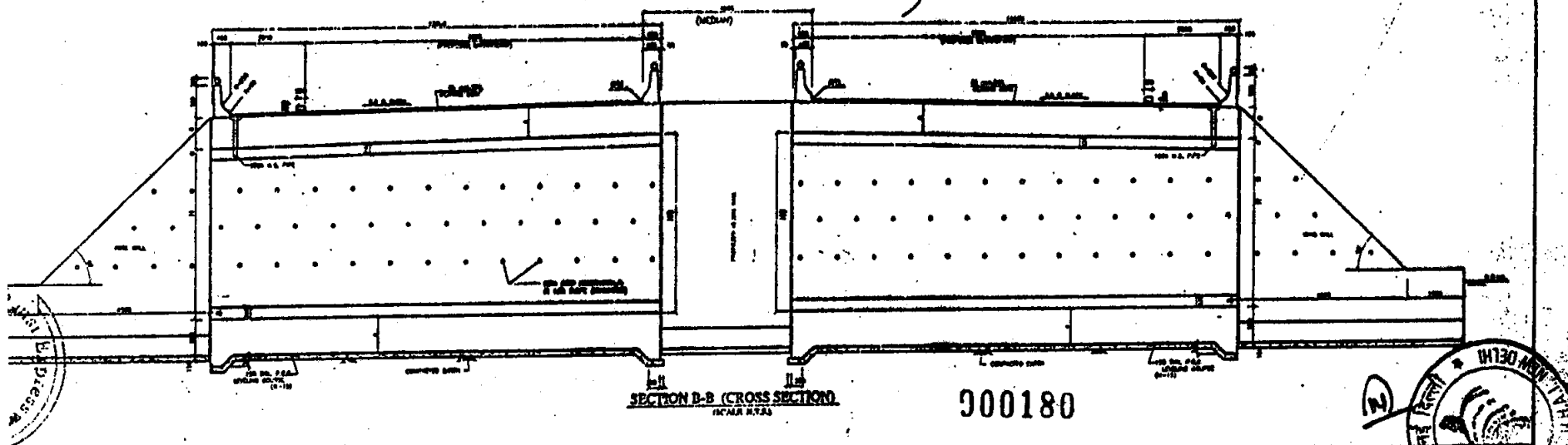
DESIGNED	CHECKED	APPROVED
N. T. S.	R. P. S.	D. S. S.





000175

 <p> Engineers & Management Association <small>100, Park Street, 1st Floor, Park Road, Chennai - 600 005</small> <small>Phone: 22222222, 22222222</small> </p>	PERSON INFORMATION NAME: N. T. S.	DATE :	REG. :	<table border="1"> <tr> <th colspan="2">APPROVAL STATUS</th> </tr> <tr> <td>APPROVED</td> <td>REJECTED</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	APPROVAL STATUS		APPROVED	REJECTED							 <p> NATIONAL INSTITUTE OF DESIGN <small>Ministry of Textiles & Apparel</small> <small>100, Park Street, 1st Floor, Park Road, Chennai - 600 005</small> <small>Phone: 22222222, 22222222</small> </p>	Fig. No. : B-32B GENERAL INFORMATION SHEET (PART OF THE DESIGN)	<table border="1"> <tr> <td>DATE</td> <td>DESIGNER</td> <td>REVIEWER</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	DATE	DESIGNER	REVIEWER						
	APPROVAL STATUS																									
APPROVED	REJECTED																									
DATE	DESIGNER	REVIEWER																								



NAME EN Engineers & Management Associates 1000 15th St., N.W. Washington, D.C. 20004	SSN N. T. S.	DATE 10/15/78	OFFICE EN	AUTHORITY EN	FIG. NO. 1-558 OFFICIAL, AUTHORITY, DURING OF 10/15/78	NAME EN	SSN N. T. S.	DATE 10/15/78	OFFICE EN	AUTHORITY EN	FIG. NO. 1-558 OFFICIAL, AUTHORITY, DURING OF 10/15/78	NAME EN	SSN N. T. S.	DATE 10/15/78	OFFICE EN	AUTHORITY EN	FIG. NO. 1-558 OFFICIAL, AUTHORITY, DURING OF 10/15/78
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LONGITUDINAL ELEVATION

A1 A2

[illegible]

GWALIOR

JHANSI

KEY PLAN

SCALE N.T.S.

TOP PLAN AT ABUTMENT CAP LEVEL

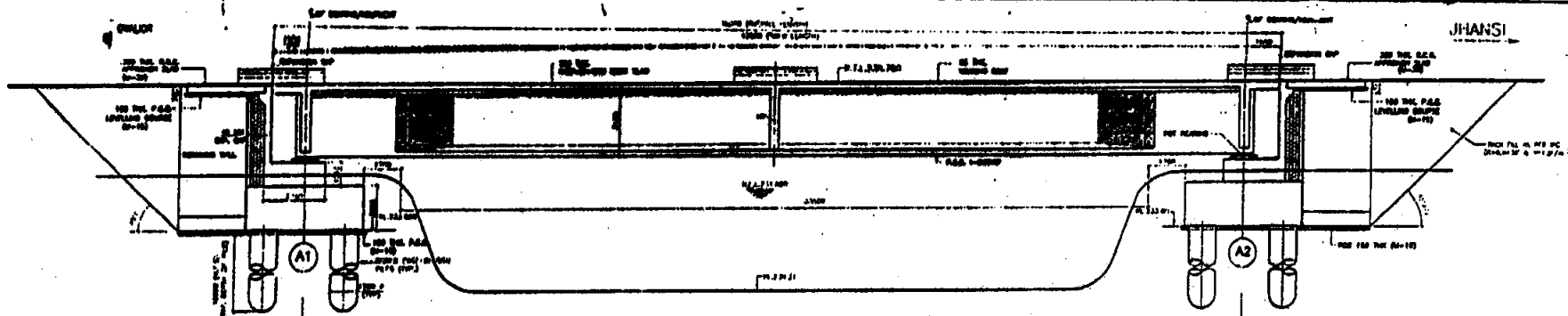
NOTES :-

1. FOR EXISTING BRIDGES REF. QWL NO. 0000/INTS/ QWL OR JUNCTION /JEN-01
2. ALL DIMENSIONS ARE IN MM. & LEVELS ARE IN METERS.
3. DO NOT SCAL. FOLLOW WITHIN DIMENSIONS ONLY.
4. BRIDGE LOCATION IS CHANGE AT CENTER LINE OF ROAD.
5. ALL LEVELS/DIMENSIONS ARE TENTATIVE AND MAY UNDERGO SOME MINOR CHANGE DURING EXECUTION, IF REQUIRED.
6. FOR ROAD TOP LEVEL REFERS TO LEVEL AT INNER MEDIAN EDGE.
7. ADJUSTMENT CAP TOP LEVEL MAY BE VARIED MINORLY TO SUIT BEHAVIOR/PEDESTAL HEIGHT SUBJECTED TO THE APPROVAL OF ENGINEER IN CHARGE.
8. BURNING TIME EXPANSION JOINT SHALL BE PROVIDED.
9. MINIMUM CLEAR SPACE FOR ANY INFRASTRUCTURE BAR SHALL BE 40 mm EXCEPT FOR PAVEMENT WHERE THE MINIMUM CLEAR COVER SHALL BE 75 mm.
10. CONC. COVER SHALL BE 150 FOR SUPERSTRUCTURE, 165 FOR ABUTMENT/ABUTMENT FORMATION, 150 FOR APPROACH SLAB & 140 FOR PEDESTAL.
11. NET SAFE BEARING CAPACITY RECOMMENDED FOUNDATION LEVEL IS 20.00/m/s.

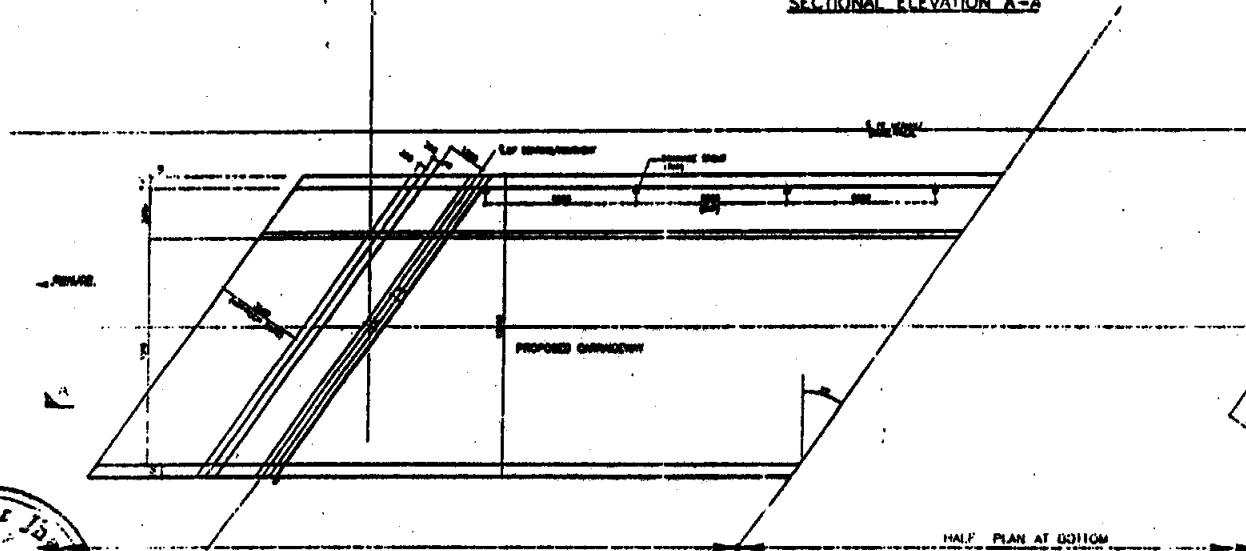
900181

Fig. No. : B-34A

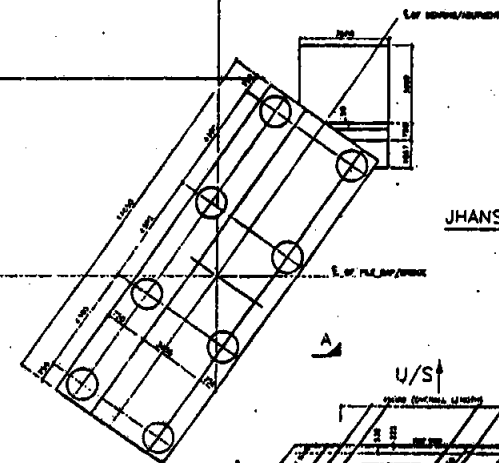
FOR RELEASE, ADDITIONAL INFORMATION FOR AMERICAN OF
CONTRACT AND SUBMITTER FOR THE 2000



SECTIONAL ELEVATION A-A



000183



KEY PLAN



<p>EN</p> <p>Engineers & Management Associates</p> <p>10/10, 1st Floor, 10/10, 1st Floor, 10/10, 1st Floor</p>	<p>N. T. S.</p>	<p>000183</p>	<p>Fig. No. : B-35A</p> <p>GENERAL ARRANGEMENT (PLAN) OF</p> <p>BRIDGE NO. 10/10, 1st Floor, 10/10, 1st Floor</p>	<p>10/10, 1st Floor, 10/10, 1st Floor</p> <p>10/10, 1st Floor, 10/10, 1st Floor</p>
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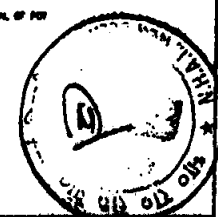
NOTES :-

1. FOR INFORMATION, NOTES SET, AND ALL INFORMATION/CHANGES -JONES /JMS-01
2. ALL CHANGES ARE TO BE MADE AND LISTS ARE TO BE MAINTAINED
3. ON ONE SINGLE, PLEATED WHITE ENVELOPE ONLY.
4. ENVELOPE NUMBER IS CHANGED AT EACH NEW DATE OF CHANGE
5. ALL LETTERS/CHANGES ARE TYPED AND MAY BE WRITTEN
WITH INK OR WITH BLUE OR BLACK COPIER, IF AVAILABLE.
6. FOR FIVE TOP LEFT, FIVE TO THE LEFT, AT EACH NEW DATE.
7. ADDRESS ON TOP LEFT, OF IS WRITTEN ADDRESSED TO THE COMMANDER/PERSONAL, MUST BE ADDED TO THE APPROVAL OF CHANGES IN CHANGE.
8. DURING STOP AND, DATE BETWEEN STOP SHALL BE PROVIDED AS PER
STANDARD FORMS DISPOSITION FOR CHANGES AND DURING THE "STOP" PERIOD IN
DISPOSITION/STOP-STOP DATES 30-11-2000 & 30-09-2000
9. DURING STOP AND, FOR FIVE TOP & ONE TOP LEFT, FOR FIVE TOP & FIVE TOP
& ONE TOP & ONE TOP LEFT, FOR FIVE TOP & ONE TOP LEFT, FOR FIVE TOP & ONE TOP LEFT
10. DURING STOP AND, FOR FIVE TOP & ONE TOP LEFT, FOR FIVE TOP & ONE TOP LEFT, FOR FIVE TOP & ONE TOP LEFT
11. DURING STOP AND, FOR FIVE TOP & ONE TOP LEFT, FOR FIVE TOP & ONE TOP LEFT, FOR FIVE TOP & ONE TOP LEFT
12. LONG ADDRESS ONLY OF FILE/ALPHA, ONLY OF FILE
TO BE ADDED TO THE TOP OF TOP LEFT LONG FILE.
13. DURING ADDRESS ONLY, PERSONAL AND FREIGHT ONLY SHALL CHANGE ONLY AFTER APPROVAL OF THE
COMMANDER/PERSONAL.

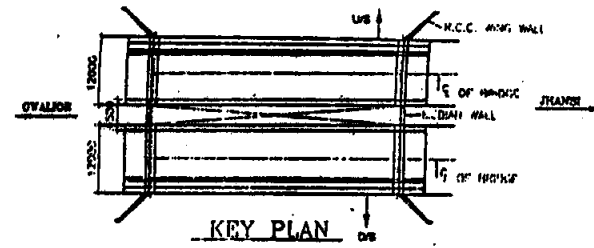
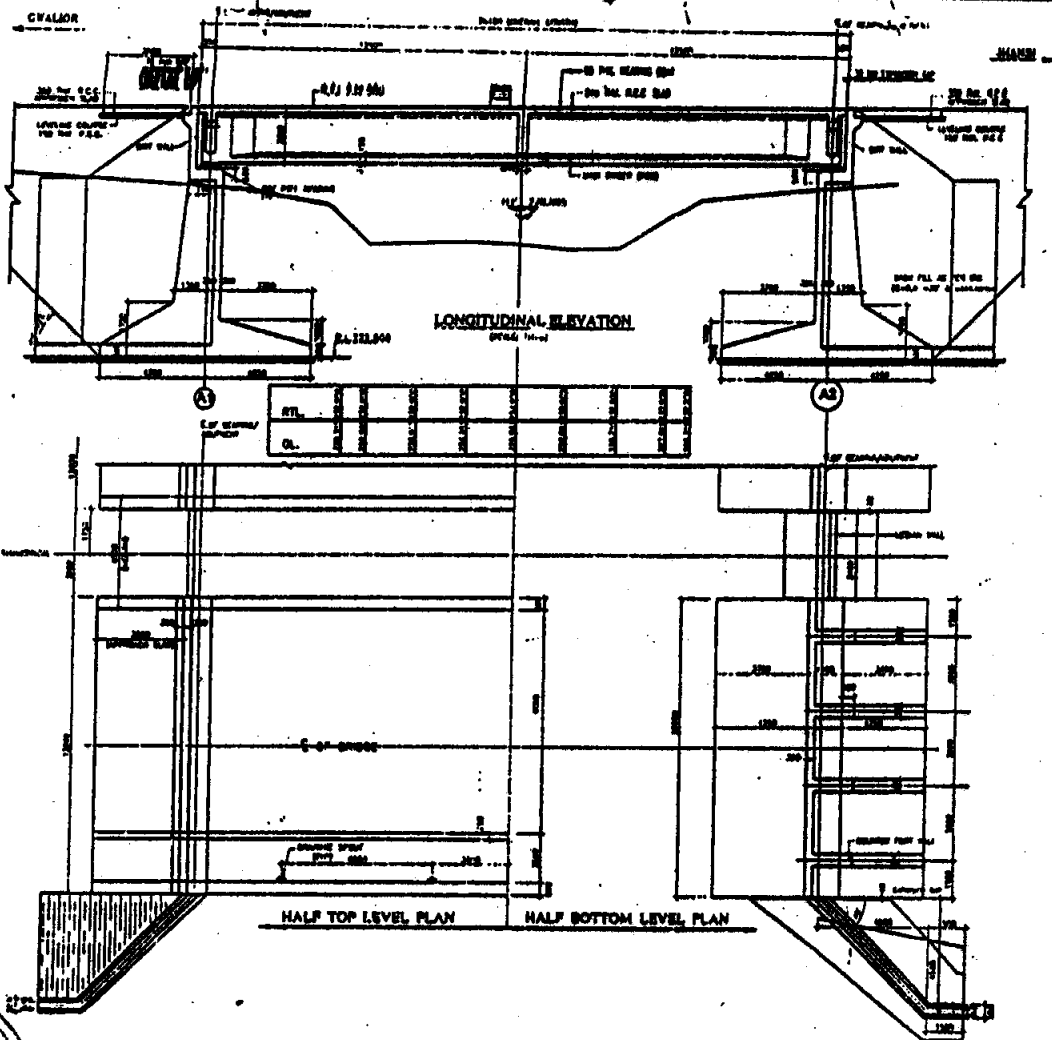


1. INDIAN VERTICAL LAND ON EACH PLOT = 200.
2. INDIAN HORIZONTAL LAND ON EACH PLOT = 200.

900184



		<p>N. T. S.</p>		<p>Fig. No. : 0-000</p>		<p>ENGINEERS & MANAGEMENT ASSOCIATES, INC.</p>	
<p>Engineers & Management Associates, Inc. 1000 North 10th Street, Suite 100 San Jose, California 95128</p>		<p>U.S. N. T. S.</p>		<p>U.S. N. T. S.</p>		<p>U.S. N. T. S.</p>	



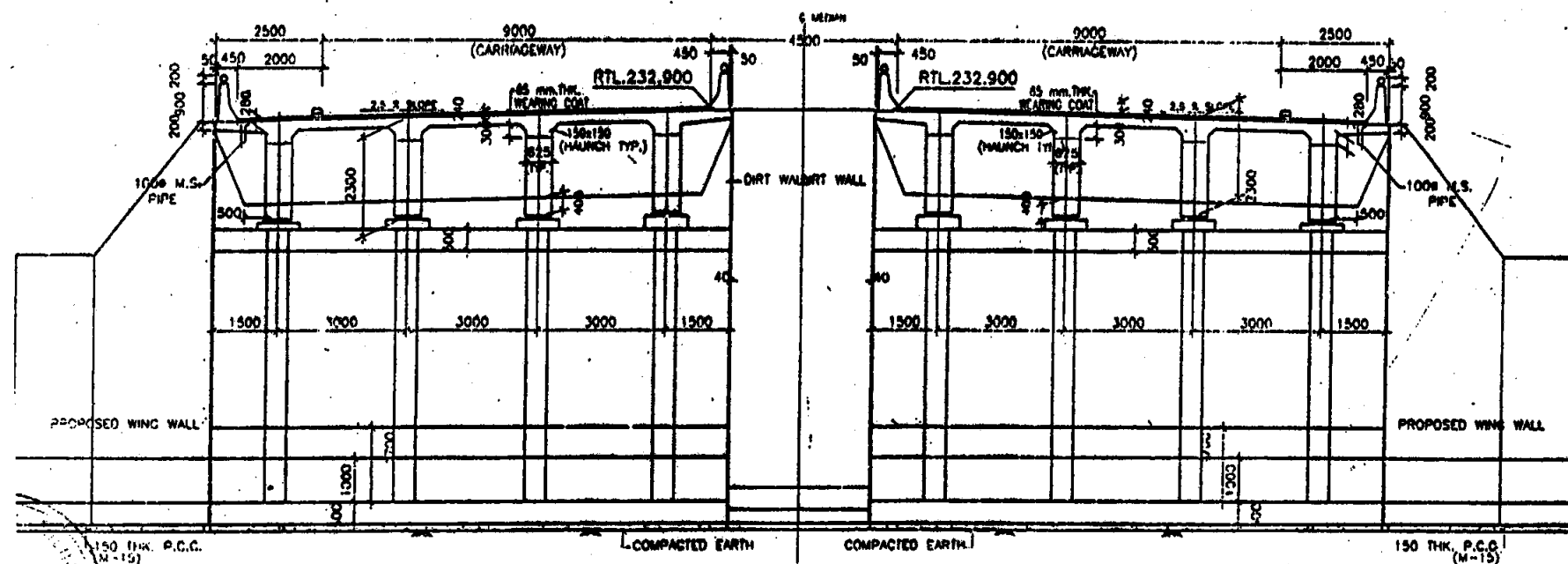
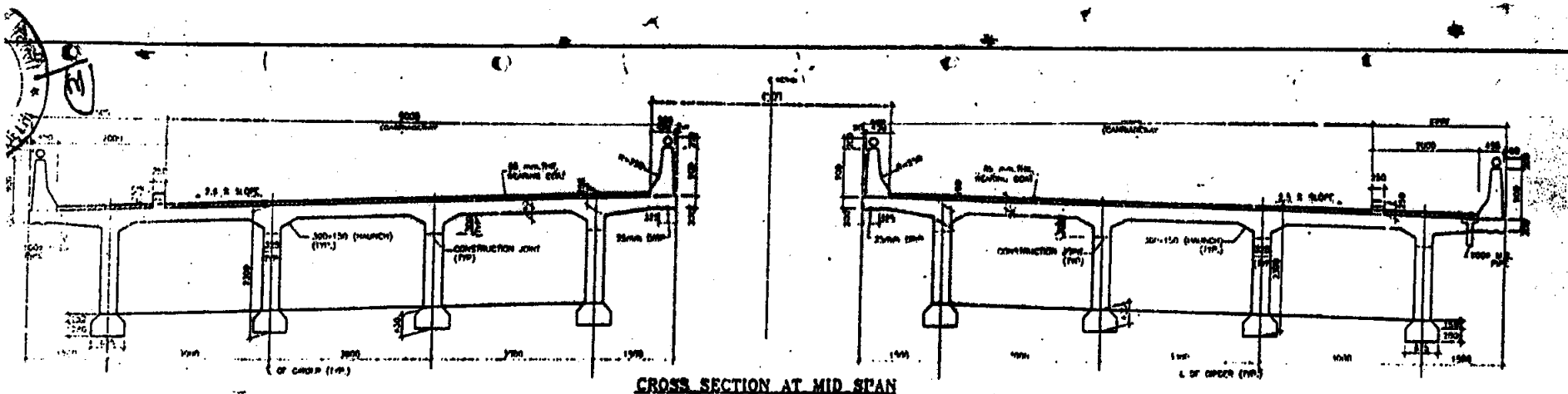
- NOTES**
1. FOR STRUCTURE SHALL BE: ONE NO. UNBENTED STEEL - 10000 PSI - 10000 PSI - 10000 PSI
 2. ALL DIMENSIONS ARE IN FEET & INCHES ARE IN METERS
 3. DO NOT SCALE, PLYWOOD SHOWN DIMENSIONS ONLY
 4. DIMENSIONS SHALL BE FOR STRUCTURE, NOT FOR FOUNDATION
 5. DIMENSIONS SHALL BE FOR STRUCTURE, NOT FOR FOUNDATION
 6. DIMENSIONS SHALL BE FOR STRUCTURE, NOT FOR FOUNDATION
 7. ALL LEVELS/DIMENSIONS ARE MEASURED AND NOT MEASURED FROM VARIOUS POINTS
 8. FOR PIER TOP LEVEL, MEASURE TO LEVEL AT PIER TOP LEVEL
 9. DIMENSIONS SHALL BE FOR STRUCTURE, NOT FOR FOUNDATION
 10. DIMENSIONS SHALL BE FOR STRUCTURE, NOT FOR FOUNDATION
 11. DIMENSIONS SHALL BE FOR STRUCTURE, NOT FOR FOUNDATION
 12. DIMENSIONS SHALL BE FOR STRUCTURE, NOT FOR FOUNDATION



000185



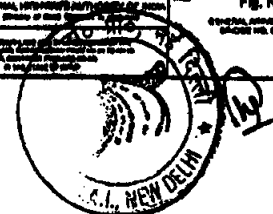
ENGINEER'S OFFICE Engineer's Office Department of the Army 10000 PSI - 10000 PSI - 10000 PSI		N. Y. S.	NATIONAL HIGHWAY AUTHORITY OF INDIA Division of Road Transport & Transport	Fig. No. : B-36A OFFICIAL APPROVED AND CERTIFIED BY DIVISION OF ROAD TRANSPORT & TRANSPORT	DATE: 10/10/1971 DESIGNED: [] CHECKED: [] APPROVED: []
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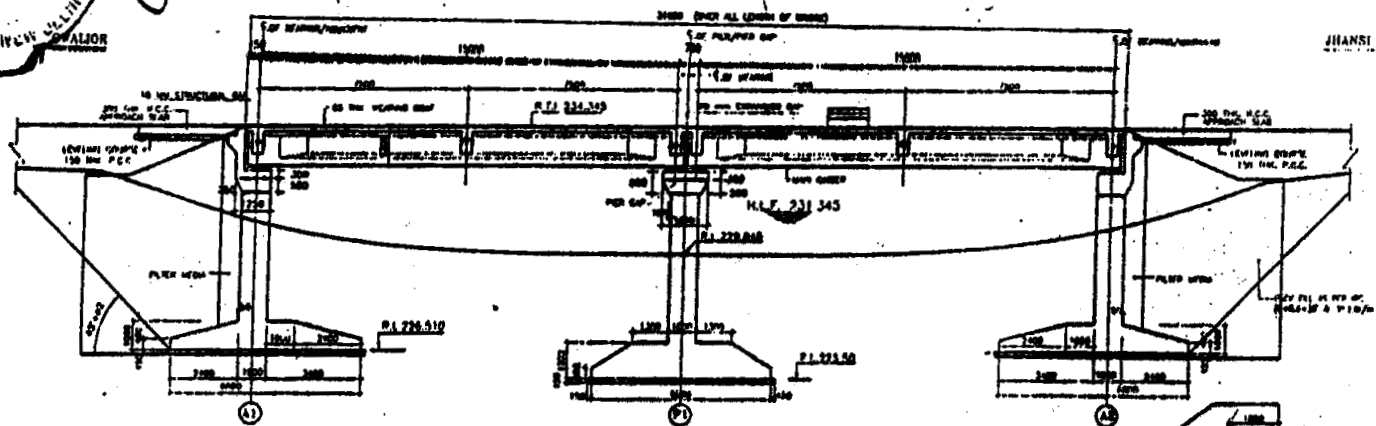


000186

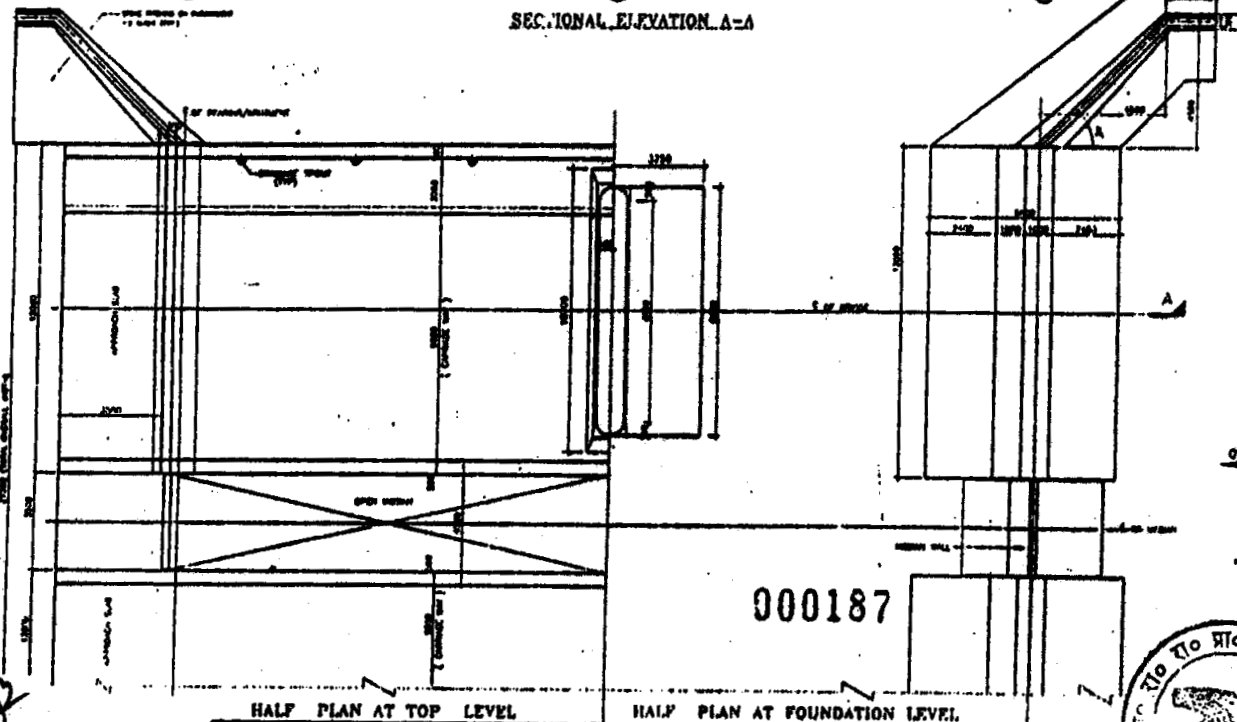
CROSS SECTION AT ABUTMENT SUPPORT

<p>Fig. No. : S-368</p> <p>Checked, approved, planning or design (with signature)</p> <p>DATE: _____</p> <p>DESIGNED: _____</p> <p>DRAWN: _____</p>	<p>Fig. No. : S-368</p> <p>Checked, approved, planning or design (with signature)</p> <p>DATE: _____</p> <p>DESIGNED: _____</p> <p>DRAWN: _____</p>
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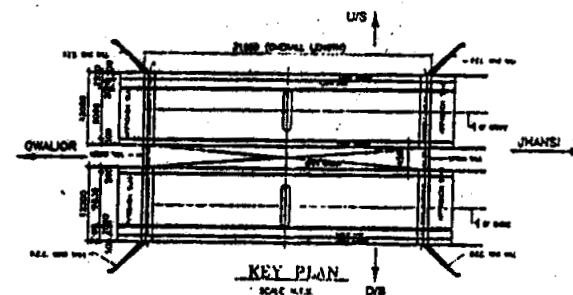
SECTIONAL ELEVATION A-A



HALF PLAN AT TOP LEVEL

HALF PLAN AT FOUNDATION LEVEL.

000187

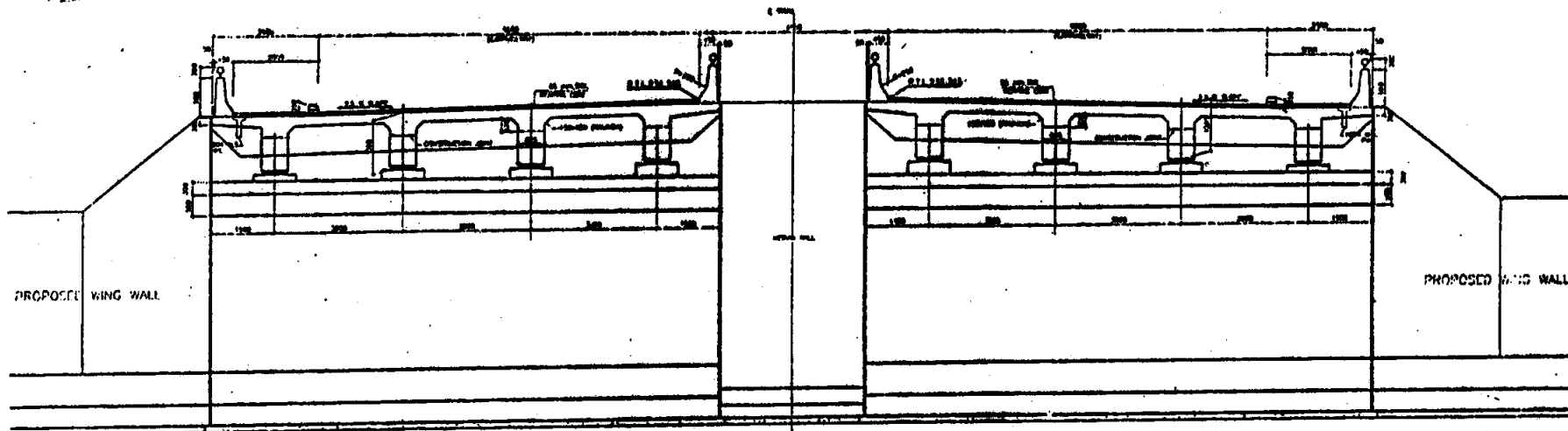


KEY PLAN

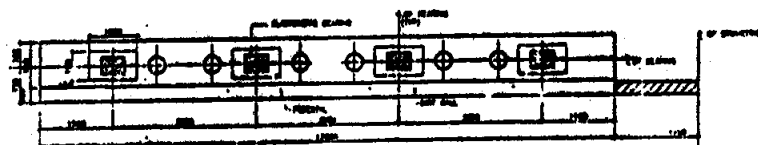
NOTES :-

- [illegible]

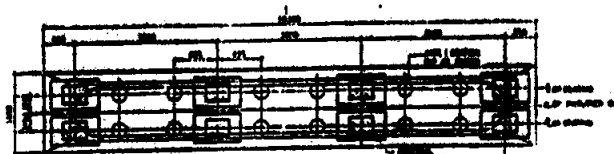
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CROSS SECTION AT ABUTMENT SUPPORT



TOP PLAN AT ABUTMENT CAP LEVEL



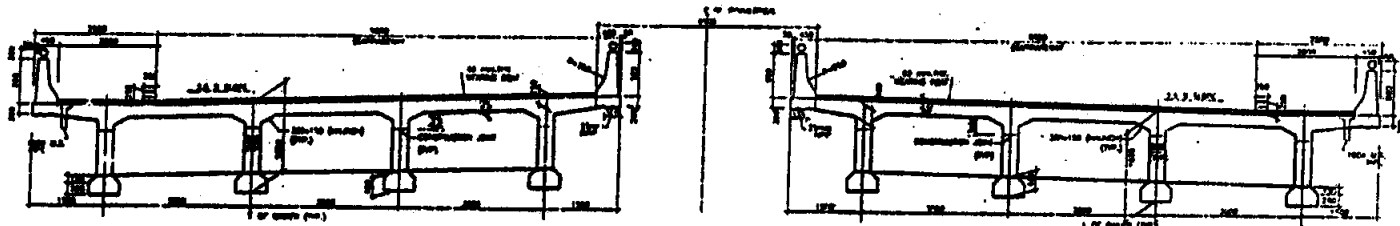
PLAN AT PIER CAP TOP

000188

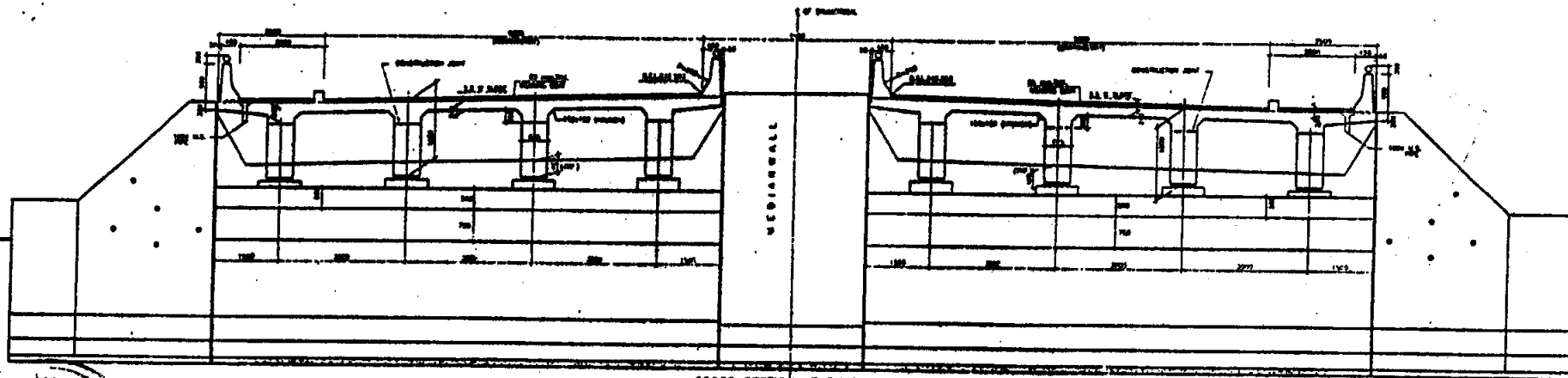


<p>DESIGNER ENR Engineer & Management Associates 1000 1st Ave. S.W. 4th Floor Atlanta, GA 30334</p>	<p>DATE R. T. S.</p>	<p>PROJECT NO. 1000 1st Ave. S.W. 4th Floor Atlanta, GA 30334</p>	<p>APPROVED NATIONAL AUTHORITY OF INDIA Ministry of Road Transport & Highways New Delhi</p>	<p>DESIGNED CHECKED APPROVED</p>	<p>SCALE AS SHOWN ON DRAWING</p>	<p>DATE 10/10/2010</p>
---	--------------------------	---	---	--	--------------------------------------	----------------------------

NAME ORIGINATOR EN Engineers & Management Associates 1000 West 10th St. Box 100 Tulsa, Oklahoma 74103		NAME M. T. S.	NAME- 	ADDRESS IN FULL STREET NO. STREET NAME 	CITY 	STATE 	NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY (U.S. DEPARTMENT OF COMMERCE) 1000 RESEARCH TRIANGLE PARK, N.C. 27709	DATE 	OFFICE OF THE SECRETARY NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY 1000 RESEARCH TRIANGLE PARK, N.C. 27709	NAME OF AGENCY OR ORGANIZATION NAME 	ADDRESS 	CITY 	STATE 	ZIP CODE
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SECTION AT MID. SPAN



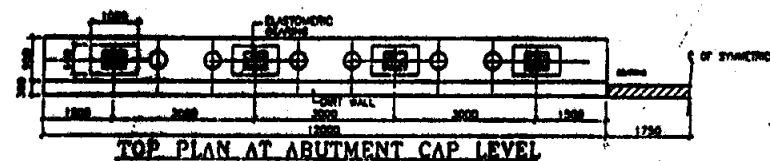
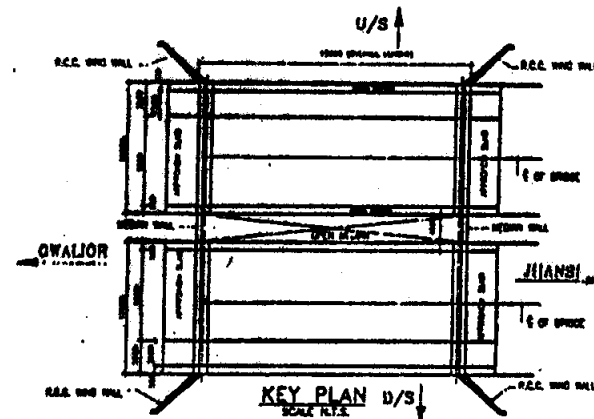
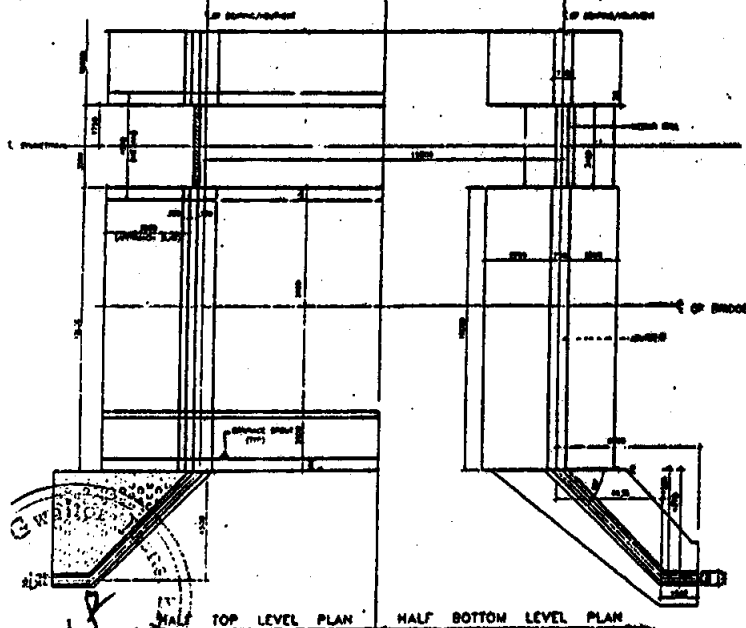
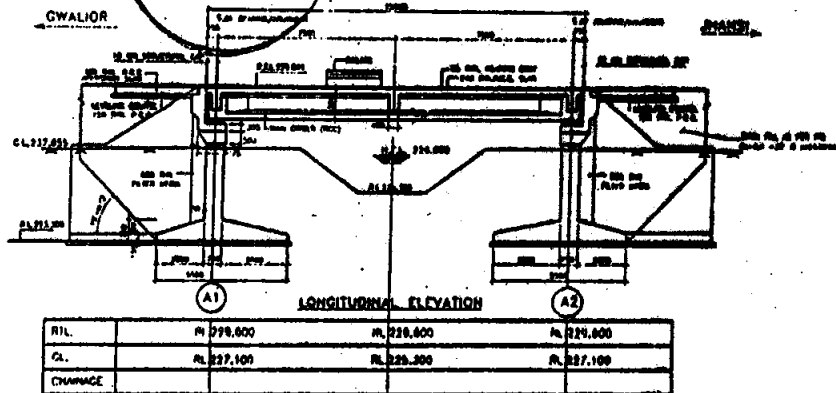
CROSS SECTION AT SUPPORT

000191



DESIGNER ENGINEER & ARCHITECT 1000 15th St. N.W. WASHINGTON, D.C.		CHECKED M. T. E.		APPROVED [Signature]		Fig. No. 1-B-36B GENERAL ARRANGEMENT DRAWING OF BRIDGE NO. 2-211 AT RAIL 10.100		DESIGNED CHECKED APPROVED	
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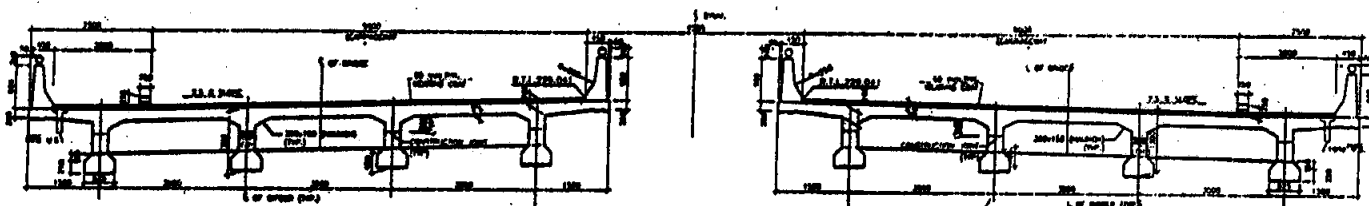
NOTES :-

1. FOR STRUCTURAL NOTES SEE THE RELEVANT DRAWING - BRIDGE (A) & (B)
2. ALL DIMENSIONS ARE IN METERS AND TO BE TAKEN AS SHOWN
3. DO NOT SCALE DIMENSIONS FROM DRAWING
4. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTER LINE OF THE BRIDGE
5. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTER LINE OF THE BRIDGE
6. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTER LINE OF THE BRIDGE
7. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTER LINE OF THE BRIDGE
8. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTER LINE OF THE BRIDGE
9. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTER LINE OF THE BRIDGE
10. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTER LINE OF THE BRIDGE
11. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTER LINE OF THE BRIDGE
12. ALL DIMENSIONS ARE TO BE TAKEN FROM THE CENTER LINE OF THE BRIDGE

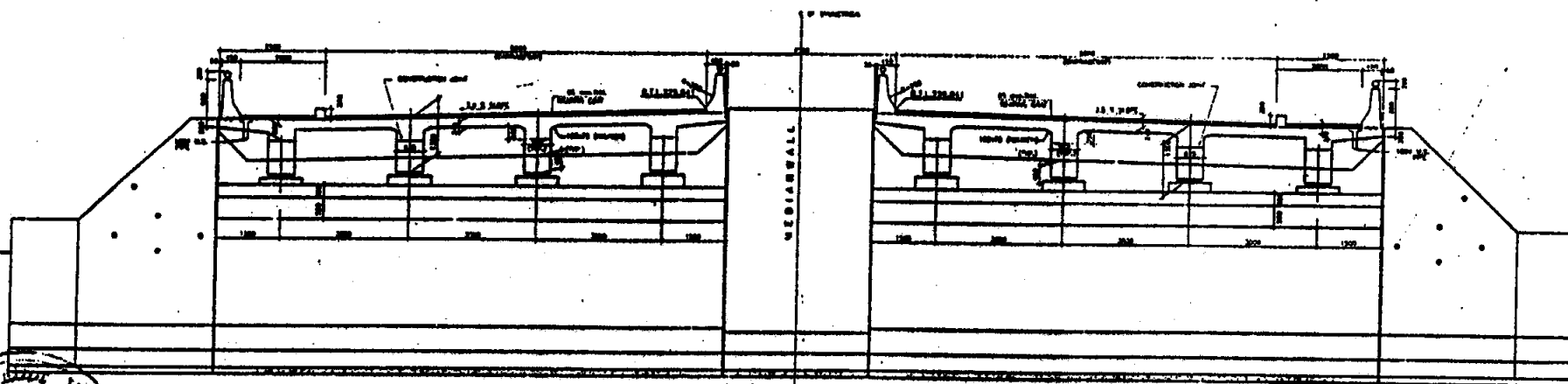
000192



<p>DESIGN OFFICE</p> <p>2A</p> <p>Engineers & Management Associates</p> <p>10/10, 1st Floor, 1st Ave, 1st Cross Road</p> <p>HYDRA, HYDRA & P.L.E.</p>	<p>DATE</p> <p>10.10.2010</p>	<p>PROJECT</p> <p>1000</p>	<p>SCALE</p> <p>1:100</p>	<p>NATIONAL HIGHWAY AUTHORITY OF INDIA</p> <p>Ministry of Road Transport & Highways</p> <p>100, Connaught Place, New Delhi - 110028</p>	<p>Fig. No. : 8-30A</p> <p>GENERAL AUTHORITY DRAWING OF</p> <p>BRIDGE NO. 8-30A (A) & (B)</p>	<p>DATE</p> <p>10.10.2010</p>	<p>SCALE</p> <p>1:100</p>	<p>PROJECT</p> <p>1000</p>
---	-------------------------------	----------------------------	---------------------------	---	---	-------------------------------	---------------------------	----------------------------

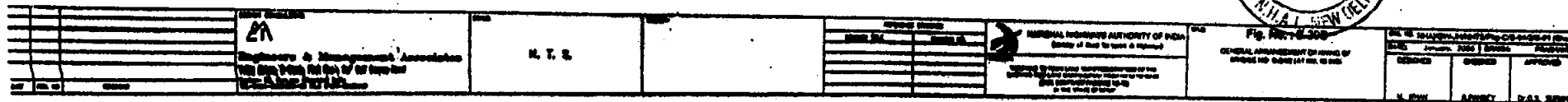


CROSS SECTION AT MID SPAN

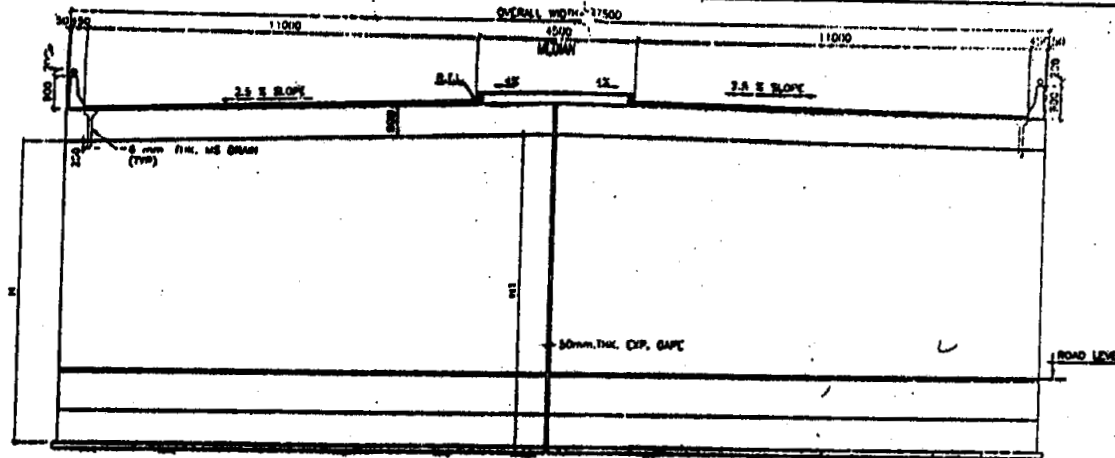


CROSS SECTION AT SUPPORT

900193



[illegible]



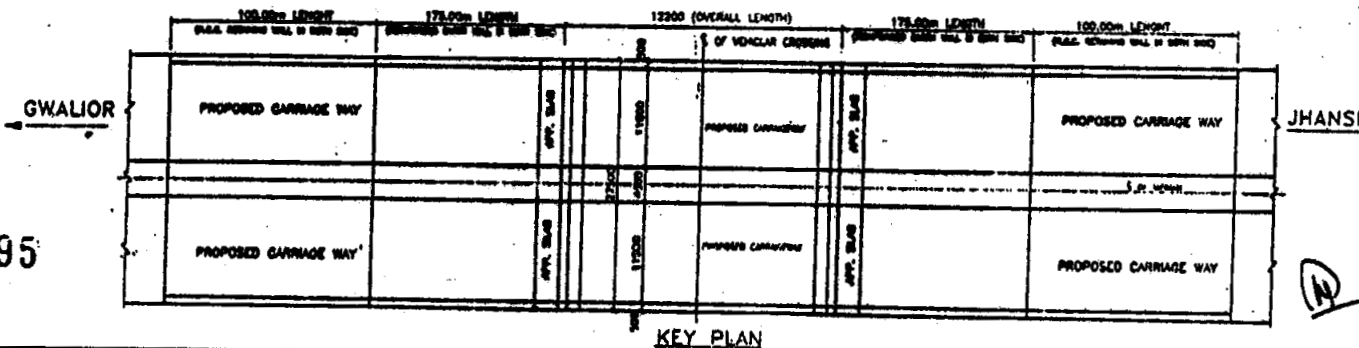
SECTION B-B

150 THK. P.C.C.
LEVELING COURSE (N-15)

NOTE :- THE GENERAL ARRANGEMENT DRAWING (SHEET 1 OF 2 & 2 OF 2)
IS APPLICABLE FOR THE BRIDGES SHOWN IN THIS TABLE.

SCHEDULE FOR GRADE SEPARATOR

S. NO.	CHAINAGE	STR. NO.	PROPOSED ROAD TOP LVL.	SERVICE ROAD TOP LVL.	N.G.L.	SPAN (L)	(H)	(H1)
1.	32.830	VC 33/1	239.250		237.981	10.500	7.050	7.750



KEY PLAN

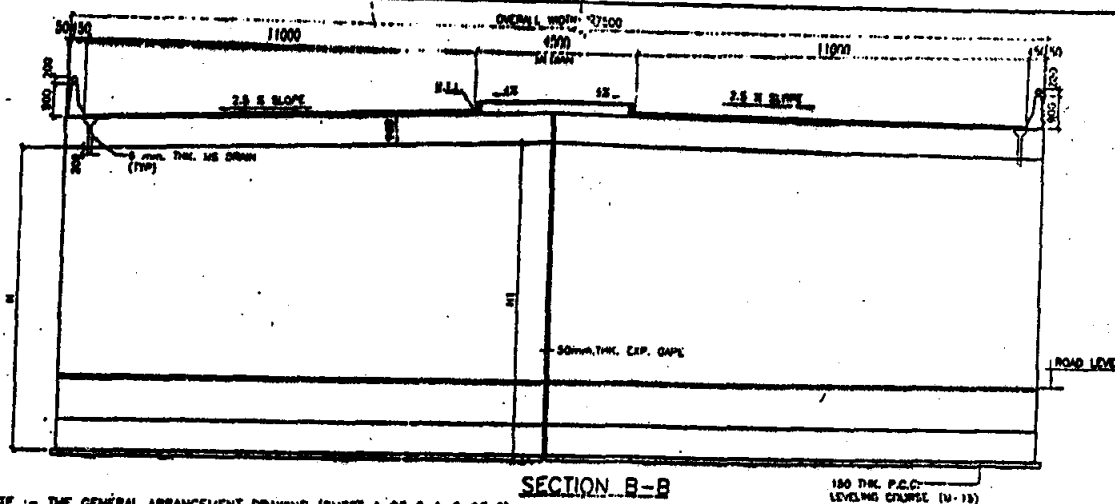


000195



<p>2A</p> <p>Engineers & Management Associates</p> <p>100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000</p>		<p>H. T. S.</p>		<p>Fig. No. : B-408</p> <p>GENERAL ARRANGEMENT DRAWING OF</p> <p>VEHICULAR CARRIAGE NO. VC-33/1 (BY N-15)</p>		<p>REVISION</p> <p>DATE</p> <p>BY</p> <p>CHKD</p> <p>APPROVED</p>	
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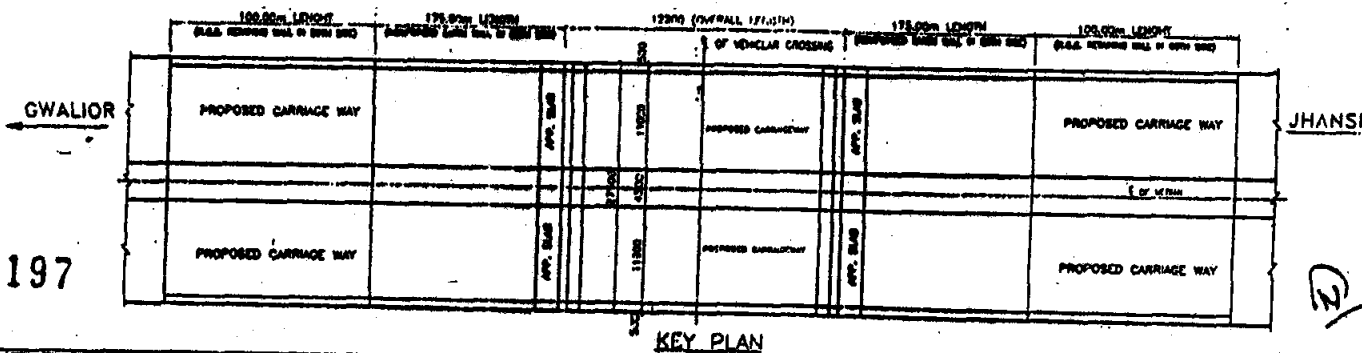
	NAME OF FIRM	ADDRESS	COUNTRY	DESIGN NO.	REVISION NO.	 NATIONAL HIGHWAY AUTHORITY OF INDIA (Ministry of Road Transport & Highways)	Fig. No. : B-41A GENERAL APPROVED DRAWING OF VEHICULAR CROSSING NO. V0071 (AT R/L 20.497)	DATE	BY	CHKD BY	APP'D BY
	Engineers & Management Associates P.O. Box 100, Gurgaon, Haryana, India Tel. 01262-222222	N.T.S.									



NOTE 1:- THE GENERAL ARRANGEMENT DRAWING (SHEET 1 OF 2 & 2 OF 2) IS APPLICABLE FOR THE BRIDGES SHOWN IN THIS TABLE.

SCHEDULE FOR GRADE SEPERATOR

S. NO.	CHAINAGE	STR. NO.	PROPOSED ROAD TOP LVL.	SERVICE ROAD TOP LVL.	N.G.L.	SPAN (L)	(H)	(H1)
1.	38.425	VC 39/1	230.585		222.495	10500	7050	7350



000197



N. T. S.

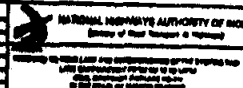
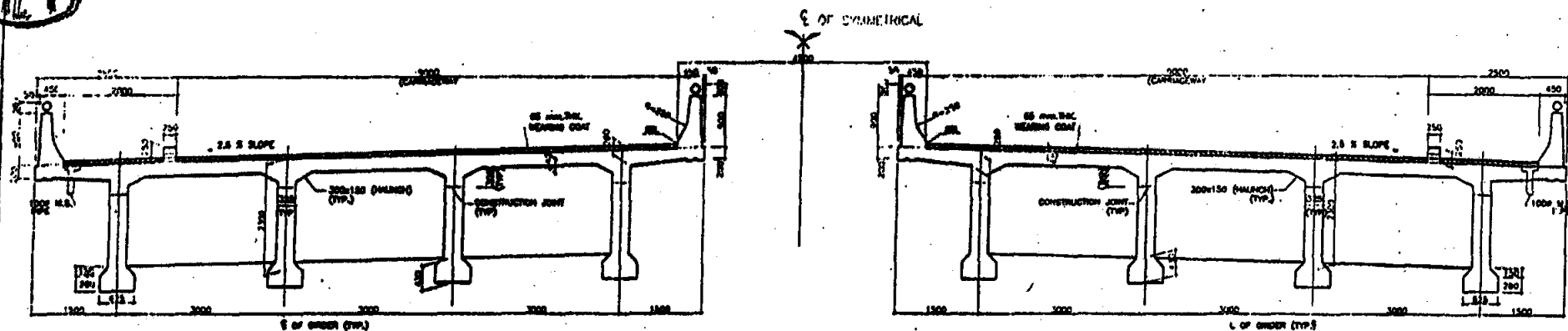
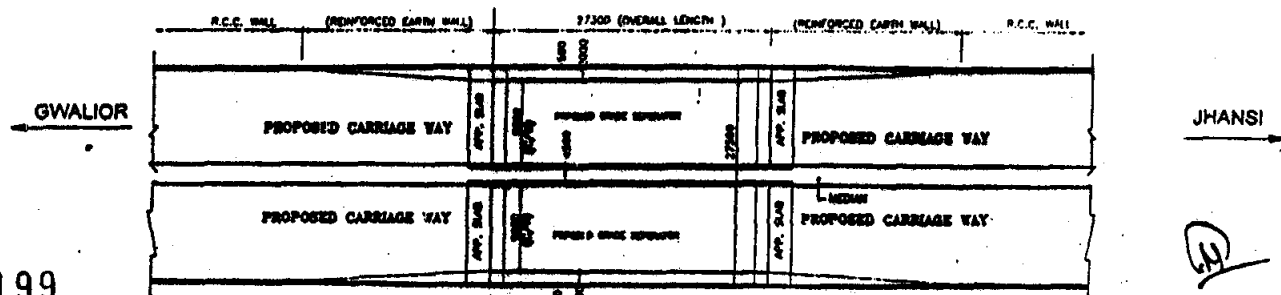
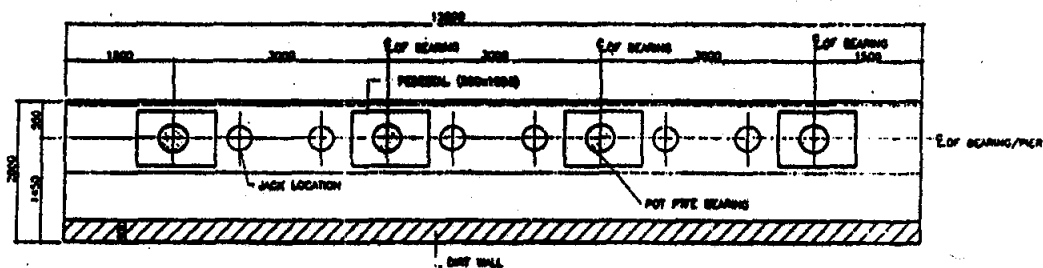


Fig. No.: B-41B
GENERAL ARRANGEMENT DRAWING OF
VEHICULAR CROSSING NO. VC39/1 (AT KM. 38.425)

DESIGNED	CHECKED	APPROVED
N. T. S.	N. T. S.	N. T. S.



CROSS SECTION AT MID SPAN

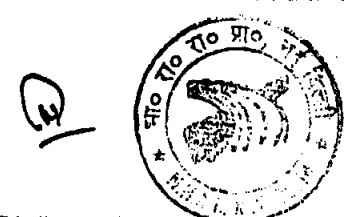


KEY PLAN



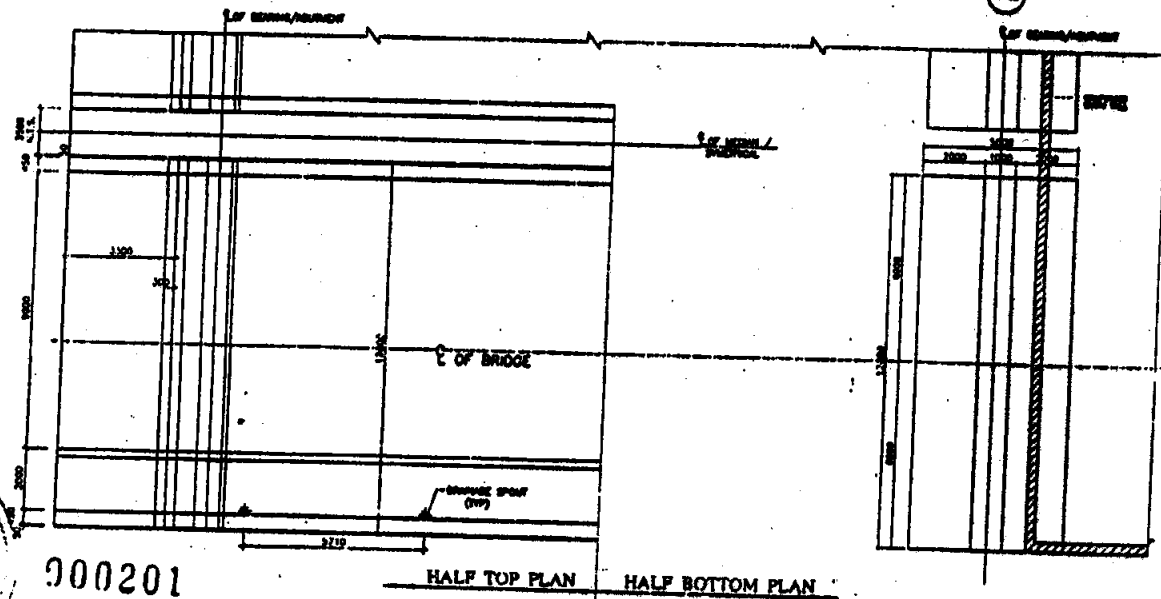
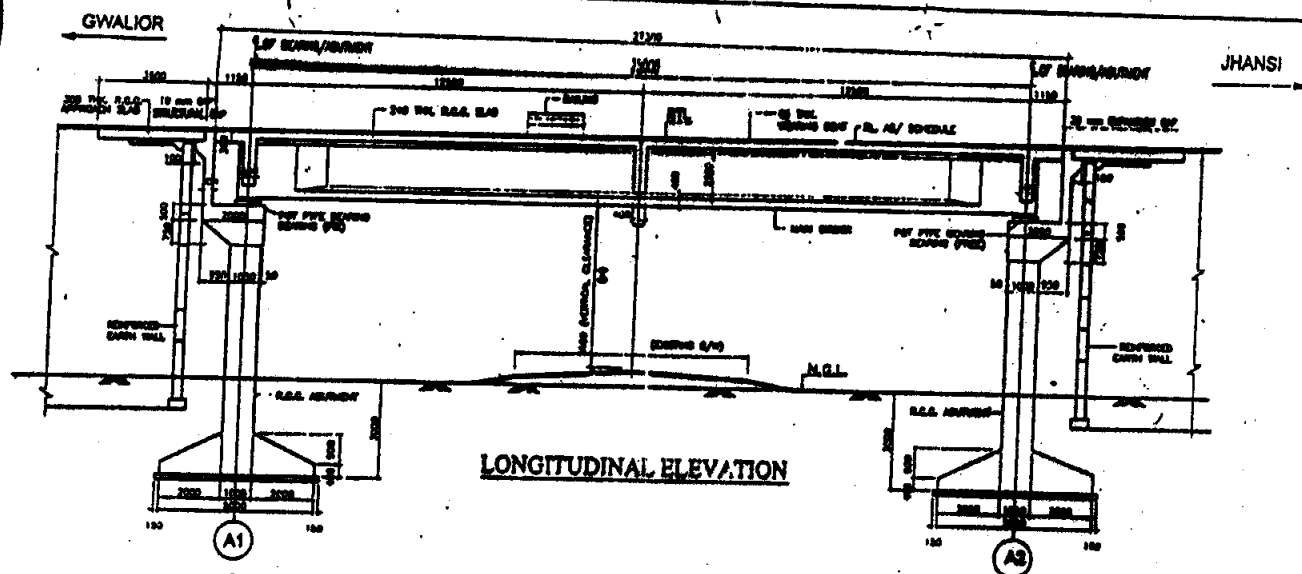
000199

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8

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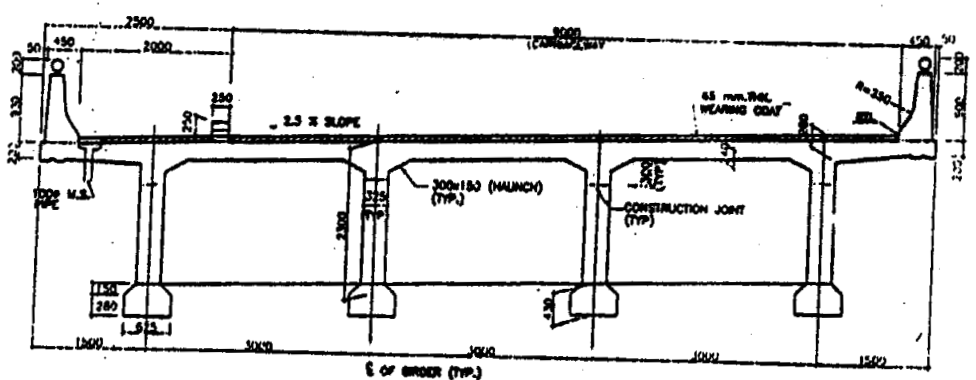


SCHEDULE FOR GRADE SEPERATOR AT GIVEN CHAINAGES, AS BELOW

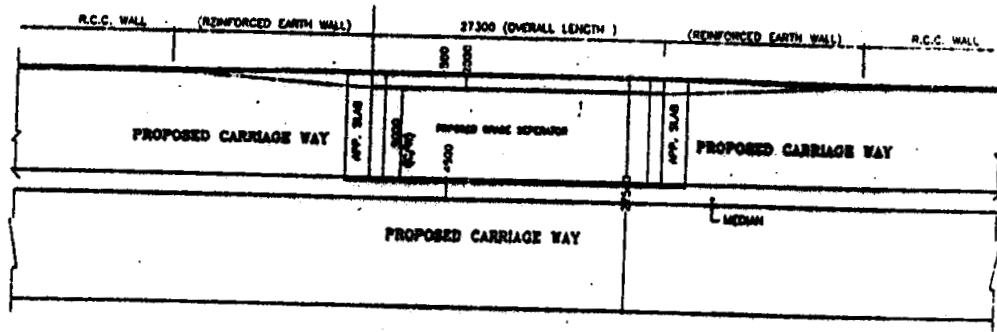
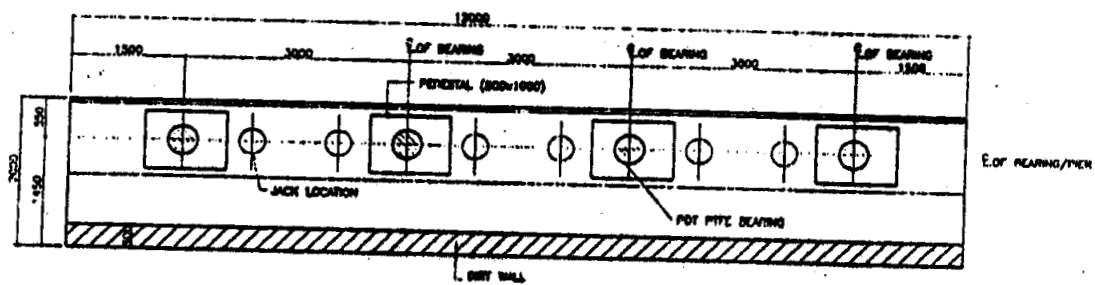
S.NO.	LOCATION (Sta.)	PROPOSED SKE. NO.	TYPE OF SEPERATOR	SPAN (M)	(1)	(2)	R.A.L.	PROPOSED SKE.
1.	07.443	02 46/1	SULTANPUR	30000	30000	311.000	002.917	100.917



000201 HALF TOP PLAN HALF BOTTOM PLAN		ENGINEER'S SIGNATURE M. T. S.		NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport & Highways)		Fig. No.: B-43A GENERAL ARRANGEMENT DRAWING OF GRADE SEPERATOR NO. 00001 (AT STA. 07.443)		NO. OF SHEETS: 01/01 DATE: 00/00/00 SCALE: 1:1000	
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CROSS SECTION AT MID SPAN



KEY PLAN

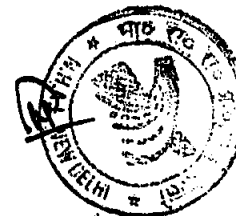
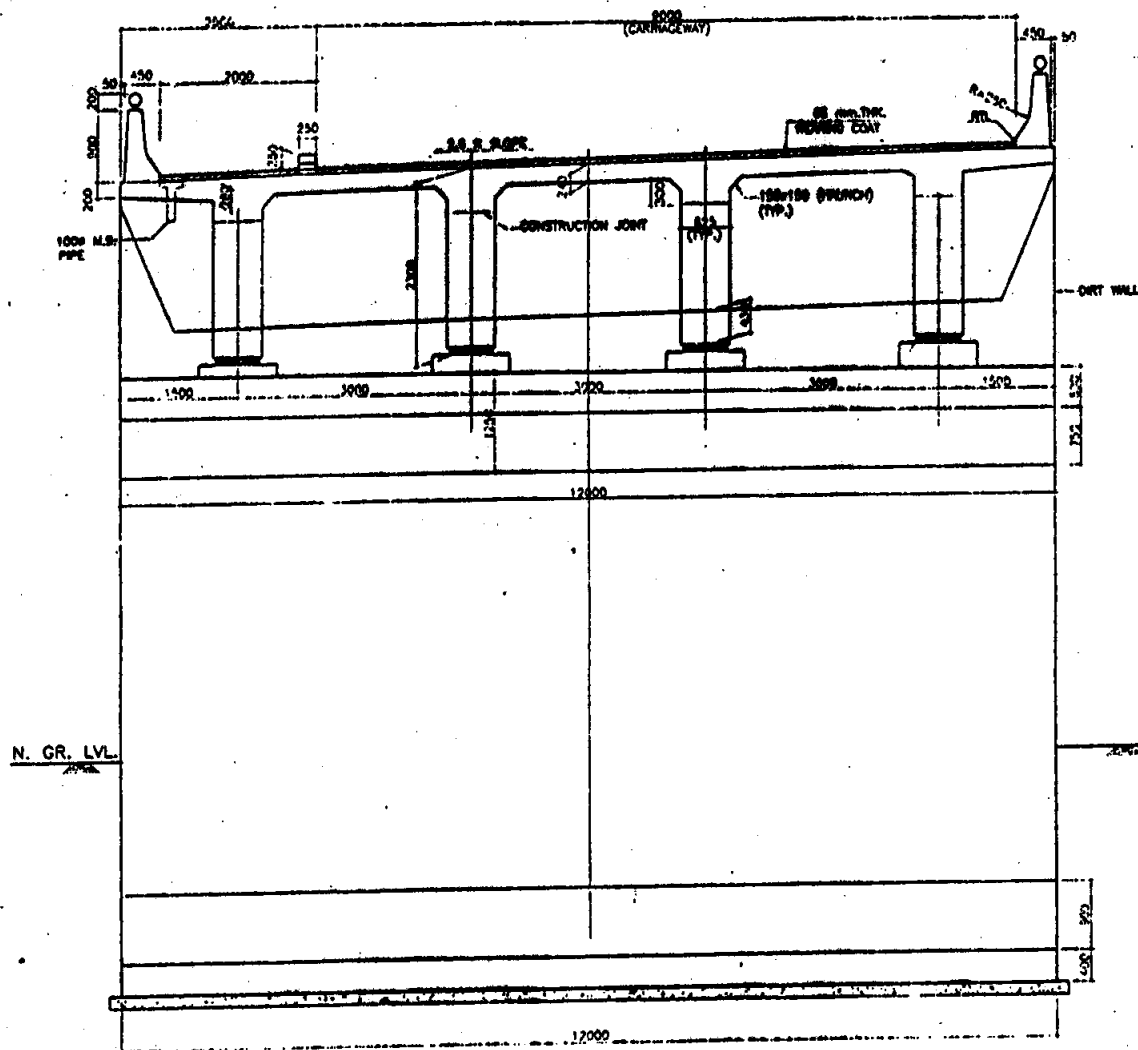


GWALIOR

JHANSI



DESIGNER M. T. S.		CHECKED M. T. S.		APPROVED M. T. S.		Fig. No. : S-448		GENERAL ARRANGEMENT DRAWING OF GRADE SEPARATOR NO. GS-101 (AT KM. 34.44)		REVISIONS	
M. T. S.		M. T. S.		M. T. S.		M. T. S.		M. T. S.		M. T. S.	



CROSS SECTION AT ABUTMENT SUPPORT

1. NAME OF THE ASSOCIATION Engineers & Management Association 2000 15th Avenue, Suite 100, San Francisco, CA 94114 Tel: (415) 774-1111		2. ADDRESS N. Y. C.	3. CITY N. Y. C.	4. STATE N. Y.	5. ZIP 10011	6. DATE OF ESTABLISHMENT 1960	7. DATE OF LAST MEETING 1980	8. DATE OF NEXT MEETING 1981	9. DATE OF PREVIOUS MEETING 1980	10. DATE OF PREVIOUS MEETING 1980	11. DATE OF PREVIOUS MEETING 1980	12. DATE OF PREVIOUS MEETING 1980
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Gwalior

JHANSI

NOTES :-

1. FOR STRUCTURAL NOTES REF. DMS. NO. 104/1971/1/ CIVILIAN - JHANSI / 104-01
2. ALL DIMENSIONS ARE IN MM. & LEVELS ARE IN METERS.
3. DO NOT SCALE. FOLLOW WRITTEN DIMENSIONS ONLY.
4. BRIDGE LOCATION IS CHANGING AT CORING LINE OF BRIDGE.
5. ALL LEVELS/DIMENSIONS ARE TENTATIVE AND MAY UNDERGO SOME MODIFICATION DURING CONSTRUCTION OF BRIDGE.
6. FOR ROAD TOP LEVEL, REFER TO LEVEL AT PIER MIDDLE EDGE.
7. ABUTMENT CAP TOP LEVEL MAY BE VARYING MINORLY TO SUIT BEARINGS/PEDISTAL HEIGHT SUBJECT TO THE APPROVAL OF ENGINEER IN CHARGE.
8. CONC. GRADE SHALL BE 10% FOR SUPERSTRUCTURE, 10% FOR ABUTMENT FOUNDATION, 10% FOR APPROACH SLAB & 10% FOR PEDISTAL.
9. MINIMUM CLEAR COVER TO ANY REINFORCEMENT BAR SHALL BE 40 mm EXCEPT FOR FOUNDATION WHERE THE MINIMUM CLEAR COVER SHALL BE 75 mm.
10. STRIP SEAL TYPE EXPANSION JOINTS OF PROVEN QUALITY SHALL BE PROVIDED IN TEARS OF MODIFIED BITUMEN SPACED FOR EXPANSION JOINTS ISSUED VIDE "NORTH" CIRCULAR NO. 10/10-14054/1/10-14054 DATED 30-11-2000 & 23-01-2001.
11. CROSS SLOPE OF 2.5% SHALL BE PROVIDED BY RAMPING PEDISTALS.
12. POT PIPE BEARINGS TO BE PROVIDED TO BE DESIGNED AS PER RULES PART II-2002.

LONGITUDINAL ELEVATION

SCHEDULE FOR GRADE SEPARATOR AT GIVEN CHAINAGES, AS BELOW

S.NO.	LOCATION (Km.)	PROPOSED SILE NO.	NAME OF SUPPLIER	SPAC (M)	(M)	REL.	R.S.L.	FOUNDED S/L.
1.	64.100	OR 10/1	CHANDLER TRIPLE	10000	10000	114.000	100.000	100.000

000207

HALF TOP PLAN

HALF BOTTOM PLAN

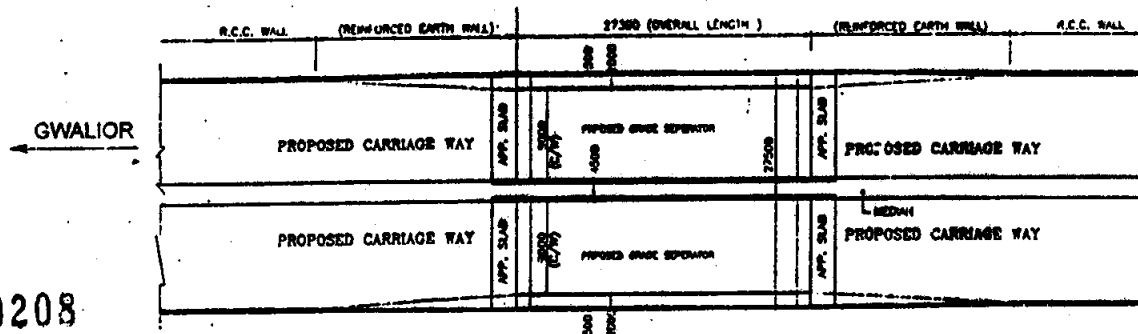
Engineers & Management Associates
N.T.S.

MATERIAL INSPECTION AUTHORITY OF INDIA
Survey of Road Transport & Highway

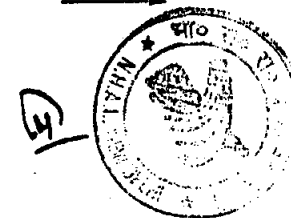
Fig. No. : B-45A

GENERAL ARRANGEMENT DRAWING OF
GRADE SEPARATOR FOR 100 FT X 100 FT

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

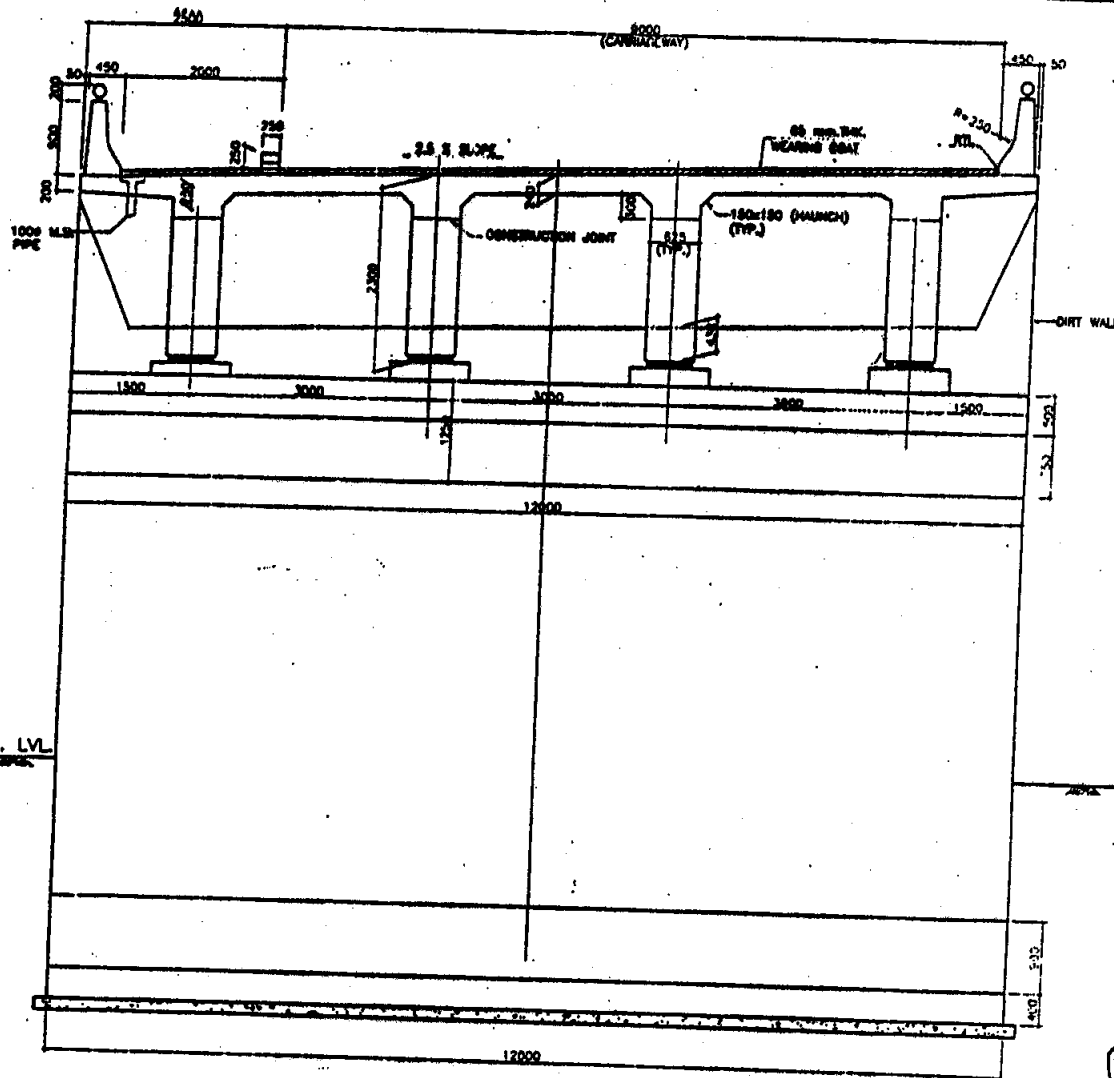


JHANSI



000208

1. REPORTING ENTITY a. NAME b. ADDRESS c. CITY d. STATE e. ZIP f. TELEPHONE g. FAX h. EMAIL i. WEBSITE j. INDUSTRY k. TYPE OF BUSINESS l. DATE OF INCORPORATION m. DATE OF FILING n. DATE OF REVIEW o. DATE OF EXPIRATION p. DATE OF CANCELLATION q. DATE OF REINSTATEMENT r. DATE OF RE-EVALUATION s. DATE OF RE-APPROVAL t. DATE OF RE-EXAMINATION u. DATE OF RE-INSPECTION v. DATE OF RE-AUDIT w. DATE OF RE-ASSESSMENT x. DATE OF RE-EVALUATION y. DATE OF RE-APPROVAL z. DATE OF RE-EXAMINATION aa. DATE OF RE-INSPECTION ab. DATE OF RE-AUDIT ac. DATE OF RE-ASSESSMENT ad. DATE OF RE-EVALUATION ae. DATE OF RE-APPROVAL af. DATE OF RE-EXAMINATION ag. DATE OF RE-INSPECTION ah. DATE OF RE-AUDIT ai. DATE OF RE-ASSESSMENT aj. DATE OF RE-EVALUATION ak. DATE OF RE-APPROVAL al. DATE OF RE-EXAMINATION am. DATE OF RE-INSPECTION an. DATE OF RE-AUDIT ao. DATE OF RE-ASSESSMENT ap. DATE OF RE-EVALUATION aq. DATE OF RE-APPROVAL ar. DATE OF RE-EXAMINATION as. DATE OF RE-INSPECTION at. DATE OF RE-AUDIT au. DATE OF RE-ASSESSMENT av. DATE OF RE-EVALUATION aw. DATE OF RE-APPROVAL ax. DATE OF RE-EXAMINATION ay. DATE OF RE-INSPECTION az. DATE OF RE-AUDIT ba. DATE OF RE-ASSESSMENT bb. DATE OF RE-EVALUATION bc. DATE OF RE-APPROVAL bd. DATE OF RE-EXAMINATION be. DATE OF RE-INSPECTION bf. DATE OF RE-AUDIT bg. DATE OF RE-ASSESSMENT bh. DATE OF RE-EVALUATION bi. DATE OF RE-APPROVAL bj. DATE OF RE-EXAMINATION bk. DATE OF RE-INSPECTION bl. DATE OF RE-AUDIT bm. DATE OF RE-ASSESSMENT bn. DATE OF RE-EVALUATION bo. DATE OF RE-APPROVAL bp. DATE OF RE-EXAMINATION bq. DATE OF RE-INSPECTION br. DATE OF RE-AUDIT bs. DATE OF RE-ASSESSMENT bt. DATE OF RE-EVALUATION bu. DATE OF RE-APPROVAL bv. DATE OF RE-EXAMINATION bw. DATE OF RE-INSPECTION bx. DATE OF RE-AUDIT by. DATE OF RE-ASSESSMENT bz. DATE OF RE-EVALUATION ca. DATE OF RE-APPROVAL cb. DATE OF RE-EXAMINATION cc. DATE OF RE-INSPECTION cd. DATE OF RE-AUDIT ce. DATE OF RE-ASSESSMENT cf. DATE OF RE-EVALUATION cg. DATE OF RE-APPROVAL ch. 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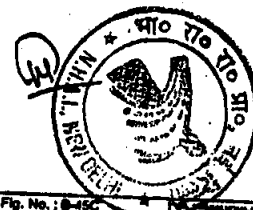
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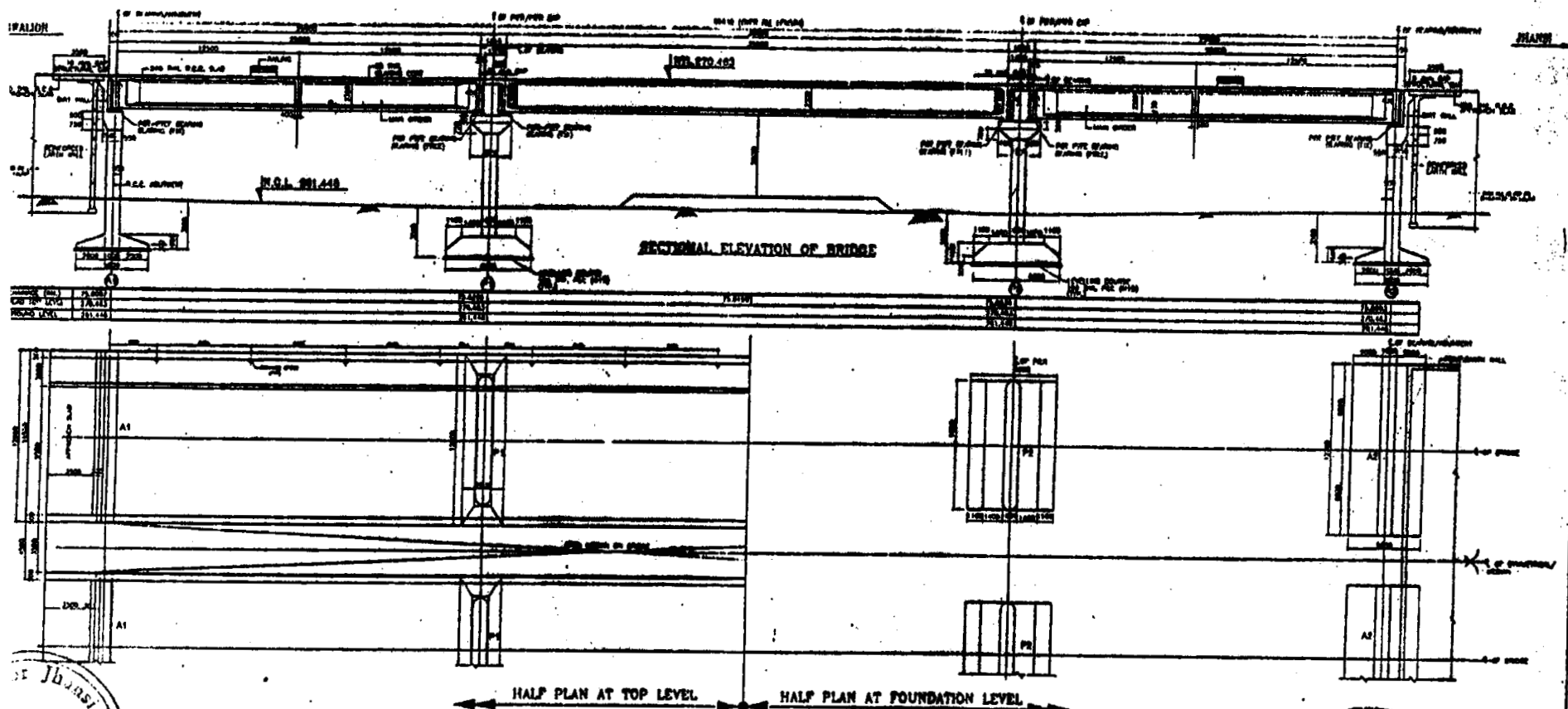


000209

CROSS SECTION AT ABUTMENT SUPPORT

DRAWN BY EA Engineers & Management Associates 10/10, 1st Floor, 1st Stage, 1st Cross Road 1st Cross Road, 1st Stage, 1st Cross Road		CHECKED BY N. T. S.		APPROVED BY Fig. No. : 8-45C INTERNAL APPROVED BY CHIEF ENGINEER (S&D)	
DATE 10/10/10		SCALE 1:100		PROJECT 10/10/10	





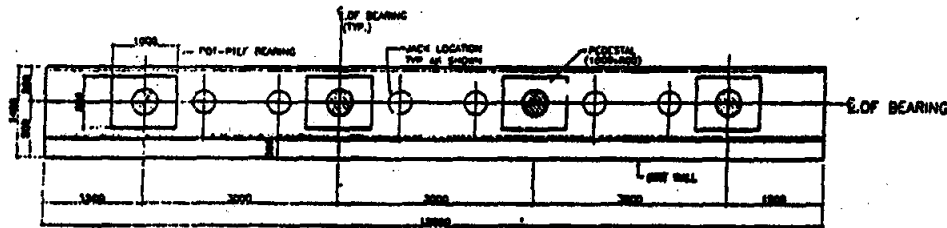
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- THE CONSTRUCTION SECTOR FOR PEOPLE
1. CONSTRUCT A NEW 2 LANE STREET
 2. IMPROVE THE EXISTING STREET
 3. CONSTRUCT A NEW 2 LANE STREET

900210

FORM 100-100 (Rev. 1-60) 2A Engineers & Management Association 1000 North 10th Street, Suite 100 St. Paul, Minnesota 55102	U. S. S.	U. S. S.	U. S. S.	NATIONAL ASSOCIATION OF ENGINEERS (Part of the National Association of Engineers) 1000 North 10th Street, Suite 100 St. Paul, Minnesota 55102	Fig. No. 1-B-45A NATIONAL ASSOCIATION OF ENGINEERS (Part of the National Association of Engineers)	NATIONAL ASSOCIATION OF ENGINEERS (Part of the National Association of Engineers)
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Plan view of the proposed carriage way showing the layout of the road, including the proposed carriage way, existing carriage way, and the proposed median wall. The plan view shows the road layout with dimensions and labels. The road is 11.50m wide. The proposed carriage way is 7.50m wide. The existing carriage way is 3.00m wide. The proposed median wall is 1.00m wide. The road is labeled 'PROPOSED CARRIAGE WAY' and 'EXISTING CARRIAGE WAY'. The road is also labeled 'Gwalior' and 'Jhansi'.

1. FOR STRUCTURAL NOTES REF. DRG NO. WMM/AHTS/ CHALDER - JHARKH / GEN-08
2. ALL DIMENSIONS ARE IN MM. & LEVELS ARE IN METERS.
3. DO NOT SCALE. FOLLOW WRITTEN DIMENSIONS ONLY.
4. CONCRETE GRADE SHALL BE M20 FOR FOUNDATION, M35 FOR PERMANENT
M30 FOR APPROACH SLAB & M30 FOR DECKSLAB.
5. WEARING COURSE COVER TO ANY REINFORCEMENT BAR SHALL BE 40 mm EXCEPT FOR FOUNDATION
WHERE THE WEARING COURSE COVER SHALL BE 75 mm.
6. BGC AT FOUNDING LEVEL IS 241/m
7. BRIDGE LOCATION IS CHANGHAI AT CENTRE LINE OF BRIDGE.
8. ALL LEVELS/DIMENSIONS ARE TENTATIVE AND MAY VARY DUE TO SOME WHICH CHANGE
DURING PROVISION, IF REQUIRED.
9. FIRM ROAD SURF LEVEL BEFORE TO LEVEL AT POWER MECHANICAL EDGE.
10. APPROXIMATE GAP TOP LEVEL MAY BE VARIED MAXIMUMLY TO SUIT SCRAMBLES/POLESTAN
WITHOUT REFERENCE TO THE APPROVAL OF ENGINEER IN CHARGE.
11. SINGLE STRIP REAL TYPE EXPANSION JOINT SHALL BE PROVIDED AS PER
DESIGNED COMPANY SPECIFICATION FOR EXPANSION JOINTS SUBJECT TO "MOORTH" CIRCULAR NO.
BRIDGE DIVISION/PW-DIV-JOINT 2001-2002 & DD-M-2001.
12. GRADE ABOVE OF 2.5 m SHALL BE PROVIDED BY PAVING FOOTPATHS.
13. WEARING CURB SHALL BE CONCRETE.
14. RETAINING EARTH WALL SHALL BE PROVIDED IN APPROPRIATE.

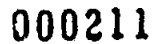


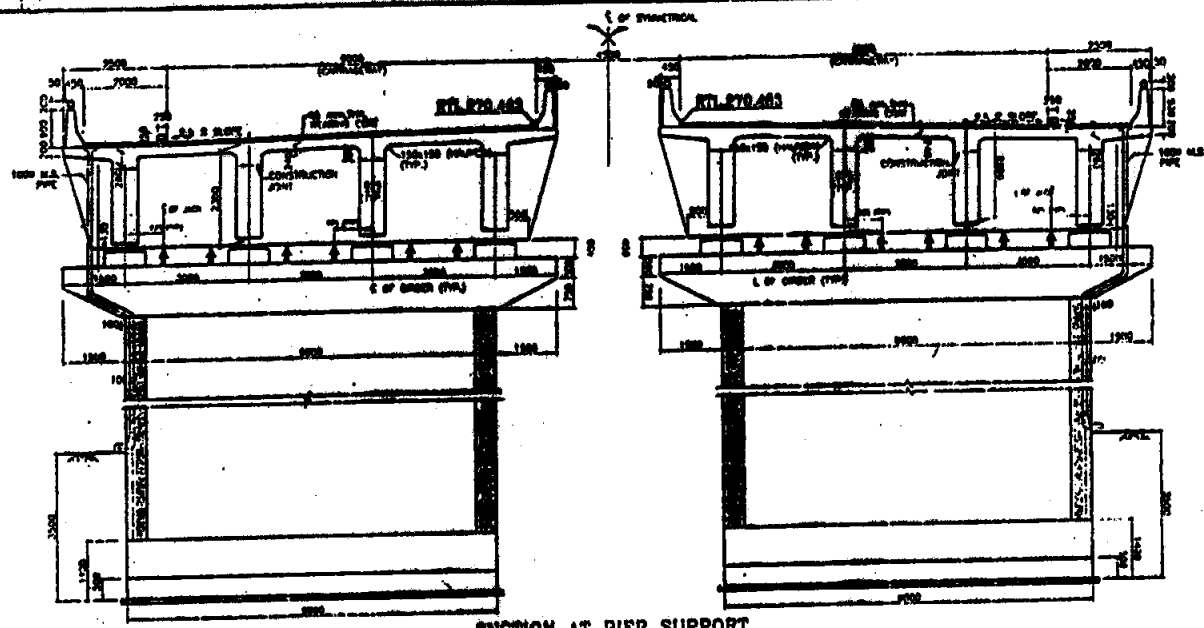
Fig. No. : E-458

ORIGINAL SUBMITTED BY: [REDACTED]

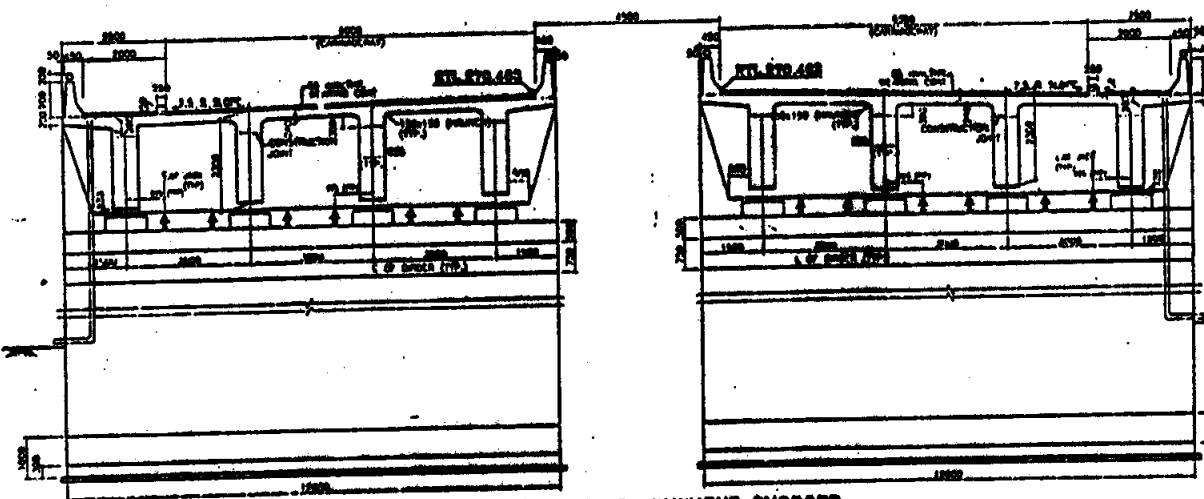
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DATE:	January, 2024	USPS:	PAID
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SECTION AT PIER SUPPORT
(AT 28.00M SPAN)

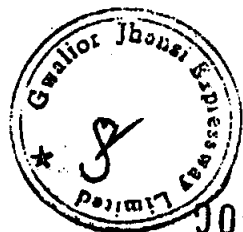
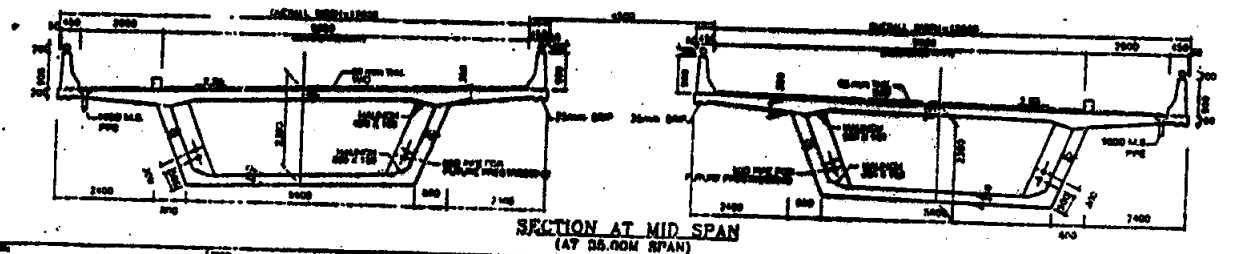
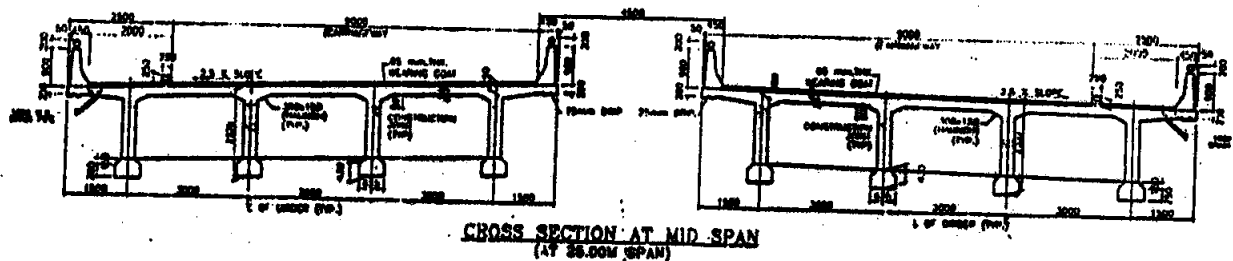
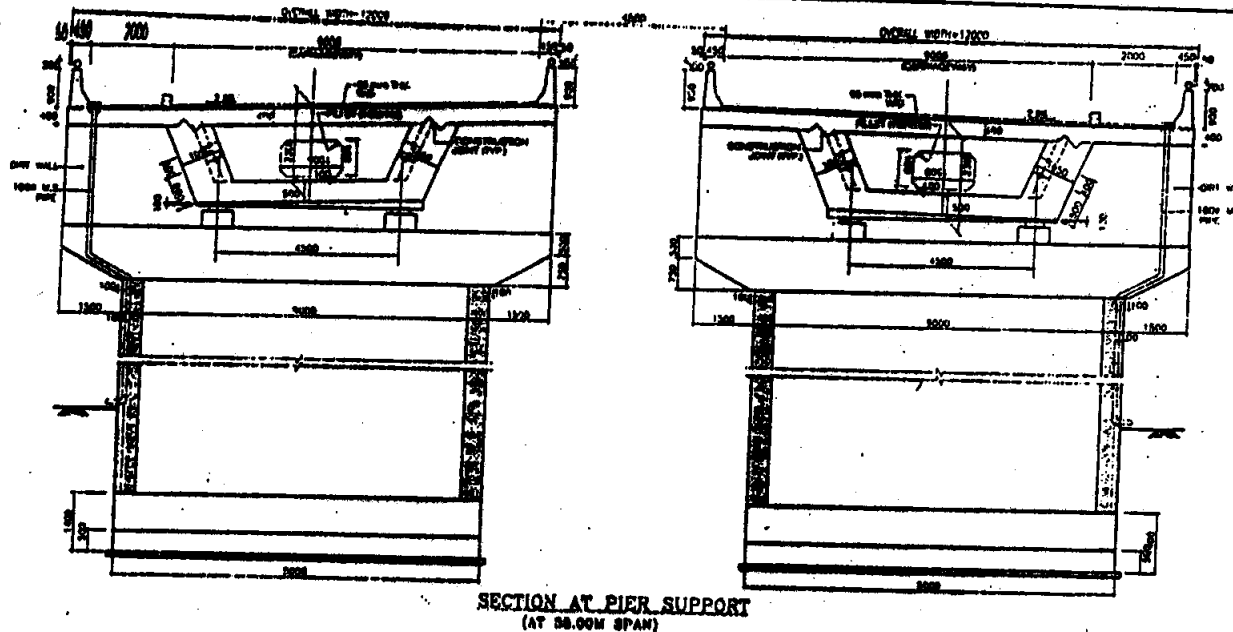
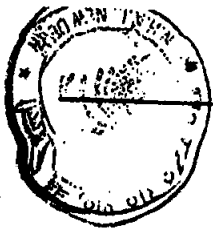


CROSS SECTION AT ABUTMENT SUPPORT

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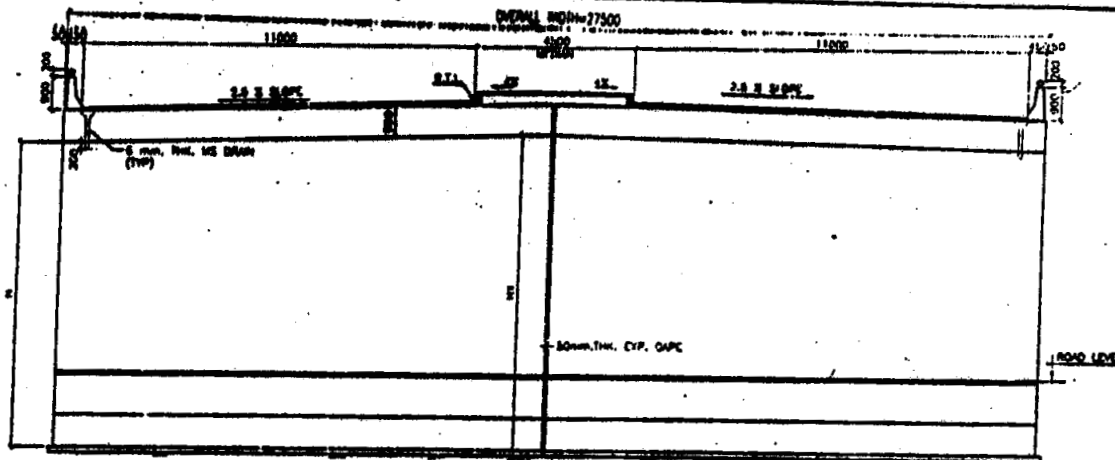
ENGINEER'S SIGNATURE 		DATE N. T. S.		DESIGN NO. RTL-870.463		FIG. NO. : B-46C		SCALE AS SHOWN	
PROJECT NO. N. T. S.		SHEET NO. 1		TOTAL SHEETS 1		APPROVED BY N. T. S.		DATE N. T. S.	
REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS	



000213



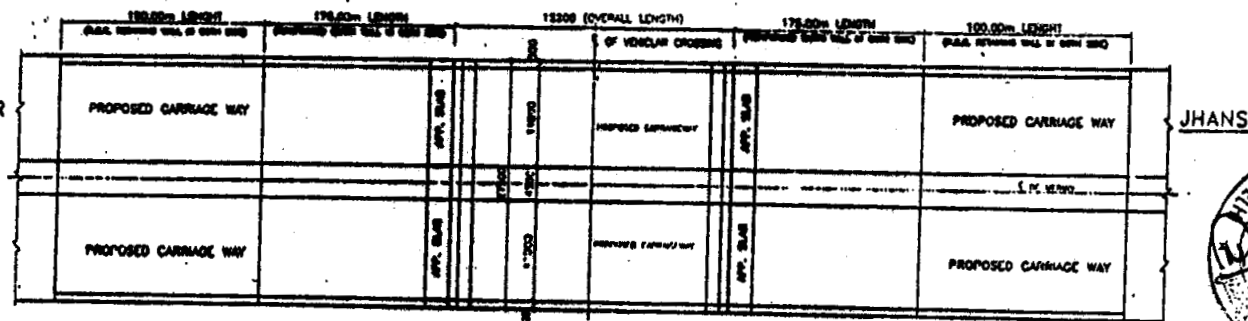
ENGINEER'S NAME EN		PROJECT NAME N. T. S.		DRAWING NUMBER Fig. No. : 8-46D	
ENGINEER'S ADDRESS Engineers & Management Associates 1000 Centre Street, 10th Floor, New York, N.Y. 10017		PROJECT ADDRESS 1000 Centre Street, 10th Floor, New York, N.Y. 10017		DRAWING DATE 1981	
ENGINEER'S SIGNATURE [Signature]		PROJECT SIGNATURE [Signature]		DRAWING SCALE 1" = 10'-0"	
ENGINEER'S TITLE Engineer		PROJECT TITLE Project		DRAWING STATUS Final	



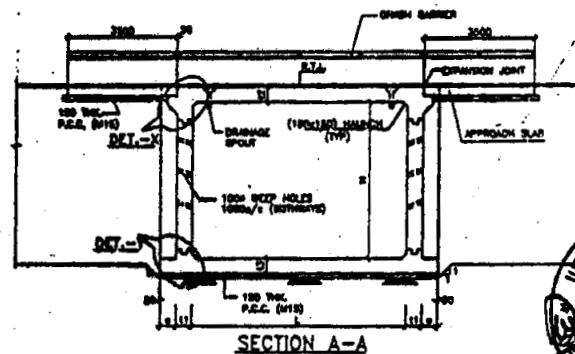
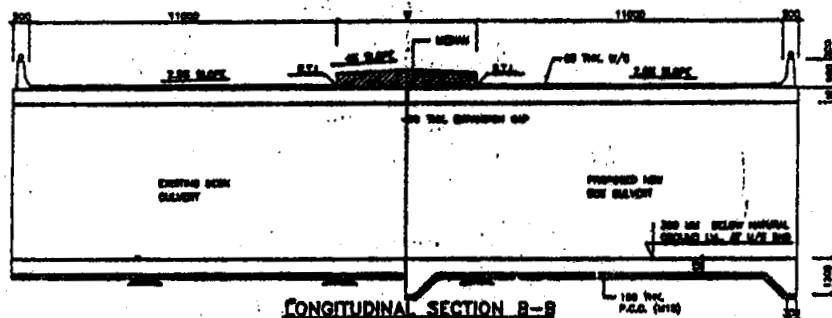
NOTE 1:- THE GENERAL ARRANGEMENT DRAWING (SHEET 1 OF 3 & 2 OF 2) IS APPLICABLE FOR THE BRIDGES SHOWN IN THIS TABLE.

SCHEDULE FOR GRADE SEPARATOR

S. NO.	CHAINAGE	STR. NO.	PROPOSED ROAD TOP LVL.	SERVICE ROAD TOP LVL.	N.G.L.	SPAN (L)	(H)	(H1)
1.	90.875	VC 91/1	247.848		242.848	16500	7050	7350



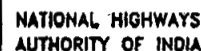
2A Engineers & Management Associates 10/10, New Delhi, India (P) 011-26100215	N. T. S.	Fig. No.: B-47B GENERAL ARRANGEMENT DRAWING OF VEHICULAR CROSSING NO. 10/10 (AT 91/1)	APPROVED CHECKED APPROVED
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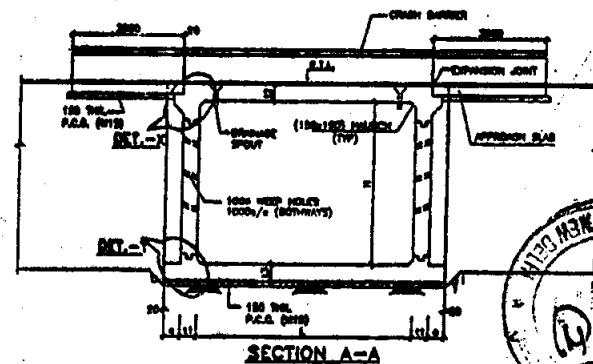
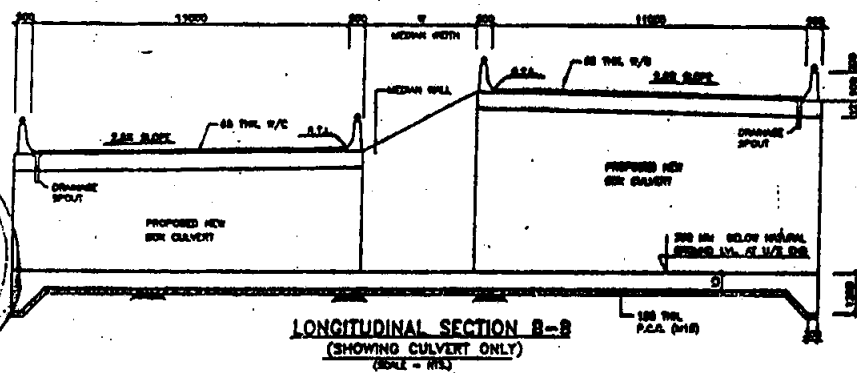
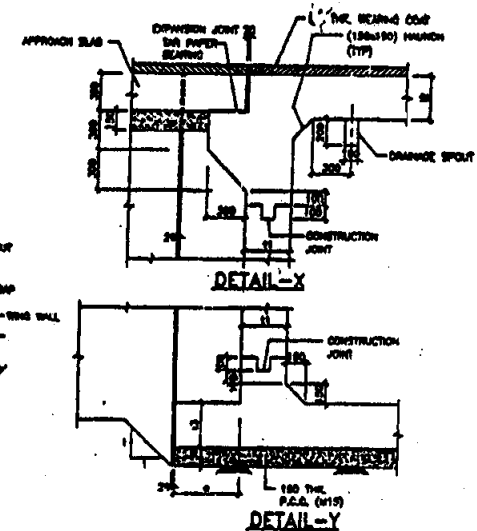
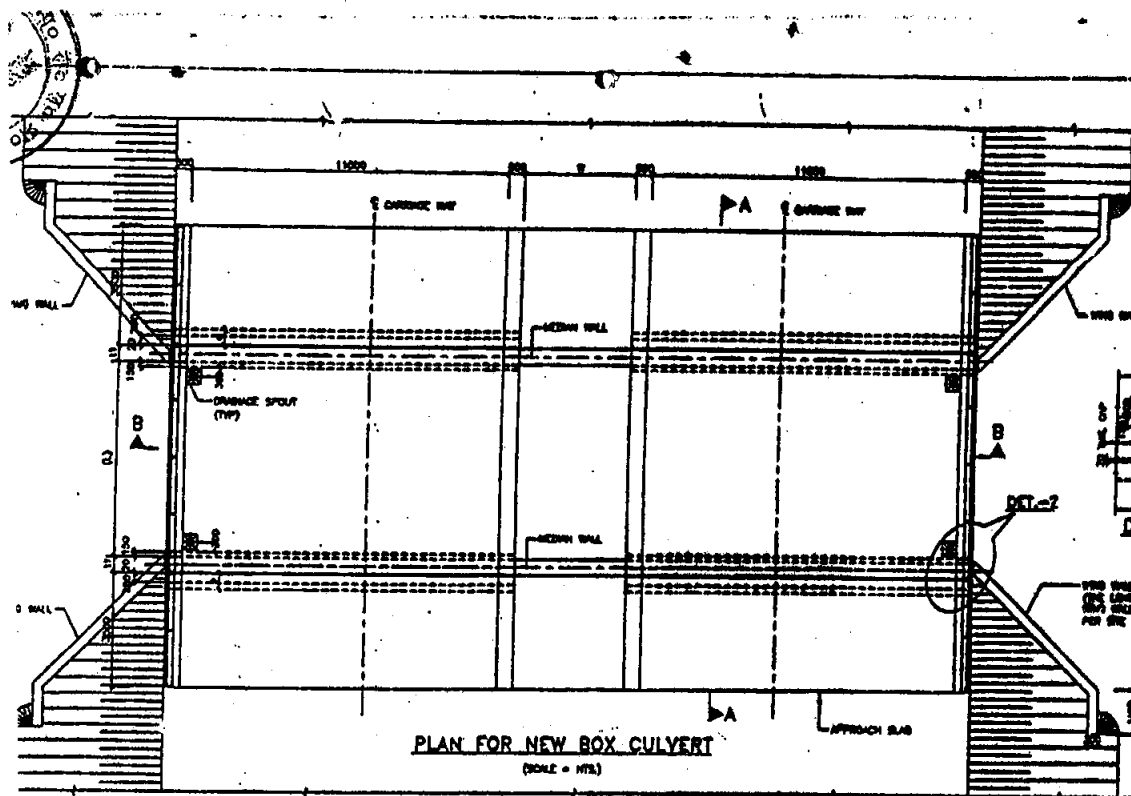
- 
- ENGINEERS & MANAGEMENT
ASSOCIATES INDIA**

REFERENCE DRAWINGS

4



DCOH	DCOED	APPR-5	REVENUE		
			MAJCD	RATE	DESCRIPTION
N. 1044	PROPERTY	W.C.A. FUND			
(DASH)	SCALE	DTC			
84724	(S.Y.S.)	NR-8008			
PAGE 100					



STANDARD NOTES: 1. ALL DIMENSIONS/LEVELS ARE IN METERS. 2. ALL LEVELS ARE IN METERS. 3. ALL DIMENSIONS ARE TO BE FOLLOWED. 4. LOCATION IS CHANGED AT THE LINE OF CULVERT. 5. DIMENSIONS ARE TENTATIVE AND MAY VARY DUE TO SITE CONDITIONS. 6. IF REQUIRED. 7. EACH CULVERT SHALL BE CONSTRUCTED AS PER SITE CONDITIONS. 8. ALL SHALL BE PROVIDED AS PER SITE CONDITIONS. 9. CULVERT SHALL BE CONSTRUCTED IN TWO STAGES. 10. THE SHALL BE CONSTRUCTED IN TWO STAGES TO PROVIDE DISRUPTION OF TRAFFIC. 11. THE SHALL BE PROVIDED BY USING THE VERTICAL WALLS OF CULVERT. 12. IN OF THE CULVERT SHALL BE AS SHOWN IN CROSS SECTION. 13. C SHALL BE 100 FOR BOX, AND FOR APPROACH SLAB. 14. CAN COVER TO ANY REINFORCEMENT BAR SHALL BE 40 mm (EXCEPT) WHEN WHERE THE MINIMUM CLEAR COVER SHALL BE 75 mm.

ENGINEERS & MANAGEMENT ASSOCIATES INDIA

2/31, Kothari Extension, New Delhi-110015, India
Tel.-26219310, 26238872, 26438004

REFERENCE DRAWINGS

NO.	TITLE	DATE

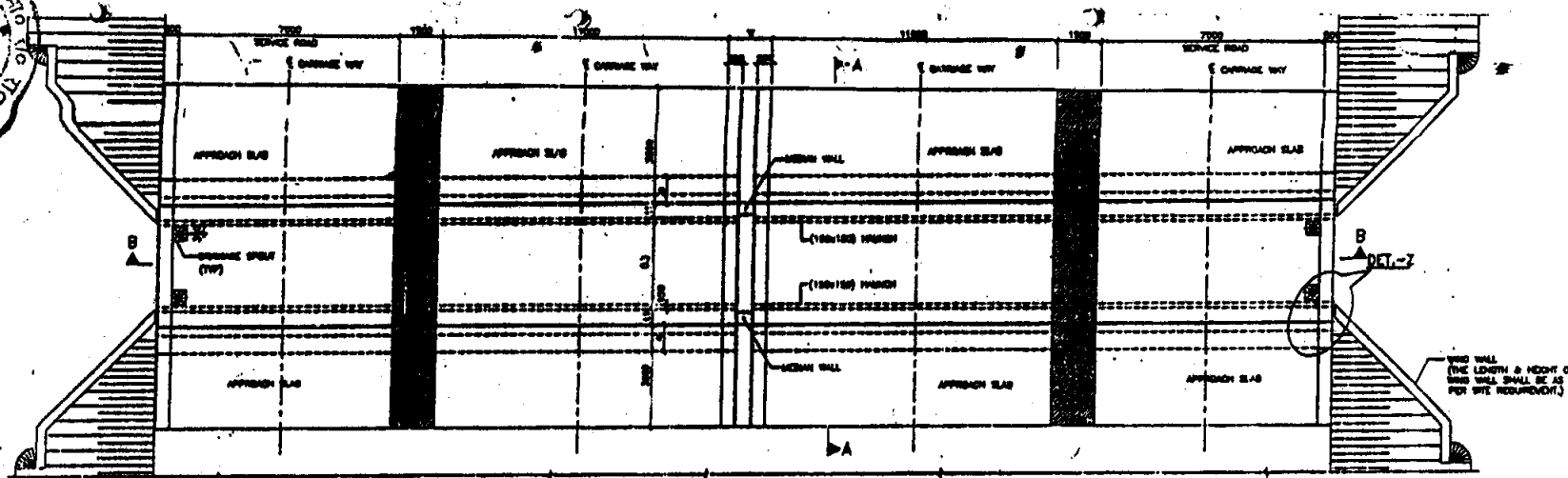


NATIONAL HIGHWAYS AUTHORITY OF INDIA

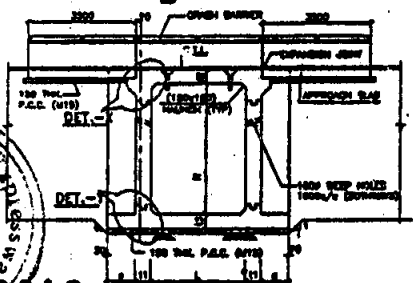
NATIONAL HIGHWAYS AUTHORITY OF INDIA

PROJECT: FOUR LANE OF NH-73 (KM 18.00 TO KM 26.00) C-3-4
TYPE: GENERAL ARRANGEMENT DRAWING FOR BOX CULVERT (TYPE-C)

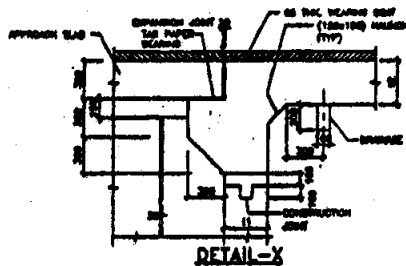
NO.	DATE	APPROVED	REVISION

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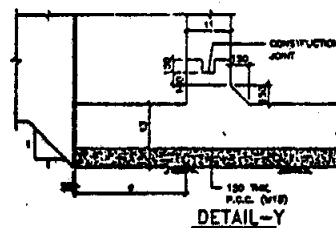
LONGITUDINAL SECTION B-B ^{L-100 TRK.}
(SHOWING CULVERT ONLY) ^{P.C.B. 50TH}



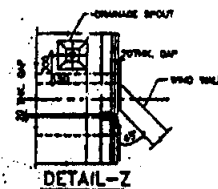
SECTION A-A



DETAIL-X



DETAIL-Y



DETAIL-Z

NOTES :-

1. FILL STRUCTURES WITH ICE, STEEL, AND POLYSTYRENE/STYROFOAM - JAMES (FISH-ON)
2. ALL STRUCTURES ARE TO BE IN A SINGLE ROW AT SURFACE.
3. SURFACES ARE NOT TO BE STAINED, ONLY SURFACES PROTECTORS ARE TO BE PLACED.
4. SURFACES PROTECTORS ARE SHOWN IN GREEN LINE ON DRAWINGS.
5. SURFACES PROTECTORS ARE TO BE PLACED ON ALL SURFACES OF ALL STRUCTURES BEARING EXPOSURE OF RESIN.
6. HEIGHT OF EACH ELEMENT SHALL BE DETERMINED AS PER EACH STRUCTURE.
7. ALL ELEMENTS SHALL BE CONSIDERED TO BE PLACED IN A SINGLE ROW.
8. SURFACES PROTECTORS SHALL BE DISAPPEARING IN TWO PLACES
9. ALL STRUCTURES SHALL BE CONSIDERED IN TWO PLACES TO PREVENT EXPOSURE OF THERMO PLASTIC SURFACES TO BE PLACED IN TWO PLACES.
10. ALL SURFACES SHALL BE CONSIDERED IN TWO PLACES TO PREVENT EXPOSURE OF THERMO PLASTIC SURFACES TO BE PLACED IN TWO PLACES.
11. ALL SURFACES SHALL BE CONSIDERED IN TWO PLACES TO PREVENT EXPOSURE OF THERMO PLASTIC SURFACES TO BE PLACED IN TWO PLACES.
12. SURFACES SHALL BE CONSIDERED IN TWO PLACES TO PREVENT EXPOSURE OF THERMO PLASTIC SURFACES TO BE PLACED IN TWO PLACES.
13. SURFACES SHALL BE CONSIDERED IN TWO PLACES TO PREVENT EXPOSURE OF THERMO PLASTIC SURFACES TO BE PLACED IN TWO PLACES.
14. SURFACES SHALL BE CONSIDERED IN TWO PLACES TO PREVENT EXPOSURE OF THERMO PLASTIC SURFACES TO BE PLACED IN TWO PLACES.
15. SURFACES SHALL BE CONSIDERED IN TWO PLACES TO PREVENT EXPOSURE OF THERMO PLASTIC SURFACES TO BE PLACED IN TWO PLACES.



2/31, Kottaji Extension, New Delhi-110018, India.
Tel.-26218310, 26736672, 26438004

REFERENCE DRAWINGS

Station Time	Station ID



**NATIONAL HIGHWAYS
AUTHORITY OF INDIA**

NATIONAL HIGHWAYS AUTHORITY OF INDIA

PROJECT	FOUR LANEING OF NH-75 (KM 18.00 TO KM 94.00)
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GENERAL ARRANGEMENT DRAWING FOR BOX CUL

ITEM	Q-INDEX	ADDRESS	REVISION		
			MARKED	DATE	DESCRIPTION
M. KUN	R. PERRY	P.C.S. WYMAN			
GR-001	SCALE	DATE			
SANTAN	MTX1	MAR - 1986			

SCHEDULE C
Project Facility

SCHEDULE C

PROJECT FACILITIES

1. GENERAL

The following sections of this Schedule provide the minimum spatial and functional requirements of the facilities to be provided on the Project Highway with an aim to cater to the envisaged demand till the end of the concession period. The Concessionaire shall review the adequacy of the proposed facilities at regular intervals of 3 years and accordingly provide additional facilities with necessary approval from the Independent Consultant in order to meet the demand of the road users till the end of the concession period.

The present Schedule briefly highlights the minimum spatial and functional requirements of the facilities to be provided on the Project Highway in construction package from km 16.000 (Proposed chainage 16.00) to km 6.70 (proposed chainage km 96.127) only.

2. TOLL PLAZA

Typical layout of toll plaza is given in Figure C1 at the end of this Schedule. The toll plaza shall have 4 lanes in each direction including a separate service lane for over sized vehicles and/or toll free traffic. The service lanes are designed for the maximum queue length of vehicles and service time for each vehicle. Normally the service time allowed is 15 seconds for manual/ semi automatic system with a queue length of not more than 5 vehicles at any point of time. High mast lighting shall be provided.

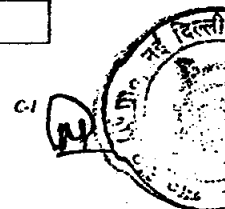
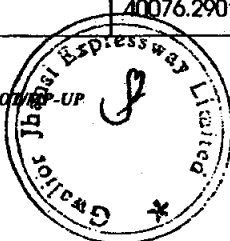
3.0 Bus Bays/ Bus Shelters/Truck lay byes

At places where sufficient bus stoppages are there, Bus stops/Shelters are to be provided. These shelters are generally proposed at existing bus stops and at major road intersections. The typical layout of bus bays and Bus stops are shown in Figure C-2 at the end of this Schedule. However, Concessionaire can change the design of shelter with approval from IC and NHA. Tentative locations of bus bays and bus stops are presented in Table C-2.

✓ Table C-2: Details of tentative Location of Bus bays

Sl.No.	Existing Chainage	Proposed Chainage	Name of Nearest Town/Village	Side
1	17530.000	17525.000	Adupura	Right
2	17582.000	17675.000	Adupura	Left
3	24025.000	24140.000	Antri	Left
4	24076.000	24440.000	Antri	Right
5	38045.000	39923.680	Sumariatal	Right
6	38115.000	40076.290	Sumariatal	Left

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7	50618.000	52948.300	Kotra	Left
8	50965.000	53250.000	Kotra	Right
11	70085.000	70185.640	Govindpur	Left
12	70384.000	70482.270	Govindpur	Right
13	8140.000	94701.150	Simardha	Left
14	7965.000	94909.090	Simardha	Right

Note L= Left hand side and R= Right hand side, while traveling from Gwalior to Jhansi

3.1 Truck Lay bye

No truck lay byes have been planned along the project corridor. However, the concessionaire may explore the possibility of providing Truck lay byes at Dhaba and petrol pumps.

4. PEDESTRIAN/ CATTLE CROSSING FACILITIES

Cattle/pedestrian underpasses in the form of R.C.C. box cells having inner dimensions 3.75m (clear width) x 3.0 m (clear height) size shall be provided at the locations indicated in Table B-13 of Schedule-B or in close vicinity of these locations in consultation with the Independent Consultant.

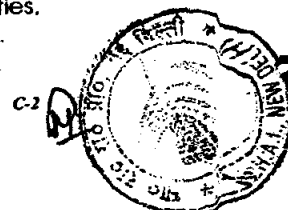
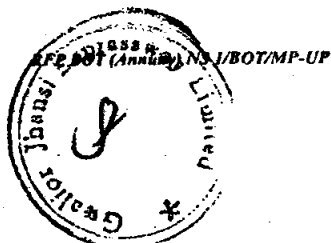
The proposed box cell shall have an opening at its top in full width in the median portion for the provision of daylight. The specifications and standards specified in Schedule-D shall be followed.

5. ADMINISTRATIVE, OPERATION AND MAINTENANCE BASE CAMP

Administrative base camp may be provided. Exact location of administrative base shall be finalized in consultation with IC. However it can be preferably located at toll plaza. The main administrative, operation and maintenance base camp shall be provided to cater to the requirement of the following services.

- Central Traffic Control
- Central Toll Control
- Highway Maintenance
- Facilities for storage and repair of maintenance equipment, vehicles, and materials

The main base camp shall be housed adjacent to the toll complex. An area of approximately 4000sqm shall be earmarked for this purpose. The layout of the different buildings and facilities shall be finalized in consultation with the Independent Consultant. The Administrative building shall primarily house the Control Center, the security headquarters, the central store, the toll audit and data processing units in addition to other secondary facilities such as computer room, office space, stores, sanitary facilities, canteen etc. The base camp shall have adequate parking space for staff and visitors.



In addition, the base camp shall have an electric room and supplies room to cater to the power requirements of the camp. The electric room shall house a standby generator to provide the required power in case of failure of normal power. Power supply to the main base camp to be arranged and all lighting, heating requirements to be provided.

The camps shall have adequate lighting during dark periods and night.

There shall be underground fuel storage area of capacity 20,000 litres with delivery facilities at the campsites to be adequate to cater to the demands of maintenance and patrolling activities.

The base camps shall not have more than one entry and one exit point. Both of these shall be manned by security personnel at all times.

The camp shall be landscaped so as to protect the area from dust and noise from the Project Highway.

6. HIGHWAY LIGHTING

The lighting in classified urban areas should be on the Project Highway, grade separators, toll plaza and main administrative base camp. Traffic aid posts shall be provided in accordance with the standards set in Schedule D.

7. LANDSCAPING

Landscape treatment of the Project shall be undertaken through planting of trees and ground cover of appropriate varieties and landscaping on surplus land in the ROW and median in accordance with Schedule D.

Shrubs of low height shall be planted in the median of highway. Plantation scheme shall be prepared in consultation with Forest Department of the State Government and the Independent Consultant in accordance with Schedule D.

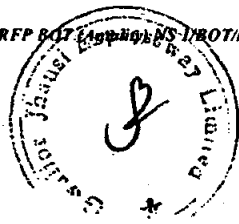
8. ENVIRONMENT

In view of the statutory requirement of environmental clearance for Highway Projects, the NHAI decided to carry out environmental and social impact assessment of the proposed widening and strengthening of the Project Highway. The environmental and social assessment study has accordingly, been carried out and is presented in a report titled:

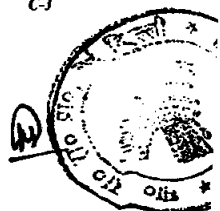
"Detailed Project Report for Gwalior-Jhansi Section of NH-75 (km 16.0 to km 56.0 & km 56.0 to km 96.00)"

"Environmental Assessment Report" - Volume IVA &
Resettlement Action Plan Volume IVB

RFP Part IV (Appendix) DS/DROT/MP-UP



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The said report brings out the baseline environmental and social conditions, envisaged impacts of the Project, mitigation measures proposed and suitable management plan for monitoring and implementation of measures.

The Project Highway during design, construction, operation and maintenance shall conform to the environmental rules and regulations in force. The Concessionaire shall be responsible for the same. As such a copy of the report in question is enclosed herewith for guidance of the Concessionaire. However this does not absolve the Concessionaire from performance according to the laws on environment.

9. ROAD FURNITURE AND ROAD SIDE FACILITIES

Road furniture and roadside facilities like litterbins, public toilet and drinking water kiosks shall be provided in Project highway as per standards mentioned in Schedule D.

10. FACILITIES TO BE PROVIDED FOR NHAI

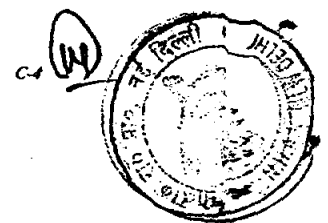
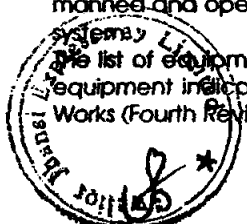
The Concessionaire shall provide the following facilities for NHAI

- i. The Concessionaire shall provide a new 4x4 driven A.C. Vehicle to the PIU and all the expenses made against vehicle maintenance including fuel charges, driver salary etc shall be borne by Concessionaire for the entire concession period.
- ii. The Concessionaire shall provide at least two latest mobile phones with connection
- iii. The Concessionaire shall also provide following supporting staff for NHAI including their wages and additional benefits for the entire concession period
 - One stenographer
 - One Office attendant/peon

11. LAB FACILITIES FOR IC

The Concessionaire shall provide a well-established highway/ material engineering laboratory with latest state-of-art material testing equipments. This lab will also be manned and operated by IC for quality control. The Lab shall also have power stand by

The list of equipments shall be finalized in consultation with NHAI/IC. However, minimum equipment indicated in Clause No 121 of Standard Specifications for Road and Bridge Works (Fourth Revision 2001) shall be provided.



SCHEDULE D
Specification and Standards

SCHEDULE-D
SPECIFICATIONS AND STANDARDS

1. INTRODUCTION

1.1 The Designs for various elements of the Project including facilities shall conform to the minimum design requirements set out in DPR and this Schedule. Alternative or additional designs submitted by the Concessionaire shall also meet these requirements.

1.2 Concessionaire in consultation with and approval of Independent Consultant / NHAI can adopt alternative designs for Bridges, Culverts, Flyovers, Retaining Earth Walls, Overpass and Underpass. In case the Concessionaire follows the DPR designs it shall carry out its own engineering surveys and shall be solely responsible for such designs. However, total length of viaduct portion of structure should not be reduced from that of mentioned in Schedule B. Also, the linear water way requirement, span arrangement and Road Top Level given in the Annexure I shall be strictly followed. Notwithstanding anything to the contrary contained herein, the Concessionaire shall carry out its own engineering surveys and designs and shall be responsible for design, engineering and construction of the Project Highway as per the Specifications and Standards in accordance with the provisions of this Agreement

1.3 The Concessionaire shall strictly follow the horizontal alignment given in the DPR. In case DPR alignment design is deficient in terms of standards to be followed for the design speed of 100 kmph, improvements to alignment can be done with consultation and approval of Independent Consultant.

1.4 In no case the FRL of the additional 2/3 lanes shall be less than that of existing Carriageway. The vertical profile has already been finalized by the Annexure I consultant. The concessionaire shall follow the finalized vertical alignment as minimum requirement. In no case the depth of cut shall not be more than that mentioned in DPR at any section of the Project Highway.

1.5 The Cross sectional elements specified for the Project shall be strictly followed.

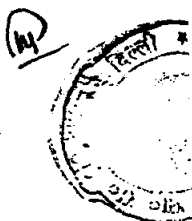
1.6 All works related to the Project Highway shall conform to the Guidelines and Special Publications as applicable to National Highways and Ministry of Shipping, Road Transport and Highway earlier Ministry of Road Transport and Highway (MORT&H) Specifications and Indian Roads Congress (IRC) standards, Codes, with all updates till 30 days before the date of bid submission by the Concessionaire. In the absence of any definite provisions on National Highways Authority of India any particular issue related to the Specifications and/or standards, reference may be made to the latest codes and Specifications of Bureau of Indian Standards, British Standards, AASHTO, ASTM or any other International standard in that order. But, where even these are silent, the construction and completion of the works shall conform to sound engineering practice with the approval of the Independent Consultant / NHAI.

1.7 Amendments and/ or modifications carried out by the Ministry of Road Transport and Highway in the MORT&H Specifications and IRC standards, and codes and available to public 30 days before the date of receipt of bids shall be applicable.

RFP BOT (NHAI) NSI/BOT/MP-UP



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1.8 Whenever any specific provision for any building works is given in the MORT&H Specifications, IRC standards and codes, those shall apply. All building works shall conform to Central Public Works Department (CPWD) Specifications for class 1 building works or standards given in the National Building Code (NBC) as amended and/or modified from time to time. For the purpose of this clause, building works shall be deemed to include road furniture, landscape elements and /or any other works incidental to the building works.

1.9 In case, any further amendments and/ or modifications in the said Specifications and/or standards and codes come into force after the said date (clause 1.8 above) and have financial impact, the matter shall be settled according to the Concession Agreement.

1.10 In so far as amended/modified/added clause supersedes a clause or part thereof in the said Specifications and standards, then any reference to the superseded clause elsewhere shall be deemed to refer to the amended/modified /added clause or part thereof.

1.11 If amended/modified/added clause provision comes in conflict or be inconsistent with any of the provisions of the said Specifications and standards, the amended/modified/ added clause shall always prevail.

1.12 The Concessionaire shall plan and implement the quality assurance programme for the Project Highway and finalize it in consultation with the Independent Consultant at least one month prior to the commencement of the work.

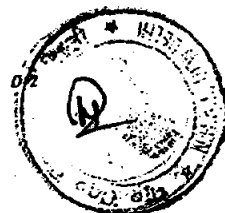
1.13 The quality and/ or the quantities of various items shall primarily be the responsibility of the Concessionaire. The Independent Consultant shall, however, ensure and/ or verify it by devising suitable means. On noticing any deficiency in the quality and/ or quantity, corrective measures as ordered by the Independent Consultant shall be carried out by the Concessionaire at the Concessionaire's cost to the satisfaction of the Independent Consultant.

In case of any disagreement or non-compliance by the Concessionaire, the dispute will be referred to NHAI to resolve it in terms of the Concession Agreement.

2. DESIGN STANDARDS

2.1 Design Standards comprise of MORT&H policy circulars and IRC codes, guidelines and special publications applicable to National Highways. The design standards adopted in DPR shall be generally followed. NHAI policy guidelines and respective State government current requirements and guidelines shall be adopted for landscaping and tree plantation along the corridor. Where the said standards are silent on any item, the following standards in order of preference shall be adopted with the approval of the Independent Consultant/NHAI.

- i. Bureau of Indian Standards (BIS)
- ii. American Association of State Highway and Transport Officials (AASHTO)
- iii. American Society of Testing Materials (ASTM)
- iv. British Standards (BS)
- v. Any other National or International Standard suggested by the Concessionaire.



Designs offered by the Concessionaire shall comply with the standards as spelt out in clause 2.1 above.

The list of Codes in Annexure 1 is given to serve as a guide for design of various elements of Project Highway.

2.3 Geometric Design Standards

2.3.1 Geometric design standards shall be adopted as per IRC codes as applicable to the National Highways. The design Standards and design criteria adopted in DPR shall be followed.

2.4 Geotechnical Design

2.4.1 Cut and fill slopes shall be appropriate to the nature of the material and the height of embankment or depth of cut. The embankment shall be safe against slope failure and the settlement should be within acceptable limits. If necessary, surcharge shall be placed on the embankment to induce faster rate of settlement. The settlement due to surcharge needs to be monitored using appropriate instrumentation and pavement works taken up only after the 90% of the expected settlement has taken place and with the approval of the IC.

2.4.2 Material used in the fill and its compaction requirements shall conform to IRC - 36-1970. Where these Specifications are in variance with the MORT&H Specifications the latter shall govern and be followed.

2.4.3 According to the present government guidelines, the use of flyash wherever possible within a radius of 10 Km of thermal plants is mandatory. The Concessionaire shall explore this possibility and incorporate in the design of the project facilities.

2.5 Pavement Design

2.5.1 The Pavement crust thickness requirement as mentioned in Schedule B for various elements shall be the bare minimum requirement for the Project. Any additional thickness above and over that mentioned in Schedule B shall be finalised in consultation with Independent Consultant.

2.5.2 The new flexible pavement shall have Bituminous Concrete (BC) (also termed Asphaltic concrete (AC)) wearing course laid over Dense Bituminous Macadam (DBM). Underneath DBM a bituminous base course of Bituminous Macadam (BM) shall be provided if necessary as per design requirements. It will be laid on Wet Mix Macadam (WMM) base course. The subbase granular material shall conform to the grading, density and other physical requirements stipulated in MORT&H Specifications and shall have a minimum CBR of 30% at 97% Maximum Dry Density (MDD). Material Chosen for subgrade shall have CBR not less than that suggested in DPR at 97% MDD.

2.5.3 Refinery/Centrally Processed Polymer Modified bitumen (PMB-40) shall be used for bituminous concrete wearing courses in accordance with the stipulations of relevant and latest IRC & MORT&H guidelines.

2.5.4 The minimum requirement of thickness for Cement concrete pavement shall be as mentioned in Schedule-B for Toll Plaza Locations. The flexural strength of concrete used for PQC should not be less than 45 Kg/cm². In case Concessionaire desires to adopt rigid



pavement for new carriageway or any other facilities other than toll plaza, the above mentioned minimum thickness shall be provided in consultation with Independent Consultant.

2.5.5 Rigid pavement should be provided below the underpass locations where the Project Highway is flying over the crossroad and proposed underpass is not a RCC box structure. In case the crossroad is NH or SH the rigid pavement of at least same thickness as that of Toll Plaza as mentioned in Schedule B shall be provided. In case the crossroad is MDR/ODR the rigid pavement shall be designed and finalised in consultation with Independent Consultant.

2.5.6 To ensure internal drainage of the pavement structure, the lower drainage layer of the road subbase shall extend upto full formation width.

2.5.7 Unevenness index of the pavement on completion shall not be more than 2000 mm per km measured with Bump Integrator fitted in a vehicle or an equivalent device approved by the Independent Consultant/NHA. The instrument used in the measurement of roughness shall be calibrated as per guidelines given in the World Bank Technical Note No.46.

2.6 Drainage System

2.6.1 An effective surface and sub surface drainage system of pavement structure shall be designed as stipulated in IRC SP: 42 (1994).

2.6.2 Rainwater Harvesting System shall be provided all along the Project Highway as per provisions of DPR and IRC SP 50:1999.

2.6.2 Drainage system as designed and adopted in DPR for the drainage of carriageways in urban areas, rural areas, medians, toll plazas, wayside amenities, truck parking areas, bus-bays, rain water harvesting systems and other highway features are the minimum requirement for the Project and shall be followed. The concessionaire in consultation and approval of IC should work out a more effective drainage system before implementing the scheme given in the DPR.

2.7 Design Standards for Culverts, Bridges, Underpasses, Over bridges

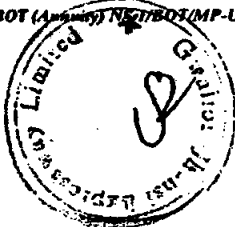
2.7.1 The design standards and loading to be considered for culverts, bridges, underpasses and over bridges shall be those laid down in the latest relevant IRC codes and / or IS codes. Where the said codes are found wanting or are silent other codes as stipulated in Clause 2.1 above shall be followed.

2.7.2 MORT&H specification (Clause 2607.2) shall be followed for the material of strip seal expansion joints.

2.7.3 Design of POT/PTFE bearings design shall be done in accordance with IRC 83 (Part-III) Specifications.

2.7.4 Specifications for structural Concrete shall be as per IRC 21: 2000.

2.7.5 HDPE sheathing shall be used for pre-stressing.



2.7.6 Pre-stressing anchorages shall conform to the latest BS code CEB-FIP recommendations.

2.7.7 Design of voided slabs shall conform to the draft Specifications as considered by the IRC council.

2.7.8 Provision of pile foundations if proposed by Concessionaire shall have the approval of Independent Consultant. Pile load test shall be performed by conventional load testing method and not by high-energy method.

2.7.9 Conduct of Field Pull Out test for RE walls is mandatory. In addition to this, Specifications given in DPR shall be followed for RE wall design and construction.

2.8 Existing Culverts, Bridges

2.8.1 The unsafe and/or deficient bridge and culvert structures on the existing 2 lane carriageway shall be rehabilitated or replaced by sound structures to carry the IRC design loads spelt out in clause 2.7.1 above. The recommendations for rehabilitation of CD structures mentioned in DPR and Schedule-B are the bare minimum and any additional structure, which is required to be reconstructed, or any additional requirement for rehabilitation other than those mentioned in DPR and Schedule-B shall be finalised in consultation with Independent Consultant.

2.8.2 Where the existing structures are retained and extended, the extension shall be done with same type of structure and properly adjusted and matched with the existing structure. The guidelines provided in DPR shall be followed for this purpose.

2.9 Intersections

2.9.1 At-grade intersections shall be designed according to IRC Special Publication 41 'Guidelines for the Design of At-grade Intersections in Rural & Urban Areas' and the MORT&I Type Designs for Intersections on National Highways, with modifications where required. The designs set out in DPR for intersections shall form the basis for the design. Treatment at any additional intersection other than those mentioned Schedule-B, shall be finalised in consultation with Independent Consultant.

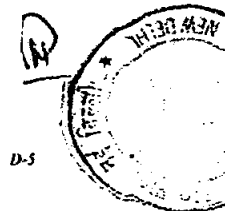
2.9.2 For the design of elements not covered in the said publications, the AASHTO publication 'A Policy on the Geometric Design of Highways and Streets' shall be followed.

2.9.3 Geometric design standards for elements of grade-separated intersections given in DPR shall be adopted.

2.9.4 For elements not covered in DPR, Guidelines of IRC-92-1985 supplemented by relevant MORT&H and the AASHTO publication 'A Policy on Geometric Design of Highways and Streets' shall be used.



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2.10 Litter Bins

2.10.1 The litterbins shall be located at no more than 100 m intervals in the rest area and the truck parking lay-byes. The bus stops shall be provided with at least one litterbin.

2.10.2 The capacity of the litterbin shall be as per requirement, subject to a minimum of 30 litres.

2.11 Public Toilets

2.11.1 Requisite number of urinals, WC and bathing places supported by adequate water supply and sewerage facilities and appurtenances as per the National Building Code (NBC) shall be provided at truck parking lay-byes, subject to a minimum of 4 WC, 5 urinals and 3 bathing places. Number of urinals, WC and bathing spaces in all other places including the rest areas will be as per the NBC. The entrance of the ladies toilet shall be clearly marked and segregated from the men's toilet.

2.11.2 At least 2-m wide area around the toilet blocks shall be paved with adequate cross slopes and drainage to ensure speedy disposal of water. Arrangement for sewage disposal shall be provided.

2.12 Drinking Water Kiosk

2.12.1 Drinking water kiosks at the Truck Lay byes and Bus shelters shall have a minimum of 4 taps of push button type. The drinking water kiosks shall be easily accessible to children and handicapped people. The water kiosks shall be properly segregated and shall be at least 3 m away from the toilet blocks, if any. Water supply shall be through existing water pipe line. In absence of this, provisions for ground water extraction shall be made.

2.12.2 Water storage in the drinking water kiosks shall be as per the National Building Code (NBC), subject to a minimum of 200 litres. At least 2 sq.m. area around the drinking water kiosks shall be paved with adequate cross slopes and drainage to ensure speedy disposal of spill water.

2.13 Highway Lighting System

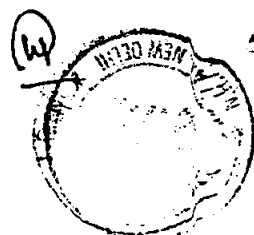
2.13.1 The night-time illumination in the areas used by pedestrian shall not be less than 20 lux. In urban areas, it is recommended that semi-cut-off luminaries shall be provided. Arrangement of lighting installations shall be staggered except at curves. High mast lighting shall be adopted for lighting of Toll Plazas, all Grade Separated Junctions and any other locations as mentioned in Schedule-B.

2.13.2 The layout of masts, their height and spacing shall be fixed in consultation with the Independent Consultants so that the minimum illumination level prescribed in 2.13.1 above is achieved.

2.13.3 Non-Conventional Sources of lighting system shall be provided at all At-grade Intersections as mentioned in Schedule-B with solar energy. The general Specifications mentioned in DPR shall be followed for this purpose.



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2.14 Highway Traffic Management System (HTMS)

HTMS shall provide facilities to the highway users to make emergency calls through Emergency Call Booths (ECBs) to control centre in case of accidents, break down of vehicle and fire and to pre-warn the highway users about unusual conditions on the road. It shall provide information / data to traffic managers on traffic flow, conditions, speed and weather conditions, location of any incident and help required and on incoming calls. Based on these, the traffic managers should be able to exercise control on changing the variable message signs, mobilising the movement of ambulances, cranes, highway patrol units and fire tenders. HTMS shall also provide on line recording and reviewing of the voice and individual information for record and analysis.

2.14.1 All equipment shall comply and be installed in accordance with IEC 364, with minimum of CENELEC standards EN 50128 software integrity level 2.

2.14.2 The HTMS shall have an overall system mobility of better than 99% and shall be considered unavailable if any of the functions can not be properly executed. The mean time to restore to the normal operation following a failure shall be less than four hours all inclusive. The service life of HTMS shall be 10 years.

2.14.3 All outdoor equipment for the facility of the users such as Emergency Call Booths (ECB) and Message Signs (MS) shall be installed at locations which shall be clearly visible to the approaching drivers. The ECBs shall have proper sign identifications

2.15 Traffic Safety Measures**2.15.1 Highway Patrolling**

The Concessionaire is required to provide round the clock route patrols to assist motorists. The patrol personnel should be adequately trained to the satisfaction of the Independent Consultant in traffic management, road safety and in primary First Aid. The purpose of these patrols is to:

- Provide the users of the Project Highway with basic mechanical help for vehicles that break down on the National Highway Section, and protect other motorists from such vehicles
- Immediately identify traffic hazards of whatever nature, such as unauthorised parking, public transport vehicles obstructing traffic during passenger loading and unloading, debris, stray animals and the like. The Concessionaire shall take the necessary measures to remove such obstructions.
- Provide emergency management at accident scenes until such time as the appropriate authorities arrive.
- Assist the motorist, for the removal of damaged or mechanically impaired vehicles from the Project Highway.
- Provide road user information and to further the image of the National Highway Section in a professional and friendly manner.
- Maintain daily records of assistance provided to motorists
- Observe, record and report suspect aspects of the highway, hazards and incidental damage caused by vehicles, floods, storms, or other random events, such that the highway maintenance records and data base are continuously improved.

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2.15.1.1 Patrol vehicles

The Concessionaire will provide 4x4 drive Patrol vehicles as stipulated in the Contract. Each vehicle shall accommodate a minimum 3 persons including the driver. The Concessionaire will also make arrangements for standby vehicles.

2.15.1.2 Ambulances

The Concessionaire will provide ambulances having all facilities of emergency assistance required like stretcher to carry the patient, Emergency Medicines, oxygen etc.

2.15.1.3 Cranes

The Concessionaire will provide cranes of 15 MT capacity having all requisite arrangements of pulling and lifting of accidental/break down vehicles. Table D-1 presents the serviceability indicators, required maintenance level that shall be followed by Concessionaire as part of highway patrolling.

Table D-1: Serviceability Indicators and required maintenance level for Patrolling

Sl. No	Serviceability Indicator	Required Maintenance Level	Frequency of Inspections by Engineer to Ensure Required Level of Service
1.	Tow trucks, cranes & ambulances etc.	within 30 minutes of incident occurrence	Daily on regular basis followed by weekly & monthly inspections
2.	Frequency of highway patrol	Every 4/6 hours on each carriageway for entire stretch (logging system)	Daily on regular basis followed by weekly & monthly inspections

2.15.2 Pedestrian Guard Rails and Safety Barriers

2.15.2.1 Pedestrian guardrail shall be provided at the following locations

- At the places where pedestrian activity is high
- on raised foot path on the side of carriageway at bus stops and bus bays mentioned in

Schedule-C, for adequate length for pedestrian safety, not less than 20 m on either side. The layout of pedestrian guard-rails at crossings, road intersections shall be as per the drawing given in DPR. On kerbed road sections, guard-rails shall be at least 15 cm away from the edge of carriageway.

2.15.2.2 Safety barriers shall be located at the following locations

- At high embankments which have height > 3m when measured from the top of the pavement to the natural ground.
- At sharp horizontal curves whose radius is less than 500 m by the side of ponds, lakes, open wells even when the height of embankment is less than 3 m.
- Along the central median at places where median width is 1.5 m and also in the lengths where median tapers from 5.0 m to 1.5 m.. Typical layout for safety barriers is given in DPR.
- on the approaches of major and minor bridges for a length of at least 25m on both sides even if the embankment height is less than 3m.



2.15.3 Traffic Blinker Signal with Liquid Electromagnetic Display (LED)

The road traffic signals, its configuration, size, location and other requirements shall be as per IRC: 93 - 1985 and IS: 7537 - 1974.

Blinker Signal shall be provided at all intersections with SH/MDR/ODR category roads in rural areas with non-conventional energy sources like solar energy. The general Specifications mentioned in DPR shall be followed for this purpose.

2.15.4 Road Studs

2.15.4.1 Nineteen degree (19°) tilted one-way reflective road studs with anchor and with 1x43 glass elements etc. complete shall be provided at 1 m c/c on pedestrian crossing with red reflective panel as per EN 1463 and BS873 part IV (1987). Road studs shall also be provided at 9 m c/c on edge lanes, lane lines for a length of at least 130 m on the approaching side of the intersection with white reflective panels as per BS873 part IV (1987) replaced partly with BS EN 1463-1: 1998.

2.16 Highway Signs

2.16.1 The design and location of route marker signs for National Highway shall be as per the IRC: 2-1968. The design and placement of highway kilometre stones, the dimensions of stones, size, color, arrangement of letters shall be as per IRC: 26-1967 and IRC: 8-1980. The design, location and materials to be used for Road delineators shall be as per IRC: 79-1981.

The color, configuration, size and location of size of traffic signs shall be as per IRC: 67-2001.

2.16.2 For the road signs the standards set in IRC: 67-2001, Code of Practice for Road Signs shall be followed. As regards, the overhead signs the standards prescribed by MORT&H shall be followed. Where these are silent, standards prescribed in BIS/British Standards/AASHTO/ASTM or any other international standard in that order shall be adopted in consultation with the Independent Consultant / NHAI.

2.16.3 All the cautionary/mandatory signs shall be provided on shoulder and median for each direction of traffic for clear visibility during overtaking operations.

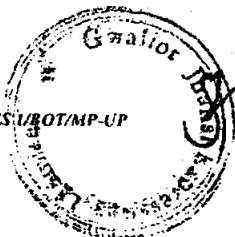
2.16.4 On kerbed road sections the edges of the road signs shall be at least 60 cm away from the edge of the kerb, where as on un-kerbed road sections the edge of the signs shall be at a distance of 2 m from the edge of the carriageway.

2.17 Pavement Markings

2.17.1 Pavement markings shall be designed and provided in accordance with IRC: 35-1997 "Code of Practice for Road Markings" in consultation with the Independent Consultant.

2.17.2 Centre line, Edge line (outer), Edge line (inner) and pedestrian crossing shall follow the guidelines mentioned in BS EN 1436 - 1998.

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2.18 Pickup Bus Stops & Bus Bays

2.18.1 The layout, design and location of the pickup bus stops shall be as mentioned in Schedule C and shall follow the Specifications of IRC: 80 - 1981. The sizes of the bus shelters shall be 0.6 m² per person during peak load depending on the frequency of buses to be handled by each stop. Bus stops shall be provided on both sides of the road for either direction of traffic. The plinth height of the bus stop shall be 0.3 m from the bus bay level and shall be 2 risers high. The minimum ceiling height of the structure shall be 2.1 m. The height of seating shall be 0.4 m from floor level while the back of the seat shall be 0.35 m high. Seating space per person shall be 0.45m X 0.45m, while minimum leg and circulation space for each seat shall be 0.6 m. Each bus stop shall have at least one litter bin. The pedestrian guard rails shall be provided as described earlier in this Schedule.

2.18.2 No raised medians shall be constructed at bus bay locations. Chevron marking and bollard system shall be provided at the median portion between main carriageway and bus bay for delineation of bus bay from main carriage way.

2.19 Truck Parking Facility

2.19.1 The parking length at bays for each vehicle shall not be less than 15 m and parking width for each vehicle shall be 2.75 m. The length of the lay-bye shall be as per parking requirement subject to a minimum of 100 m and the minimum width of the raised separator between the lay-bye and the carriageway shall be 3m in rural sections. The parking spaces shall be parallel to the road. Parking lots shall be adequately illuminated and nighttime illumination shall not be less than 20 lux.

2.20 Landscaping

2.20.1 Trees shall be planted in rows and on either side of the road with staggered pitch as per the IRC: SP: 21-1979. A range of 10-15 m c/c is recommended for spacing of trees (parallel to the road). Setback distance of trees needed in different situations shall be as per the IRC: SP: 21-1979 and the IRC: 66-1976. The distance between the kerb, if any, and the nearest edge of tree trunk shall be at least 2 m. Shrubs in medians shall not normally exceed 1-1.5 m in height and shall be as per IRC: SP: 21-1979.

2.20.2 Relevant provisions of NHAI policy guidelines and respective State Government current requirements and guidelines shall be followed for landscaping.

2.20.3 The Environment and Social Impact Assessment Report, (Clause 13 Schedule C) attached shall be followed in respect of plantation.

For safe traffic operation vertical clearance between the crown of the carriageway and lowest part of the overhang of the tree available across the roadway shall conform to the standards set down in IRC: SP: 21-1979. The pit size, fencing, watering and maturing requirements shall also conform to the above standard. Planting shall be such that it does not obstruct the visibility of traffic from any side and shall be pleasing in appearance.

2.21 Utility Ducts

Two (2) Numbers of Utility ducts shall be provided at an interval of 500m in urban sections and 2000m in rural sections for cross connection. These ducts shall be made of NP4 pipes



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of minimum 300mm diameter and shall be provided below the ground level. The above mentioned size of the pipe is bare minimum. It is advocated that the cross ducts be taken across the road on the ceiling of the box culverts that have been provided at regular intervals. However, if a need is ascertained for cross duct the same may be provided in consultation and approval of the IC. It shall be increased if necessary in consultation with respective service departments and Independent Consultant. Location and level of the cross utility ducts shall be finalized in consultation with the Independent Consultant and NHAJ.

3. SPECIFICATIONS

3.1 'Specifications' herein under mean the Specifications relating to the quality and other requirements for the Project Highway as set forth in this Schedule and any modifications there-of, or additions there-to as included in the Specifications of DPR for the Project Highway.

3.2 All Specifications (Additional & Modified) for materials used shall be consistent with DPR Specifications and other publications referred to therein.

3.3 The materials to be used in the work of the Project Highway (including facilities thereon) shall conform to DPR and MORT&H Specifications. However, where the said Specifications are silent in regard to Specification for the material in question in that case, Specifications under Bureau of Indian Standard/British Standards/AASHTO/ASTM shall apply in that order. But even where these standards are silent, the Concessionaire shall get the Specifications for the material in question approved by the Independent Consultant prior to its use in the work.

3.4 Fly ash shall be utilised in the road construction if it is available in adequate quantity within a radius of 100 Km from the Project corridor as per Ministry of Environment and Forest regulations. For usage of fly ash as embankment fill material, relevant cross section detail given in schedule B shall be followed.

3.5 In addition to road and bridge works, there will be other works, described herein under, on the Project Highway. Wherever the tailor made Specifications are not available for these works, specific approval of the Independent Consultant shall be obtained by the Concessionaire in respect to that particular item of work.

3.5.1 HIGHWAY LANDSCAPING

3.5.1.1 Planting of trees along the Project Highway shall follow a variety of schemes depending upon location requirement as per the IRC: SP: 21-1979. The choice of trees to be planted shall also be made as per IRC: SP: 21-1979: "Manual on Landscaping". Eucalyptus (all species) is not recommended for planting. Local, Indigenous species that grow in high salinity microclimate shall be planted.

3.5.1.2 On medians and as under-crop, planting of dust and gaseous substance-absorbing shrubs such as nerium oleander album is recommended. To ensure survival from herbivorous animals, shrubs/plants containing latex shall only be planted.





3.5.1.3 Preparation of schemes for Project Highway development, restriction on building lines, control lines, control of access, prevention unauthorised occupation of land and removal of encroachment shall be as per IRC: SP : 15-1996

3.5.1.4 The treatment of the highway embankment slopes shall be as per the recommendations of IRC: 56-1974, depending upon the soil types involved. Pitching works on the slopes shall be as per the MORT&H Specifications.

3.5.1.5 Construction of CC (M-20) footpaths for pedestrians shall be as per MORT&H Specifications.

3.5.1.6 No advertisement shall be allowed to be erected within the RoW.

3.5.1.7 It shall be ensured that any sign, signal or any other device erected for traffic control, traffic guidance and/or traffic information shall not obscure any other traffic sign.

3.5.2 BUILDINGS

3.5.2.1 All building works shall be designed to meet the functional requirements and shall be compatible with the regional architecture and microclimate. Locally available materials shall be given preference but not at the cost of construction quality. All brick and stone masonry works shall be of first class type and as per good practice. All steel works shall conform to section 6, Part VI of the NBC and section 1900 and 2000 of MORT&H Specifications.

3.5.2.2 Whenever any specific provision for any building works is given in the MORT&H Specifications, IRC standards and codes, those shall apply. All building works shall conform to Central Public Works Department (CPWD) Specifications for class I building works or standards given in the National Building Code (NBC) as amended and/or modified from time to time. For the purpose of this clause, building works shall be deemed to include road furniture, landscape elements and /or any other works incidental to the building works.

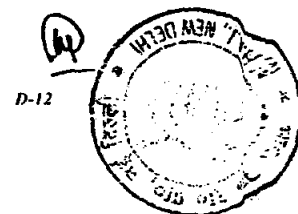
3.5.2.3 All the open spaces around the building(s) shall be landscaped. Boundary walls, fencing, controlled entry points and cattle-catches at all entry and exit points to the buildings shall be provided to protect them from intruders and animals.

3.5.2.4 The design of water distribution and storage systems, laying of mains and pipes, cleaning and disinfecting of the water supply system shall be as per relevant clauses of section 1, Part IX of the NBC.

3.5.2.5 The design, layout and construction of drains for sewage disposal system with all ancillary works such as connections, manholes and inspection chambers and septic tanks

shall be as per relevant clauses of Section 2, Part IX of the NBC. Each septic tank, if provided, shall have a soak pit of adequate size. The location of the septic tanks and subsurface absorption system shall be as per clause 12.15.1 of part I of NBC.

3.5.2.6 The design and location of all electrical installations, distribution system, wiring, fittings, accessories and lightning protection of buildings shall be as per relevant clauses of Section 2, Part VI of the NBC.





3.5.3 HIGHWAY LIGHTING SYSTEM

3.5.3.1 The following codes shall be followed while designing the lighting system on the Project Highway for different locations such as urban areas, junctions, bridges, junction of slip roads with elevated roads, pedestrian crossing, toll plazas, base camps etc.

- i) IS: 1944 (Parts I and II) - 1970
- ii) IS: 1944 (Part V) - 1981; and
- iii) IS: 1944 (Part VI) - 1981).

The layout of the lighting system together with type of luminaries and level of illumination for different locations shall be determined in consultation with the Independent Consultant.

3.5.3.2 Overhead electric power and telecommunication lines erected within the Right of Way (ROW) by the Concessionaire shall be provided with adequate clearance so that safe use of road is not affected. Vertical and horizontal clearances shall conform to the IRC:32-1969.

3.5.4 TRAFFIC SAFETY MEASURES

3.5.4.1 Highway Patrolling

3.5.4.1.1 The location and number of patrol control room centers shall be finalised with Independent Consultant. Highway patrolling establishment should have three shifts of 8 hours each. It would consist of at least 3 persons including driver.

3.5.4.1.2 Control Centers (Main & Sub) for HTMS would have a crane mounted on truck, Diesel Jeep or Station Wagon, ambulance, Motorcycle and other equipments as per requirement. All the vehicles shall conform to the Motor Vehicles Act 1988. The ambulance unit shall have 1 (one) nurse, 1 (one) compounder, 1 (one) photographer and 1 (one) driver.

3.5.4.2 Pedestrian Guard Rails and Safety Barriers

3.5.4.2.1 The Pedestrian Guard Rails along the Highway shall be constructed as per DPR.

3.5.4.2.2 The Safety Barrier shall conform to MORT&H Specifications Clause 810 and shall be constructed as mentioned in DPR. In case not mentioned in DPR it shall be W-beam metal crash barrier.

3.5.5 TRAFFIC CONTROL

3.5.5.1 Traffic Signals

3.5.5.1.1 There shall be no traffic signals on National highway except at the locations of major intersections mentioned in Schedule B, where pedestrian Zebra crossing facilities are to be provided in urban areas. Where provided as pedestrian facility and on the side road crossing/meeting the Project Highway, it will be governed by clause 3.5.7.1.2 herein under.

3.5.5.1.2 The signal foundation shall be constructed as per clause 13 of IRC: 93 - 1985. Constructional requirements shall conform to IS: 7537- 1974, unless otherwise stated in IRC: 93-1985. Posts shall be painted and protected as per clause 3.7 of IS: 7537-1974.



Traffic signals shall have a complete electronic mechanism with an auxiliary manual controller.

3.5.5.2 Highway Signs

3.5.5.2.1 The road signs erected on the Project Highway shall conform to IRC 67-2001, Code of Practice for Road signs. Road signs such as Chevron, overhead etc. not covered by IRC 67-2001 will be as per BIS/British Standard/AASHTO/ASTM in that order after approval by the Independent Consultant.

3.5.5.2.2 All road signs shall be with retro-reflective sheeting of high intensity grade with encapsulated lens fixed over aluminium substrata as per Clause 801 of MORT&H Specifications.

3.5.5.2.3 The overhead signs shall be placed on a structurally sound gantry or cantilever structure made of circular pipes or steel sections approved by the Independent Consultant. The said sign shall be with high intensity retro reflective sheeting. The height, lateral clearance and installation shall be as per the MORT&H Specifications.

3.5.5.3 Pavement Markings

3.5.5.3.1 Pavement markings shall be as per IRC: 35-1997. These markings shall be applied to road centre lines, edge line, continuity line, stop lines, give way lines, diagonal/chevron markings, zebra crossing and at parking areas by means of an approved self-propelled machine which has a satisfactory cut-off value capable of applying broken lines automatically.

3.5.5.3.2 Road markings shall be of hot applied thermoplastic paints with glass reflectorising beads as per relevant clauses of Section 803 of MORT&H Specifications.

3.5.5.3.3 Titanium of rutile grade, minimum 40% glass beads, bead size of 1-1.5 mm, glass beads with minimum 95% true spheres with minimum reflectivity of 100 mcd/lx/sqm for a period of 12 months and minimum wet reflectivity after rain of 25 mcd/lx/sqm on centre line and pedestrian crossing shall be used. It should also have at least a life warranty of 24 months.

3.5.5.3.4 Instruments such as reflectometers shall be available in mobile battery operated units to check the reflectivity in the site.

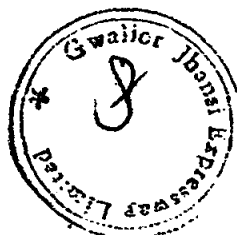
3.5.6 PROJECT VEHICLES AND EQUIPMENT FOR OPERATION

3.5.6.1 All the vehicles used for activities pertaining to the highway operation shall conform to the Motor Vehicles Act 1988.

3.5.6.2 All the gadgets, equipment or any systems used for operation and maintenance of the highway shall be of standard make and shall conform to international standards

3.5.7 ROAD FURNITURE AND FACILITIES ON ROADSIDE

3.5.7.1 Road furniture on the Project Highway provided as per IRC Codes shall meet requirements of MORT&H Specifications. Where any item is not covered by it, then its



specification shall conform to BIS/British standard/AASHTO/ASTM in that order after approval by the Independent Consultant.

3.5.7.2 Noise barriers and other measures as suggested in EMP for the Project in DPR shall be strictly adhered to.

3.5.7.3 Low height easily mountable kerb shall be placed at locations of pedestrian crossings and other facilities to accommodate physically handicapped people. These locations should be designed suitably to avoid usage of vehicular traffic, particularly two-wheelers. Design of such facilities shall be finalised in consultation with Independent Consultant.

3.5.7.2 Roadside facilities such as Litter bins, Public Toilets and Drinking Water Kiosks where provided shall follow the Specifications spelt out hereinunder.

3.5.7.3 **Litter Bins:** The litter-bin shall be simple in shape and its colour and finish shall be conspicuous. Litter-bin shall be post mounted and/or swivel type. The mounting and fixing components shall be robust. The bin shall have drainage holes for periodic flushing. It shall also be theft, vandal and fire proof. It shall be resistant to wear and tear and the material and design shall be such as to require minimal maintenance.

3.5.7.4 **Public Toilets:** The public toilet shall be simple in design and the area around the toilet block shall be paved with cement concrete tiles or any other suitable material, and have cross slope so as to ensure speedy disposal of water. The structure shall conform to relevant sections of clause 3.5.2 of this Schedule.

3.5.7.5 **Drinking Water Kiosk:** The design of the water kiosk shall be such as to require minimal maintenance. Area around the kiosk shall be paved with cement concrete tiles or any other suitable material, and have cross slope so as to ensure speedy disposal of water. The water supplied shall conform to IS: 10500:1991 for quality and purity of potable water.

3.5.8 PICKUP BUS STOPS

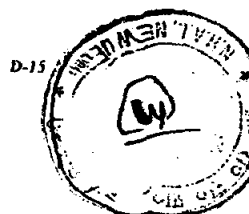
3.5.8.1 The bus stop layout shall provide safe entry and exit of buses from Project Highway and movement of passengers. The shelter structure shall be structurally safe and functional so as to protect the waiting passengers adequately from sun, rain and wind. The seating and plinth of the structure shall be of coursed stone masonry. The bus bay area shall be provided with an effective drainage system.

3.5.8.2 The bus bays shall be paved with flexible pavement as that of new carriageway.

3.5.9 TRUCK PARKING FACILITIES

3.5.9.1 The layout of the truck lay-byes and facilities thereon shall be as mentioned in Schedule C to cater to the estimated parking demand and shall be got approved by the Independent Consultant. Parking shall be parallel to the road and the lay-bye shall be setback from the edge of the carriageway. The lay-byes shall be landscaped with low-density plantation to provide shade.

3.5.9.2 The parking spaces shall have flexible pavement as that of main carriageway. Parking bays/lots shall have proper cross slope and drainage. They shall be marked with





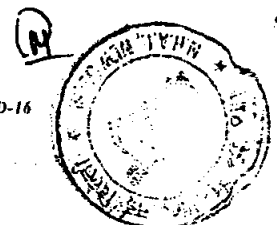
paint as per IRC: 35-1997 to demarcate parking and circulation spaces. Lighting shall be provided as per IS: 1944 (Part 1 and 11) - 1970.

3.5.9.3 The parking lay-bye shall have drinking water kiosk, independent of other existing facilities and of required capacity. The kiosk shall be well sheltered from the sun and rain and area around it shall be suitably and adequately paved with proper drainage to ensure disposal of spill water.

3.5.9.4 The parking lay-bye shall have toilet facility to suit the requirement. It shall have covered soak pits and shall be away from the drinking water facility.

4. Safety During Project Execution, Operation and Maintenance

4.1 The Concessionaire shall ensure complete safety of construction staff during the construction work of the Project Highway. It shall also ensure minimum interference to the flow of traffic during widening of the existing 2-lane pavement. The additional lan



**Annexure-1****LIST OF IRC CODES FOR THE DESIGN OF BRIDGE STRUCTURES AND CULVERTS**

IRC: 5-1998 Standard Specifications & Code of Practice for Road Bridges. Section 1 - General Features of Design (Seventh Revision)
 IRC: 6-2000 Standard Specifications & Code of Practice for Road Bridges. Section 11 - Loads and Stresses (Fourth Revision)
 IRC: 7-1971 Recommended Practice for Numbering Bridges and Culverts (First Revision)
 IRC: 18-2000 Design Criteria for Pre-stressed Concrete Road Bridges (Post-Tensioned Concrete) (Third Revision)
 IRC: 21-2000 Standard Specifications and Code of Practice for Road Bridges. Section III Cement Concrete (Plain and Reinforced) (Third Revision)
 IRC: 22-1986 Standard Specifications and Code of Practice for Road Bridges. Section VI Composite Construction (First Revision)
 IRC: 24-2001 Standard Specifications and Code of Practice for Road Bridges. Section V Steel Road Bridges. (Second Revision)
 IRC: 45-1972 Recommendations for Estimating the Resistance of Soil Below the Maximum Scour Level in the Design of Well Foundations of Bridges.
 IRC: 54-1974 Lateral and Vertical Clearances at Underpasses for Vehicular Traffic.
 IRC: 73-1980 Geometric Design Standards for Rural (Non-Urban) Highways
 IRC: 78-2000 Standard Specifications and Code of Practice for Road Bridges. Section VII Foundations & Substructure (Second Revision)
 IRC: 83-1999 Standard Specifications and Code of Practice for Road Bridges. Section IX Bearings, Part I : Metallic Bearings (First Revision)
 IRC: 83-1987 Standard Specifications and Code of Practice for Road Bridges. (Part-II) Section IX-Bearings, Part II: Elastomeric Bearings
 IRC: 89-1997 Guidelines for Design & Construction of River Training & Control Works for Road Bridges. (First revision)
 IRC: SP:13-1973 Guidelines for the Design of Small Bridges and Culverts
 IRC: SP:18-1978 Manual for Highway Bridge Maintenance Inspection
 IRC: SP:33-1989 Guidelines on Supplemental Measures for Design, Detailing & Durability of Important Bridge Structures.
 IRC: SP:35-1990 Guideline for Inspection and Maintenance of Bridges
 IRC: SP:40-1993 Guidelines on Techniques for Strengthening and Rehabilitation of Bridges

LIST OF IRC CODES/STANDARDS/ACTS FOR ROAD WORKS

IRC: 2-1968 Route Marker signs for National Highways (First Revision)
 IRC: 8-1980 Type Designs for Highway Kilometer Stone (Second Revision)
 IRC: 12-1983 Recommended Practice for Location and layout of Roadside Motor Fuel Filling and Motor Fuel Filling-cum Service Stations (Second Revision)
 IRC: 15-2002 Standard Specification and Code of Practice for Construction of Concrete Roads (Third Revision)
 IRC: 16-1989 Specification for Printing of Base Course with Bituminous Primers (First Revision)
 IRC: 21-2000 Standard Specifications and Code of Practice for Road, Bridges. Section III- Cement Concrete (plain and Reinforced) (Third Division)
 IRC: 25-1967 Type Designs for Boundary Stones
 IRC: 26-1967 Type design for 200-meter stones
 IRC: 30-1968 Standard Letters and Numbers of Different Heights for Use on



**Highway signs**

IRC: 32-1969 Standards for Vertical and Horizontal Clearances of Overhead Electric Power and Telecommunication Lines as Related to Roads

IRC: 35-1997 Code of Practice for Road Markings

IRC: 36-1970 Recommended Practice for the Construction of Earth Embankment for Road Works

IRC: 37-2001 Guidelines for the Design of Flexible Pavement (Second Revision)

IRC: 38-1988 Guidelines for Design of Horizontal Curves for Highways and Design Tables (First Revision)

IRC: 56-1974 Recommended Practice for Treatment of Embankment Slopes for Erosion Control

IRC: 58-2002 Guidelines for the Design of Plain Jointed Rigid Pavements for Highways.

IRC: 62-1976 Guidelines for Control of Access on Highways

IRC: 64-1990 Guidelines for Capacity of Roads in Rural Areas (First Revision)

IRC: 66-1976 Recommended Practice for Sight Distance on Rural Highways

IRC: 67-2001 Code of Practice for Road Signs (First Revision)

IRC: 69-1977 Space Standards for Road in Urban Areas

IRC: 73-1980 Geometric Design Standards for Rural (Non Urban) Highways

IRC: 75-1979 Guidelines for the Design of High Embankments

IRC: 79-1981 Recommended practice for Road Delineators

IRC: 80-1981 Type Designs for Pick-up Bus Stops on Rural (i.e. Non-Urban)

Highways

IRC: 81-1981 Tentative Guidelines for Strengthening of Flexible Road Pavements Using Benkelman Beam Deflection Techniques

IRC: 84-1983 Code of Practice for curing of Cement Concrete Pavements

IRC: 86-1983 Geometric Design Standards for Urban Roads in Plains

IRC: 92-1985 Guidelines for the Design of Interchanges in Urban Areas

IRC: 93-1985 Guidelines on Design and Installation of Road Traffic Signals

IRC: 98-1997 Guidelines on Accommodation of Under Ground Utility Services Along and Across Roads in urban Areas (First Revision)

IRC: 103-1988 Guidelines for Pedestrian Facilities

IRC: 106-1990 Guidelines for Capacity of Urban Roads in Plain Areas

IRC: 108-1996 Guidelines for Traffic Prediction on Rural Highways

IRC:SP: 11-1988 Hand Book of Quality Control for Construction of Roads and Runways (Second Revision)

IRC:SP:15-1996 Ribbon Development along Highways and its Prevention

IRC:SP:21-1979 Manual on Landscaping of Roads

IRC:SP:23-1983 Vertical curves for Highways

IRC:SP:31-1992 New Traffic signs

IRC:SP:41-1994 Guidelines on Design of At-Grade Intersections in Rural and Urban areas

IRC:SP:42-1994 Guidelines on Road Drainage

IRC:SP:44-1994 Highway Safety Code

IRC:SP:50-999 Guidelines on Urban Drainage

IRC:SP:53-2002 Guidelines on the use of Polymer and Rubber Modified Bitumen in Road Construction

IRC:SP:58-2001 Guidelines for the use of Fly Ash in Road Embankment

IRC:SP:59-2002 Guidelines for the use of Geotextiles in Road Embankments and Associated Works.

IRC:SP:63-2004 Guidelines for the use of Interlocking Concrete Block Pavement.





Ministry of Road Transport and Highway Publications

MORT&H, Manual for maintenance of roads, 1983
MORT&H, Specifications for Road and Bridge Works, 2001 (Fourth Revision)
MORT&H, Addendum to Technical Circulars and Directives on National Highways and Centrally
Sponsored Road and Bridge Works Projects (Jan 1995 to Dec 1997)
MORT&H, Type Designs for Intersections on National Highways, 1992
MORT&H, Addendum to Ministry's Technical Circulars and Directives on National Highways and Centrally Sponsored Road and Bridge Projects (August 1988 to December 1992), 1993
MORT&H, Addendum to Ministry's Technical Circulars and Directives on National Highways and Centrally Sponsored Road and Bridge Projects (Jan. 1993 to Dec. 1994) 1996

IS Publications

IS:7537-1974 Road traffic signals
IS:10500-1991 Drinking Water
IS: 1944(Parts I&II) 1970 Code of Practice for lighting of Public Thoroughfare: Parts I and 2 for main and secondary roads (Group A and B) (first revision) (Amendments No. 1 and 2) Parts 1 and 2 in one volume) (Amendments 2)
IS:1944 (Parts V) 1981 Code of Practice for Lighting of Public Thoroughfares: Parts 5 Lighting for Grade separated junctions, Bridges and Elevated roads (Group D)
IS: 1944 (Parts VI) 1981 Code of Practice for lighting of Public Thoroughfare: Part 6 Lighting for Towns and city centres and areas civic importance (Group E)
IS: 10748-1995 Hot rolled steel for welded tubes and pipes (First Revision)

NBC National Building Code

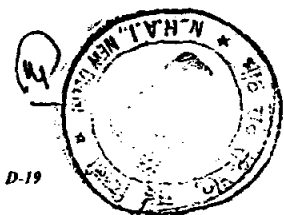
Part III, NBC: Development Control rules and general building requirements
Part VI, NBC: Structural Design
Part VIII, NBC: Building Services
Part IX, NBC: Plumbing Services
Part IV, NBC: Fire Protection

British Standards

BS 873 part IV (1987) Road traffic signs and internally illuminated bollards. Specification for road studs
BS EN 1463-1: 1998 Road traffic signs and internally illuminated bollards. Specification for road studs
BS EN 1436:1998 Road marking materials. Road marking performance for road users.

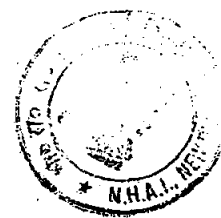


RFP BOT (Annulity) NS I/BOT/MP-UP



900243

SCHEDULE E
Applicable Permits



SCHEDULE E

APPLICABLE PERMITS

(to be obtained before/ on financial closure)

1. Ministry of Finance / RBI

- i) Approval for foreign investment and foreign loans, if required
- ii) Approval for import of equipment and machinery for construction and operation, if required
- iii) Exemption of Excise duty on construction material, if required.

2. Department of Telecommunication

- i) Permission / clearance for setting up of wireless system, if required
- ii) Clearance / permission for the use of optical fibre cables of DOT, if required

3. State Government Permits

Quarrying Permits:

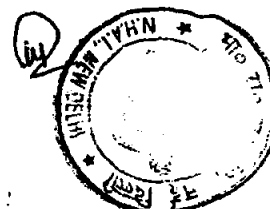
- Permits for extraction of boulder from quarry from Additional District Magistrate (ADM) Mines
- Permit for installation of crusher from village Panchayat and State/Central Pollution Control Board
- License for explosives from the office of Explosive controller
- Explosive license for storing diesel

Electricity:

- Permission required from State Electricity Board (SEB) for installation of Diesel Generator (DG)
- Permission for electrical connection, if power source is available

Water:

- If water has to be taken from river/ reservoir, permission to be obtained from State Irrigation Department





Batching Plant:

- License from inspection of factories
- NOC consent from pollution department

Asphalt Plant:

- Clearance required from village panchayats & State/Central Pollution Control Board

Borrow Earth:

- Permission from irrigation department if land taken from irrigation land
- Permission required from village panchayat and ADM mines for Government & private land
- Permission from Local Municipalities and Development Authorities.

Cutting of trees:

- Permission from Forest Department.

Sewage Lines and Water Mains:

- Permission from Local Municipalities and Development Authorities.



SCHEDULE F
Performance Security

GWALIOR JHANSI EXPRESWAYS LIMITED

Ref. No. : DSCL/2K5/ MR/1901
Date : 3rd July, 2006

The General Manager (N-II)
National Highways Authority of India
G-5&6, Sector-10,
Dwarka, New Delhi-110 075

Sub: Design, Construction, Development, Finance, Operation and
Maintenance of Km 16.000 to Km 96.127 on National Highway no. 75
(NH-75) in the States of Uttar Pradesh and Madhya Pradesh - Signing
of Concession Agreement

Ref: NHA/PH-II/NHDP/BOT(ANNUITY)/GM (N-II)/NS-I/2006/117 dated 18-07-2006

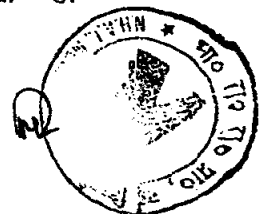
Dear Sir,

This has reference to your captioned letter, requiring certain information/documents. The desired information/documents are furnished here in below:

1. Performance Guarantee of 2% of Total Project Cost (TPC) i.e. Rs. 12.08 Crore as under
 - a. BG no.0007BG00128406 dated 3rd August'06 for an amount of Rs. 9.50 Crore (Rupees Nine Crore Fifty Lacs only) valid upto 2nd March'07.
 - b. BG no.0007BG00128506 dated 3rd August'06 for an amount of Rs. 2.58 Crore (Rupees Two Crore Fifty Eight Lacs) valid upto 2nd March'07
2. Performance Guarantee of 3% of Total Project Cost (TPC) i.e. Rs. 18.12 Crore vide BG no. 0007BG00128606 dated 3rd August issued from ICICI Bank valid upto 2nd August 2009
3. Certificate of Incorporation of SPV (From Registrar of Companies).
4. Certificate of Commencement of Business (From Registrar of Companies).
5. Memorandum of Association and Articles of Association of SPV



Regd.: Office : C-66, South Extension Part-II, New Delhi -1100 049
Phones: 2625-5835/ 6837/ 2625 2753 Fax: 2625 2386, 2625 2248



900246

GWALIOR JHANSI EXPRESWAYS LIMITED

6. Board Resolution of SPV regarding authorization of personnel for signing of Concession Agreement.
7. Memorandum of understanding between the Consortium partners (Submitted at the time of submission of bids).
8. Certificate from Consortium members authorizing the investment in SPV.
9. Register of Members of SPV.
10. Certified list of Directors of SPV.

We hope that you will find the above information satisfactory.

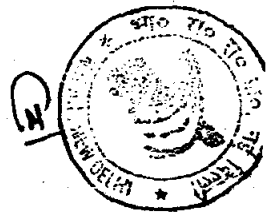
Thanking you,

For Gwalior-Jhansi Expresways Limited

M. S. Narula

M.S. Narula
Director

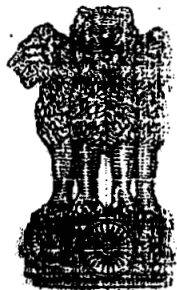
Encl: as above



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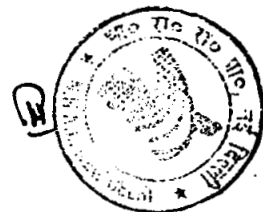
This Stamp Paper forms an integral part of Bank Guarantee No. 0007BG00128606, Dated
03.08.2006

For ICICI Bank Limited

Madhur Jain
Authorised Signatory
9A, Conn. Place, N. Delhi

MADHUR JAIN
Manager J-133

DHIRAJ TRIVEDI
Manager T-111



900248

Sr. No. 018646

BANK GUARANTEE

ICICI Bank Limited

(Incorporated in India)

ICICI Bank

00078400128606, dated 03.08.2006



SCHEDULE F

BANK GUARANTEE FOR PERFORMANCE SECURITY

[Bidders should NOT provide the Performance Security with their Proposals. Only the Sponsor will be required to provide the Performance Security which must be in this form or in a similar form acceptable to NHAI.]

[To be issued by a Scheduled Bank based in India and having a net worth of at least Indian Rupees One Thousand Crores only and having a branch in the proximity of the Project or at any place acceptable to NHAI]

From: ICICI Bank Limited,

A-9, Phelps Building, Connaught Place,
New-Delhi-110001

[Name of the Bank, and its Branch Address]

To: National Highway Authority of India,
G-5 & G-6, Sector-10, Dwarka,
New-Delhi-110045

A. NHAI vide Letter no. NHAI/PH-II/NHDP/BOT(ANNUITY)/GM(IN-II)(NS-I)/2006/1111 dated 31st May 2006 has issued Letter of Acceptance to DSC - Apollo Consortium for (i) Design, Construction, Development, Finance, Operation and Maintenance of Km 16.000 to Km 96.127 on National Highway no. 75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh on BOT (Annuity) basis (the "Project")

DSC-Apollo Consortium has promoted and incorporated a Special Purpose Vehicle in the form of a limited liability company Gwalior Jhansi Expressways Limited (the "Concessionaire") having its registered office at C-66, South Extension, Part-II, New-Delhi-110049, to enter into a Concession Agreement for undertaking, inter alia, the Project and to perform and discharge all its obligations thereunder.

B. In order to perform and discharge all its obligations concerning the "Project" the Concessionaire is required to give National Highway: Authority of India (NHAI) a guarantee by a recognized bank based in India in the sum of Rs. 18.12 Crores Only (Indian Rupees Eighteen Crores Twelve Lacs Only) as security for compliance by the concessionaire with its obligations under the Concession Agreement during the Construction period.



For ICICI Bank Limited

Madhur Jain
Authorized Signatory

9A, Conn. Place, N. Delhi

MADHUR JAIN

Manager J-133

DHIRAJ TRIVEDI

Manager T-111

000249

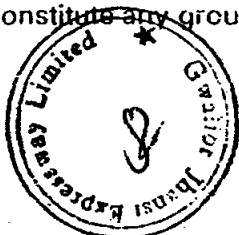
0001340012B606, dated 03.02.00



C. At the request of the successful bidder and/ or the Concessionaire the Guarantor has agreed to give NHAI the said guarantee on the terms set out herein.

GUARANTEE

1. We, ICICI Bank Limited, A-9, Phelps Building, Connaught Place, New-Delhi-110001 (Name of Bank) (the "Guarantor") with its registered office at Landmark, Race Course Circle, Baroda-390007 (Address of Head Office), unconditionally guarantee to pay NHAI upon first written demand and without any deduction any sum claimed by NHAI up to a maximum of Rupees 18.12 Crores Only (Indian Rupees Eighteen Crores Twelve Lacs Only) (the "Guaranteed Sum") subject to the conditions set out below.
2. The Guarantor unconditionally and irrevocably promises to pay on demand the Guaranteed Sum, without protest or demur whatsoever upon the receipt of a written demand from NHAI, which shall be final and conclusive as against the Guarantor requiring the Guarantor to make the payment to NHAI.
3. The Guarantor waives any requirement that NHAI demand any debt or payment from the Concessionaire before presenting it with a demand under this Guarantee.
4. NHAI shall notify the Guarantor of its demand for payment of the Guaranteed Sum without any deduction of whatsoever nature and without reference to any claim or counter claim or set off, in accordance with the Concession Agreement. Such notification by NHAI shall be conclusive and binding on the Guarantor.
5. Upon encashment and appropriation of the whole or any portion of the Guaranteed Sum by NHAI in accordance with the Concession Agreement, the Guarantor shall be obliged to replenish the existing Guarantee or provide fresh guarantee of the Guaranteed Sum and the Concessionaire is deemed to have made the request for such fresh guarantee upon the execution and furnishing of this Guarantee in the first instance.
6. No underlying dispute as between NHAI and the Concessionaire nor any pending application for interim relief or arbitration proceedings or other legal proceedings shall constitute any ground for prevention, delay or obstruction for making payment to NHAI by the Guarantor and the existence of any disputes or differences or claims in arbitration or otherwise shall not constitute any ground for nonpayment on this Guarantee.

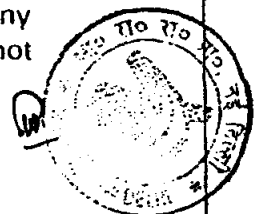


For ICICI Bank Limited

Madhur Jain

MADHUR JAIN
Manager J-113

Authorised Signatory
9A, Conn. Place, N. Delhi



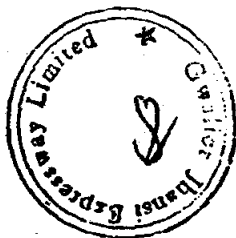
300250

DHIRAJ TRIVEDI
Manager T-11

00018600128603 - Dated 03.08.2009



- 77 7. This guarantee is valid and effective from its date. This guarantee and the
78 Guarantor's obligations under it will terminate on the Commercial Operations
79 Date of the Project as advised to the Guarantor in writing by NHAI. However
80 the Guarantee shall be released earlier by NHAI to the Concessionaire, upon
81 contribution of the Equity (excluding) Equity Support, if any by the
82 Shareholders of the Concessionaire to the extent of 100% and upon the
83 Concessionaire having expended on the Project and paid out an aggregate
84 sum of not less than 20% of the Total Project cost as certified by the Statutory
85 Auditors of the Concessionaire but provided the Concessionaire is not in
86 breach of this Agreement or the Concession Agreement.
- 87 8. The Guarantor agrees that its obligation to pay any demand made by NHAI
88 before the termination of this Guarantee will continue until the amount
89 demanded has been paid in full.
- 90 9. This Guarantee shall be valid and effective up to 03.08.2009 (Date of validity
91 of the Bank Guarantee for Performance Security) for enabling NHAI to lodge a
92 claim for payment under the Guarantee till the date of expiry of the term of
93 the Guarantee. The Guarantor shall be obligated to make payment upon the
94 Guarantee forthwith on demand, if the claim is lodged within the claim validity
95 period and the obligation to pay is subject to normal limitation for payment of
96 claims upon a guarantee. Time is of essence for payment and in the event of
97 failure to make payment, Guarantor shall be obligated to pay compound
98 interest at 2% above the prime lending rate of the Guarantor institution,
99 compounding quarterly in the event of the Guarantor's failure to make
100 payment upon the Guarantee for any reason whatsoever. Payment of interest
101 as provided is no excuse for delayed payment or nonpayment of the
102 Guaranteed Sum.
- 103 10. No change in the constitution of the Concessionaire or of the Guarantor shall
104 be a ground for release of the Guarantee and no variation in the concession
105 agreement made post selection of the bidder, or post making of the bid, shall
106 constitute a variation, which would, subject to the terms and conditions of this
107 agreement, discharge the Guarantor. The Guarantor shall notwithstanding
108 such change, be bound to make payment upon the Guarantee on demand.
- 109 11. The Guarantor agrees that no change, addition to or other modifications to
110 the terms of the Concession Agreement or to any documents which have or
111 may be made between NHAI and the Concessionaire will in any way release it
112 from any liability under this Guarantee and that it waives any requirement for
113 notice of any such change, addition or modification.
- 114



For ICICI Bank Limited

Madhur Jain
Authorised Signatory
9A, Conn. Place, N. Delhi

MADHUR JAIN
Manager J-133

DHIRAJ TRIVEDI
Manager - 111

900251

000754 00125604 . Dated 03.08.2006



12. The Guarantor agrees that it will not assign its obligations under this Guarantee without the prior written consent of NHAI. NHAI will not unreasonably withhold its consent if the proposed assignee is of at least equal financial standing to the Guarantor and the assignee assumes in writing the obligations of the Guarantor under this Guarantee at the same time or before the assignment.

13. This Guarantee binds the Guarantor, its successors and permitted assigns.

Not with standing anything contained herein above in the Guarantee;

1. Our aggregate liability under the bank Guarantee on account of multiple invocation or replenishment of the existing Guarantee or fresh guarantees shall not exceed Rs. 18.12 Crores Only (Indian Rupees Eighteen Crores Twelve Lacs Only)

2. Our liability under this bank Guarantee shall be valid up to 02.08.2009

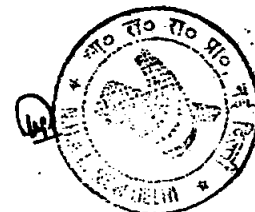
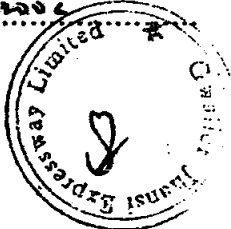
3. No rights shall be accrued unless we receive (if you serve upon us) a written claim or demand under this Guarantee on or before 02.08.2009 at ICICI Bank 9A, Connaught Place, New Delhi - 110001.

SEAL OF [THE BANK]
NAME OF [THE BANK]
SIGNATURE
NAME
TITLE
DATE

For ICICI Bank Limited

Authorized Signatory
9A, Connaught Place, N. Delhi

MADHUR JAIN DHIRAJ TRIVEDI
Manager J-133 Manager T-111



000252



दिल्ली DELHI

B 373385

This Stamp Paper forms an integral part of Bank Guarantee No. 0007BG00128506, Dated 03.08.2006

For ICICI Bank Limited

[Signature]
Authorised Signatory
9A, Conn. Place, N. Delhi

MADHUR JAIN
Manager J - 133

DHIRAJ TRIVEDI
Manager T - 111



900253

Sr. No. 018644

BANK GUARANTEE

ICI Bank Limited

(Incorporated in India)

ICICI Bank

BG Number: 0007BG00128506

Issue Date: 3/8/2006

SCHEDULE F

BANK GUARANTEE FOR PERFORMANCE SECURITY

(To be issued by a scheduled Bank in India)

[Bidders should NOT provide the Performance Security with their Proposals. Only the Sponsor will be required to provide the Performance Security which must be in this form or in a similar form acceptable to NHAI.]

[To be issued by a Scheduled Bank based in India and having a net worth of at least Indian Rupees One Thousand Crores only and having a branch in the proximity of the Project or at any place acceptable to NHAI]

From: ICICI Bank Limited,

A-9, Phelps Building, Connaught Place,
New Delhi-110001

[Name of the Bank, and its Branch Address]

To: National Highway Authority of India,
G-5 & G-6, Sector-10, Dwarka,
New Delhi-110045

A. NHAI vide Letter No. NHAI/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)(NS-
I/2006/111 dated 31st May 2006 has issued Letter of Acceptance to DSC -
Apollo Consortium for (i) Design, Construction, Development, Finance,
Operation and Maintenance of Km 16.000 to Km 96.127 on National Highway
no. 75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh on BOT
(Annuity) basis (the "Project").

DSC-Apollo Consortium through its a Special Purpose Vehicle Gwalior Jhansi
Expresways Limited (the "Concessionaire"), will enter into a Concession
Agreement for undertaking, inter alia, the Project and will perform and
discharge all its obligations thereunder.

B. In order to perform and discharge all its obligations concerning the "Project"
the Concessionaire is required to give National Highways Authority of India
(NHAI) a guarantee by a recognized bank based in India in the sum of Rs. 2.58



For ICICI Bank Limited

[Signature]
Authorized Signatory
SA, Conn. Place, N. Delhi

1/1

MADHUR JAIN
Manager J-133

DHIRAJ TRIVEDI
Manager T-111

000254

BG Number: 0007BG00128506

Issue Date: 3/8/2006

Crores Only (Indian Rupees Two Crores Fifty Eight Lacs Only) as security for compliance by the concessionaire with its obligations under the Concession Agreement during the Construction period.

C. At the request of the successful bidder and/ or the Concessionaire the Guarantor has agreed to give NHAI the said guarantee on the terms set out herein.

GUARANTEE

1. We, ICICI Bank Ltd having our registered office at Landmark, Race Course Circle, Alkapuri, Baroda - 390007 and among others a branch office at 9A, Connaught Place, New Delhi - 110001 (the "Guarantor") with its registered office at Landmark, Race Course Circle, Baroda-390007 (Address of Head Office), unconditionally guarantee to pay NHAI upon first written demand and without any deduction any sum claimed by NHAI up to a maximum of Rupees 2.58 Crores Only (Indian Rupees Two Crores Fifty Eight Lacs Only) (the "Guaranteed Sum") subject to the conditions set out below.
2. The Guarantor unconditionally and irrevocably promises to pay on demand the Guaranteed Sum, without protest or demur whatsoever upon the receipt of a written demand from NHAI, which shall be final and conclusive as against the Guarantor requiring the Guarantor to make the payment to NHAI.
3. The Guarantor waives any requirement that NHAI demand any debt or payment from the Concessionaire before presenting it with a demand under this Guarantee.
4. NHAI shall notify the Guarantor of its demand for payment of the Guaranteed Sum without any deduction of whatsoever nature and without reference to any claim or counter claim or set off, in accordance with the Concession Agreement.
Such notification by NHAI shall be conclusive and binding on the Guarantor.
5. Upon encashment and appropriation of the whole or any portion of the Guaranteed Sum by NHAI in accordance with the Concession Agreement, the Guarantor shall be obliged to replenish the existing Guarantee or provide fresh guarantee of the Guaranteed Sum and the Concessionaire is deemed to have made the request for such fresh guarantee upon the execution and furnishing of this Guarantee in the first instance.



2/2

For ICICI Bank Limited

[Signature]
Authorised Signatory
9A Connaught Place, N. Delhi

MADHURJAN
Manager J-133

DHIRAJ TRIVEDI
Manager T-111

900255

BG Number: 0007BG00128506

Issue Date: 3/8/2006

6. No underlying dispute as between NHAI and the Concessionaire nor any pending application for interim relief or arbitration proceedings or other legal proceedings shall constitute any ground for prevention, delay or obstruction for making payment to NHAI by the Guarantor and the existence of any disputes or differences or claims in arbitration or otherwise shall not constitute any ground for nonpayment on this Guarantee.
7. This guarantee is valid and effective from its date. This guarantee and the Guarantor's obligations under it will terminate on the Commercial Operations Date of the Project as advised to the Guarantor in writing by NHAI. However the Guarantee shall be released earlier by NHAI to the Concessionaire, upon contribution of the Equity (excluding) Equity Support, if any by the Shareholders of the Concessionaire to the extent of 100% and upon the Concessionaire having expended on the Project and paid out an aggregate sum of not less than 20% of the Total Project cost as certified by the Statutory Auditors of the Concessionaire but provided the Concessionaire is not in breach of this Agreement or the Concession Agreement.
8. The Guarantor agrees that its obligation to pay any demand made by NHAI before the termination of this Guarantee will continue until the amount demanded has been paid in full.
9. This Guarantee shall be valid and effective up to 02.03.2007 (Date of validity of the Bank Guarantee for Performance Security) for enabling NHAI to lodge a claim for payment under the Guarantee till the date of expiry of the term of the Guarantee. The Guarantor shall be obligated to make payment upon the Guarantee forthwith on demand, if the claim is lodged within the claim validity period and the obligation to pay is subject to normal limitation for payment of claims upon a guarantee. Time is of essence for payment and in the event of failure to make payment, Guarantor shall be obligated to pay compound interest at 2% above the prime lending rate of the Guarantor institution, compounding quarterly in the event of the Guarantor's failure to make payment upon the Guarantee for any reason whatsoever. Payment of interest as provided is no excuse for delayed payment or nonpayment of the Guaranteed Sum.
10. No change in the constitution of the Concessionaire or of the Guarantor shall



3/3

For ICICI Bank Limited

[Signature]
Authorised Signatory
9A, Conn. Place, N. Delhi

MADHUR JAIN
Manager J-135

DHIRAJ TRIVEDI
Manager T-111

000256

BG Number: C007BG00128506

Issue Date: 3/8/2006

be a ground for release of the Guarantee and no variation in the concession agreement made post selection of the bidder, or post making of the bid, shall constitute a variation, which would, subject to the terms and conditions of this agreement, discharge the Guarantor. The Guarantor shall notwithstanding such change, be bound to make payment upon the Guarantee on demand.

11. The Guarantor agrees that no change, addition to or other modifications to the terms of the Concession Agreement or to any documents which have or may be made between NHAI and the Concessionaire will in any way release it from any liability under this Guarantee and that it waives any requirement for notice of any such change, addition or modification.

12. The Guarantor agrees that it will not assign its obligations under this Guarantee without the prior written consent of NHAI. NHAI will not unreasonably withhold its consent if the proposed assignee is of at least equal financial standing to the Guarantor and the assignee assumes in writing the obligations of the Guarantor under this Guarantee at the same time or before the assignment.

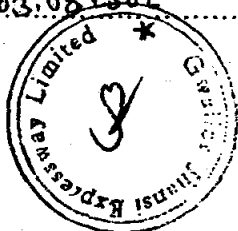
13. This Guarantee binds the Guarantor, its successors and permitted assigns. Not with standing anything contained herein above in the Guarantee;

1. Our aggregate liability under the bank Guarantee on account of multiple invocation or replenishment of the existing Guarantee or fresh guarantees shall not exceed Rs. 2.58 Crores Only (Indian Rupees Two Crores Fifty Eight Lacs Only)

2. Our liability under this bank Guarantee shall be valid up to 02.03.2007

3. No rights shall be accrued unless we receive (if you serve upon us) a written claim or demand under this Guarantee on or before 02.03.2007 at ICICI Bank 9A, Connaught Place, New Delhi - 110001.

SEAL OF [THE BANK] For ICICI Bank Limited
NAME OF [THE BANK] ICICI Bank Limited
SIGNATURE CIBD - First Floor
NAME 9-A, Connaught Place
TITLE New Delhi - 110001



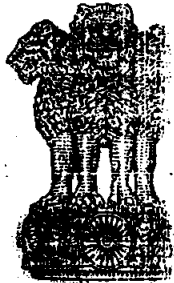
Authorised Signatory
9A, Conna. Place, N. Delhi
MADHUR JAIN
Manager J-133

DHIRAJ TRIVEDI
Manager T-111

भारतीय गैर

एक सौ रुपये

रु. 100



सत्यमेव जयते

भारत INDIA

INDIA NON JUDICIAL

100
HUNDRED RUPEES

दिल्ली DELHI

B 373386

This Stamp Paper forms an integral part of Bank Guarantee No. 0007BG00128406, Dated
03.08.2006

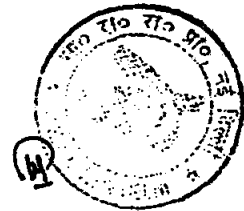


For ICICI Bank Limited

Madhur Jain
Authorized Signatory
9A, Conn. Place, N. Delhi

MADHUR JAIN
Manager J-133

DHIRAJ TRIVEDI
Manager T-111



900258

Sr. No. 318645

BANK GUARANTEE

ICICI Bank Limited

(Incorporated in India)

ICICI Bank

B.G. Number: 318645

Issue Date: 3/3/2006

SCHEDULE F

BANK GUARANTEE FOR PERFORMANCE SECURITY

(To be issued by a scheduled Bank in India) [Bidders should NOT provide the Performance Security with their Proposals. Only the Sponsor will be required to provide the Performance Security which must be in this form or in a similar form acceptable to NHAI.]

[To be issued by a Scheduled Bank based in India and having a net worth of at least Indian Rupees One Thousand Crores only and having a branch in the proximity of the Project or at any place acceptable to NHAI]

From: ICICI Bank Limited,

A-9, Phelps Building, Connaught Place,

New Delhi-110001

____ [Name of the Bank, and its Branch Address]

To: National Highway Authority of India,

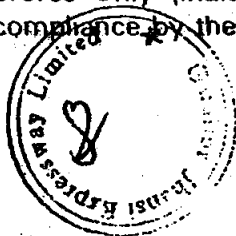
G-5 & G-6, Sector-10, Dwarka,

New-Delhi-110045A,

NHAI vide Letter no. NHAI/PH-II/NHDP/BOT (ANNUITY)/GM(N-II)(NS-I/2006/1111 dated 31st May 2006 has issued Letter of Acceptance to DSC - Apollo Consortium for (i) Design, Construction, Development, Finance, Operation and Maintenance of Km 16.000 to Km 96.127 on National Highway no. 75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh on BOT (Annuity) basis (the "Project").

DSC - Apollo Consortium through its a Special Purpose Vehicle Gwalior Jhansi Expressways Limited (the "Concessionaire"), will enter into a Concession Agreement for undertaking, inter alia, the Project and will perform and discharge all its obligations thereunder.

B. In order to perform and discharge all its obligations concerning the "Project" the Concessionaire is required to give National Highways Authority of India (NHAI) a guarantee by a recognized bank based in India in the sum of Rs. 9.50 Crores Only (Indian Rupees Nine Crores Fifty Lacs Only) as security for compliance by the concessionaire with its obligations under the Concession



For ICICI Bank Limited

Madhur Jain

1/1 **MADHUR JAIN**
Manager J-133

Dhiraj Trivedi
Authorized Signatory
Place, N. Delhi
DHIRAJ TRIVEDI
Manager T-111

30025

BG Number: 3/3/2006
Issued Date: 3/3/2006

Agreement during the Construction period.

C. At the request of the successful bidder and/or the Concessionaire the Guarantor has agreed to give NHAI the said guarantee on the terms set out herein.
GUARANTEE

1. We, ICICI Bank Ltd having our registered office at Landmark, Race Course Circle, Alkapuri, Baroda - 390007 and among others a branch office at 9A, Connaught Place, New Delhi - 110001 (the "Guarantor") with its registered office at Landmark, Race Course Circle, Baroda-390007 (Address of Head Office), unconditionally guarantee to pay NHAI upon first written demand and without any deduction any sum claimed by NHAI up to a maximum of Rupees 9.50 Crores Only (Indian Rupees Nine Crores Fifty Lacs Only) (the "Guaranteed Sum") subject to the conditions set out below.
2. The Guarantor unconditionally and irrevocably promises to pay on demand the Guaranteed Sum, without protest or demur whatsoever upon the receipt of a written demand from NHAI, which shall be final and conclusive as against the Guarantor requiring the Guarantor to make the payment to NHAI.
3. The Guarantor waives any requirement that NHAI demand any debt or payment from the Concessionaire before presenting it with a demand under this Guarantee.
4. NHAI shall notify the Guarantor of its demand for payment of the Guaranteed Sum without any deduction of whatsoever nature and without reference to any claim or counter claim or set off, in accordance with the Concession Agreement.

Such notification by NHAI shall be conclusive and binding on the Guarantor.

5. Upon encashment and appropriation of the whole or any portion of the Guaranteed Sum by NHAI in accordance with the Concession Agreement, the Guarantor shall be obliged to replenish the existing Guarantee or provide fresh guarantee of the Guaranteed Sum and the Concessionaire is deemed to have made the request for such fresh guarantee upon the execution and furnishing of this Guarantee in the first instance.
6. No underlying dispute as between NHAI and the Concessionaire nor any pending application for interim relief or arbitration proceedings or other legal

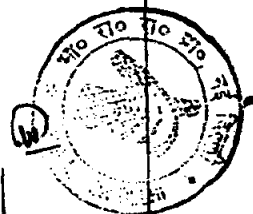
For ICICI Bank Limited

[Signature]
Authorised Signatory
9A, Conn. Place, N. Delhi

2/2

MADHUR JAIN
Manager J-133

DHIRAJ TRIVEDI
Manager T-111



300260

Bid Number: 11/2006/118406

Issue Date: 3/3/2006

proceedings shall constitute any ground for prevention, delay or obstruction for making payment to NHAI by the Guarantor and the existence of any disputes or differences or claims in arbitration or otherwise shall not constitute any ground for nonpayment on this Guarantee.

7. This guarantee is valid and effective from its date. This guarantee and the Guarantor's obligations under it will terminate on the Commercial Operations Date of the Project as advised to the Guarantor in writing by NHAI. However the Guarantee shall be released earlier by NHAI to the Concessionaire, upon contribution of the Equity (excluding) Equity Support, if any by the Shareholders of the Concessionaire to the extent of 100% and upon the Concessionaire having expended on the Project and paid out an aggregate sum of not less than 20% of the Total Project cost as certified by the Statutory Auditors of the Concessionaire but provided the Concessionaire is not in breach of this Agreement or the Concession Agreement.

8. The Guarantor agrees that its obligation to pay any demand made by NHAI before the termination of this Guarantee will continue until the amount demanded has been paid in full.

9. This Guarantee shall be valid and effective up to 02.03.2007. (Date of validity of the Bank Guarantee for Performance Security) for enabling NHAI to lodge a claim for payment under the Guarantee till the date of expiry of the term of the Guarantee. The Guarantor shall be obligated to make payment upon the Guarantee forthwith on demand, if the claim is lodged within the claim validity period and the obligation to pay is subject to normal limitation for payment of claims upon a guarantee. Time is of essence for payment and in the event of failure to make payment, Guarantor shall be obligated to pay compound interest at 2% above the prime lending rate of the Guarantor institution, compounding quarterly in the event of the Guarantor's failure to make payment upon the Guarantee for any reason whatsoever. Payment of interest as provided is no excuse for delayed payment or nonpayment of the Guaranteed Sum.

10. No change in the constitution of the Concessionaire or of the Guarantor shall be a ground for release of the Guarantee and no variation in the concession agreement made post selection of the bidder, or post making of the bid, shall constitute a variation, which would, subject to the terms and conditions of this



For ICICI Bank Limited

Madhur Jain

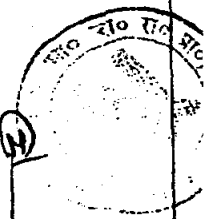
Authorised Signatory

9A, Conn. Place, N. Delhi

3/3

MADHUR JAIN
Manager J-133

DHIRAJ TRIVEDI
Manager T-111



000261

BG Number: BG/01/28406

Issue Date: 31/3/2006

- agreement, discharge the Guarantor. The Guarantor shall notwithstanding such change, be bound to make payment upon the Guarantee on demand.
11. The Guarantor agrees that no change, addition to or other modifications to the terms of the Concession Agreement or to any documents which have or may be made between NHAI and the Concessionaire will in any way release it from any liability under this Guarantee and that it waives any requirement for notice of any such change, addition or modification.
 12. The Guarantor agrees that it will not assign its obligations under this Guarantee without the prior written consent of NHAI. NHAI will not unreasonably withhold its consent if the proposed assignee is of at least equal financial standing to the Guarantor and the assignee assumes in writing the obligations of the Guarantor under this Guarantee at the same time or before the assignment.
 13. This Guarantee binds the Guarantor, its successors and permitted assigns.

Not with standing anything contained herein above in the Guarantee;

1. Our aggregate liability under the bank Guarantee on account of multiple invocation or replenishment of the existing Guarantee or fresh guarantees shall not exceed Rupees: 9.50 Crores Only (Indian Rupees Nine Crores Fifty Lacs Only) (the "Guaranteed Sum")
2. Our liability under this bank Guarantee shall be valid up to 02.03.2007
3. No rights shall be accrued unless we receive (if you serve upon us) a written claim or demand under this Guarantee on or before 02.03.2007 at ICICI Bank 9A, Connaught Place, New Delhi - 110001.

SEAL OF [THE BANK]

NAME OF [THE BANK] ICICI Bank Limited

SIGNATURE GIBD - First Floor

NAME 9A, Connaught Place

TITLE New Delhi - 110001

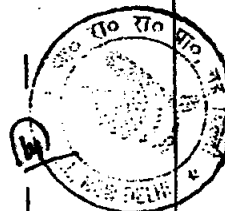
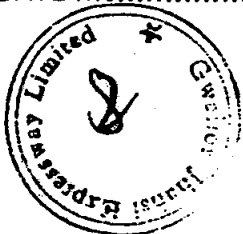
DATE 03.08.2006

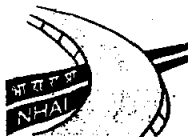
For ICICI Bank Limited

Authorized Signatory
9A, Conn. Place, N. Delhi

MADHUR JAIN
Manager J-133

DHIRAJ TRIVEDI
Manager T-111





भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Shipping, Road Transport and Highways)

जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली-110 075

G-5 & 6, Sector-10, Dwarka, New Delhi-110075

दूरभाष / Phone: 91-11-25074100/250742

फैक्स / Fax: 91-11-25093507 / 250935

एक्स. / Extn.: 2223 / 2318 / 2468 / 25

NHAI/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/MP-UP/NS-1/2006/999

Date: 22-09-06

To

M/s Gwalior Jhansi Expressways Limited

C-66, South Extension-II,

New Delhi-110 049.

Phone No.91-11-26262470

Fax No.91-11-26252386

Kind Attn.: Sh. H.S.Kohli, Authorized Signatory

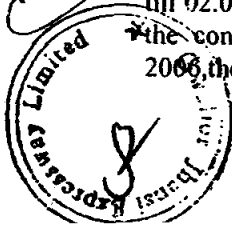
Sub:- Design, Construction, Development, Finance, Operation and Maintenance of the work of Rehabilitation and Upgrading to four lane from Km. 16.000 to Km. 96.127 on National Highway No. 75 (NH-75) in the States of Uttar Pradesh & Madhya Pradesh under North South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis – Package No. NS-1/BOT/MP-UP

Sir,

Please refer to your letter no. DSCL/2K5/MR/1901 dated 3rd August 2006 on the subject mentioned forwarding therewith a compliance list by the SPV for signing of the Concession Agreement. The documents have been examined and following observations are communicated.

- i) Recital "B" of the three bank guarantees submitted against performance security are to be modified as under
 - a) "In order to perform and discharge all its obligations concerning the "Project" the Concessionaire is required to give National Highways Authority of India (NHAI) a guarantee by a recognized Bank based in India in the sum of Rs 18.12 Crores. (Indian Rupees Eighteen crores Twelve lakhs only) as security for compliance by the Concessionaire with its obligations under the Concession Agreement upto and including Construction Period".
 - b) "In order to perform and discharge all its obligations concerning the "Project" the Concessionaire is required to give National Highways Authority of India (NHAI) a guarantee by a recognized Bank based in India in the sum of Rs 9.50 Crores. (Indian Rupees Nine crores Fifty lakhs only) as security for compliance by the Concessionaire with its obligations under the Concession Agreement upto and including Construction Period".
 - c) "In order to perform and discharge all its obligations concerning the "Project" the Concessionaire is required to give National Highways Authority of India (NHAI) a guarantee by a recognized Bank based in India in the sum of Rs 2.58 Crores. (Indian Rupees Two crores Fifty Eight lakhs only) as security for compliance by the Concessionaire with its obligations under the Concession Agreement upto and including Construction Period".

- ii) The validity of the bank guarantee no 0007BG00128406 for an amount of Rs 9.50 Crores, which is valid till 02.03.2007 may be extended so as to cover a period of 300 days from the expected date of signing of the concession agreement. Assuming the Concession Agreement would be signed by 31st October 2006, the BG needs to be extended to cover the period up to August 2007. Similarly the Bank Guarantee



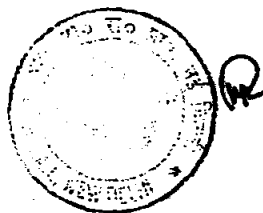
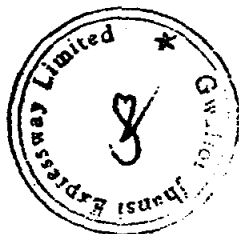
— Ctd —

000263

no. 0007BG00128506 for an amount of Rs 2.58 Crores, which is valid till 02.03.2007 needs to be extended to cover the period up to August 2007.

- iii) The validity of bank guarantee no. 0007BG00128606 for an amount of Rs.18.12 Crores which is valid till 02.08.2009 may be extended up to February 2010 so as to cover the period up to the Construction period.
- iv) The SPV i.e. M/s Gwalior Jhansi Express Limited had not been duly constituted in accordance to the requirement of the RFP Document. The shareholding of equity in the SPV should be as per the MoU submitted at the time of submission of bids i.e. 85 % of equity in the SPV should be with M/s Apollo Enterprises Limited and 15 % should be with DS Constructions Limited.
- v) The Board Resolution of the SPV authorizing the execution of the Concession Agreement has to be passed after both Consortium partners have subscribed to the equity of SPV in accordance with the representation contained in the MoU between the Consortium partners.
- vi) Item No. (i) of the extracts of the Board Resolution of M/s DS Constructions dated 31-05-2006 authorizing the subscription of 94 % equity in the SPV does not comply with the MoU between the Consortium partners. This needs to be rectified.
- vii) Draft Concession Agreement incorporating the amendments to the RFP issued by NHAI may be submitted.

Compliance to the above mentioned observations may be submitted at the earliest.



Yours faithfully,

R.K. Singh
(R.K. Singh)
Manager(N-II)

GWALIOR JHANSI EXPRESWAYS LIMITED

Ref. No. : DSCL/2K5/ MR/1922
Date : 4th November, 2006

Mr. R.K. Singh
Manager (N-II)
National Highway Authority of India
(Ministry of Shipping, Road Transport and Highways)
G-5 & 6, Sector-10, Dwarka
New Delhi-110075

Received today. May
6/11/2006

am (n-2) (on tour)
(4 M/W-I) at
6/11

Ref: Design, construct, develop, finance, operate, maintain, rehabilitate and upgrade the existing two lane road to four/six lane from km 16.00 (Gwalior) to km 96.127 (Jhansi) on National Highway-75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh under North-South Corridor (NHDP Phase-II) plan of National Highway Authority of India on Build, Operate and Transfer (BOT) (Annuity) basis.- **Concession Agreement**

Dear Sir,

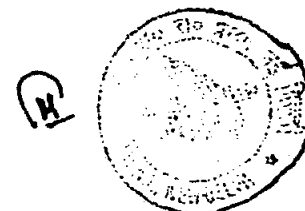
With reference to the subject project, please find enclosed herewith following for your reference and record:

1. Draft Concession Agreement duly incorporating the amendments to the RFP issued by NHAI.
2. Bank Guarantees submitted towards performance security duly extended and modified, detailed as under:

BG no.	Amount	valid upto
0007BG00128406	Rs. 9.50 Crore	1 st October 2007
0007BG00128506	Rs. 2.58 Crore	1 st October 2007
0007BG00128606	Rs. 18.12 Crore	1 st April 2010

For Gwalior Jhansi Expressways Limited

Director
Encl: As above



Registered office: C-66, South Extension Part-II, New Delhi-110049

Telephone: 011-26255835/26256837/26252753

Fax: 011-26252386, 26252248

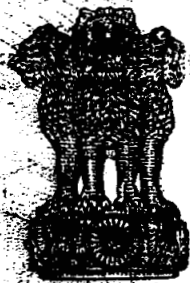
30 0265

भारतीय गैर न्यायिक

एक सौ रुपये

Rs. 100

रु. 100



सत्यमेव जयते

ONE
HUNDRED RUPEES

भारत INDIA

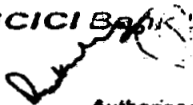
INDIA NON JUDICIAL

दिल्ली DELHI

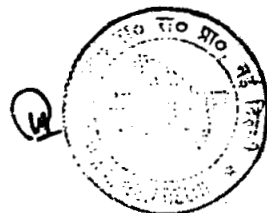
B 800137

This Stamp Paper forms an integral part of Amendment to the Bank Guarantee No.
0007BG00128406, Dated 04.11.2006

For ICICI Bank Limited


Authorised Signatory
9A, Conn. Place N. Delhi-1

RUMA BHATTACHARYA PRAVEEN SHARMA
Manager Asstt. Manager S-705



000266

Sr. No. 019848

BANK GUARANTEE

ICICI Bank Limited

(Incorporated in India)

ICICI Bank

BG Number: 0007BG00128406

Amendment Date: 4/11/2006

Amendment to Bank Guarantee No. 0007BG00128406 Dated 03.08.2006 for Rs. 9.50 Crores issued in favour of NHAI

To,
The National Highway Authority of India (NHAI)
G-5 & G-6, Sector-10,
Dwarka, New-Delhi-110045
Beneficiary's Name

As requested by our customer D S Constructions Ltd., we have amended the aforesaid bank guarantee as under:

1. Para B on page No. 1 & 2 of the Original Bank Guarantee
2. The validity of the Guarantee stands extended upto 01.10.2007
3. The claim period of the Guarantee stands extended upto 01.10.2007.

Para B on the Page No. 1 & 2, line 33 to line 35 of the Original Bank Guarantee should be read as follows:-

"In order to perform and discharge all its obligation concerning the "Projec:" the Concessionaire is required to give National Highways Authority of India (NHAI) a guarantee by a recognized Bank based in India in the sum of Rs.9.50 Crores (Indian Rupees Nine Crores Fifty Lacs Only) as security for compliance by the concessionaire with its obligations under the Concession Agreement upto and including Construction Period

All other terms and conditions remains unchanged. This amendment should be kept and read along with our Original Bank Guarantee No. 0007BG00128406 issued on 03.08.2006 and to be attached thereto.

Notwithstanding anything contained hereinabove :

- 1) Our liability under this bank guarantee shall not exceed Rs. 9.50 Crores (Rupees Nine Crores Fifty Lacs Only)

For ICICI Bank Limited

1/1

Authorised Signatory
9A, Conn. Place, N. Delhi-1

RUMA B. ATTACHARYA
Manager

PRAVEEN SHARMA
Asstt. Manager S-705

Regd. Office: Landmark, Race Course Circle, Vadodra-390 007. Phone : 0265-2340020 Fax: 0265-234192
E-mail: corporatcare@icicibank.com

BANK GUARANTEE

ICI Bank Limited

(Incorporated in India)

Sr. No. 019849

ICICI Bank

BG Number: C007BG00128406

Amendment Date: 4/11/2006

2) This bank guarantee shall be valid upto 01.10.2007

3) We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if we receive (if you serve upon us) a written claim or demand under this guarantee on or before 01.10.2007 at ICICI Bank Ltd. 9 A, Connaught Place, New Delhi 110001.

Date: 04.11.2006

Place: New Delhi

For ICICI Bank Limited

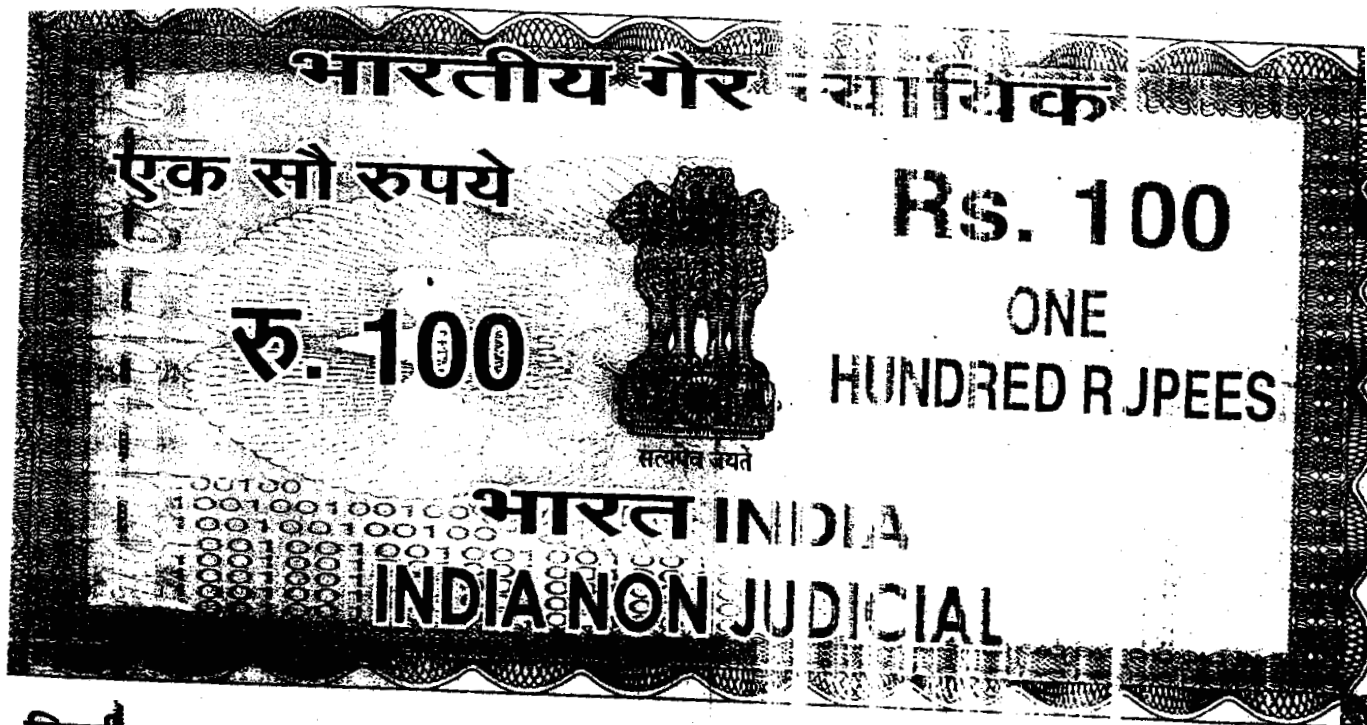
[Signature]
Authorised Signatory
9-A, Connaught Place, N. Delhi-1

RUNABHATTACHARYA
Manager B-192

PRAVEEN SHARMA
Asstt. Manager S-705



BENEFICIARY'S COPY



दिल्ली DELHI

B 800135

This Stamp Paper forms an integral part of Amendment to the Bank Guarantee No. 0007BG00128506, Dated 04.11.2006

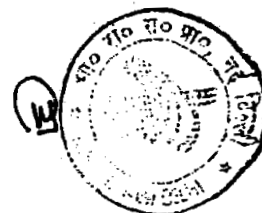
For ICICI Bank Limited

[Signature]
Authorised Signatory
9A, Conn. Place, N. Delhi-1



RUMA BHATTACHARYA
Manager

PRAVEEN SHARMA
Asstt. Manager



90 026

Sr. No. UT9846

IK GUARANTEE
Bank Limited
(Incorporated in India)

ICICI Bank

BG Number: 0007BG00128506
Amendment Date: 4/11/2006

Amendment to Bank Guarantee No. 0007BG00128506 Dated 03.08.2006 for Rs. 2.58 Crores issued in favour of NHAI

To,
The National Highway Authority of India (NHAI)
G-5 & G-6, Sector-10,
Dwarka, New Delhi-110045
Beneficiary's Name

As requested by our customer D S Constructions Ltd., we have amended the aforesaid bank guarantee as under:

1. Para B on page No. 1 & 2 of the Original Bank Guarantee
2. ~~The validity of the Guarantee stands extended upto 01.10.2007~~
3. The claim period of the Guarantee stands extended upto 01.10.2007.

Para B on the Page No. 1 & 2, line 32 to line 37 of the Original Bank Guarantee should be read as follows:-

"In order to perform and discharge all its obligation concerning the "Project" the Concessionaire is required to give National Highways Authority of India (NHAI) a guarantee by a recognized Bank based in India in the sum of Rs.2.58 Crores (Indian Rupees Two Crores Fifty Eight Lacs Only) as security for compliance by the concessionaire with its obligations under the Concession Agreement upto and including Construction Period."

All other terms and conditions remains unchanged. This amendment should be kept and read along with our Original Bank Guarantee No. 0007BG00128506 issued on 03.08.2006 and to be attached thereto.

For ICICI Bank Limited

Notwithstanding anything contained hereinabove :

Authorised Signatory
24, Conn. Place, N. Delhi-1
RUVABHARATI
Manager
PRAVEEN SHARMA
Asstt. Manager - S-705

Regd. Office: Landmark, Race Course Circle, Vadodra-390 007. Phone : 0265-2340020 Fax: 0265-2341661.
E-mail: corporatecare@icicibank.com

Office: "Landmark", Race Course Circle, Vadodra-390 007. Phone : 0265-2340020 Fax: 0265-2341661
: corporatecare@icicibank.com SWIFT : ICIC IN BB

300270

Dr. No. 019847

BANK GUARANTEE

ICICI Bank Limited

(Incorporated in India)

ICICI Bank

BG Number: 0007BG001:8506

Amendment Date: 4/11/2006

- 38 1) Our liability under this bank guarantee shall not exceed Rs. 2.58 Crores (Rupees
39 Two Crores Fifty Eight Lacs Only)
40 2) This bank guarantee shall be valid upto 01.10.2007
41 3) We shall be liable to pay guaranteed amount under this bank guarantee or part
42 thereof only if we receive (if you serve upon us) a written claim or demand under this
43 guarantee on or before 01.10.2007 at ICICI Bank Ltd. 9 A, Connaught Place, New
44 Delhi 110001.

45

46

47 Date: 04.11.2006

48 Place: New Delhi

For ICICI Bank Limited

Authorised Signatory
9A, Connaught Place, N. Delhi-1

RUMA B HATTACHARYA PRATAP SHARMA
Manager B-102 Asstt. Manager S-705



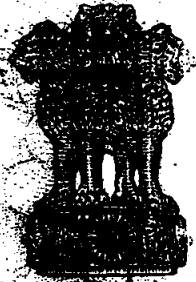
BENEFICIARY

भारतीय गैर न्यायिक

एक सौ रुपये

Rs. 100

रु. 100



सत्यमेव जयते

ONE
HUNDRED RUPEES

भारत INDIA
INDIAN NON JUDICIAL

DELHI

B 800145

This Stamp Paper forms an integral part of Amendment to the Bank Guarantee No.
0007BG00128606, Dated 04.11.2006



For ICICI Bank Limited

[Signature]
Authorised Signatory
9A, Conn. Place, N. Delhi-1

RUMA BHATTACHARJIA
Manager

PRAVEEN SHARMA
Asstt. Manager S-105



900272

Sl. No. 019850

BANK GUARANTEE

ICICI Bank Limited

(Incorporated in India)

ICICI Bank

BG Number: 0007BG00128606
Amendment Date: 4/11/2006

Amendment to Bank Guarantee No. 0007BG00128606 Dated 03.08.2006 for Rs. 18.12 Crores issued in favour of NHAI

To,
The National Highway Authority of India (NHAI)
G-5 & G-6, Sector-10,
Dwarka, New-Delhi-110045

~~Beneficiary's Name~~

As requested by our customer D S Constructions Ltd., we have amended the aforesaid bank guarantee as under:

1. Para B on page No. 1 of the Original Bank Guarantee
2. The validity of the Guarantee stands extended upto 01.04.2010
3. The claim period of the Guarantee stands extended upto 01.04.2010.

Para B on the Page No. 1 i.e. line 33 to line 38 of the Original Bank Guarantee should be read as follows:-

"In order to perform and discharge all its obligation concerning the "Project" the Concessionaire is required to give National Highways Authority of India (NHAI) a guarantee by a recognized Bank based in India in the sum of Rs.18.12 Crores (Indian Rupees Eighteen Crores Twelve Lacs only) as security for compliance by the concessionaire with its obligations under the Concession Agreement upto and including Construction Period.
All other terms and conditions remains unchanged. This amendment should be kept and read along with our Original Bank Guarantee No. 0007BG00128606 issued on 03.08.2006 and to be attached thereto.

Notwithstanding anything contained hereinabove :

- 1) Our liability under this bank guarantee shall not exceed Rs.18.12 Crores (Rupees Eighteen Crores Twelve Lacs Only)
- 2) This bank guarantee shall be valid upto 01.04.2010.
- 3) We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if we receive (if you serve upon us) a written claim or demand under this

For ICICI Bank Limited

Authorised Signatory
9A, Conn. Place, N. Delhi-1

Regd. Office: Landmark, Race Course Circle, Vadodara-390 007. Phone : 0265-2340020 Fax: 0265-2341661.
E-mail: corporatecare@icicibank.com

RUWA BHATTACHARYA
Manager

PRAVEEN SHARMA
Asstt. Manager S-705

Sr. No. 019851

BANK GUARANTEE
ICI Bank Limited
(Incorporated in India)

ICI Bank

BG Number: 0007BG00128-06
Amendment Date: 4/11/2006

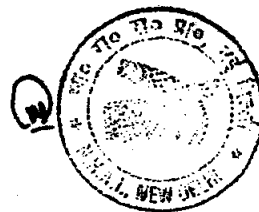
guarantee on or before 01.04.2010 at ICICI Bank Ltd. 9 A, Connaught Place, New
Delhi 110001.

Date: 04.11.2006
Place: New Delhi

For ICICI Bank Limited

RUMA BHATTACHARYA
Manager B-102

PRAVEEN SHARMA
Asstt. Manager S-705



BENEFICIARY'S COPY

2/2

Regd. Office: Landmark, Race Course Circle, Vadodra-390 007. Phone : 0265-2340020 Fax 0265-2341661.
E-mail: corporatecare@icicibank.com

d. Office: "Landmark", Race Course Circle, Vadodra-390 007. Phone : 0235-2340020 Fax 0265-2341661
ail: corporatecare@icicibank.com SWIFT : ICIC IN BB

300274



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)
National Highways Authority of India

(Ministry of Shipping, Road Transport and Highways)

जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली-110 075

G-5 & 6, Sector-10, Dwarka, New Delhi-110075

दूरभाष / P. one : 91-11-25074100/250742

फैक्स / Fa : 91-11-25093507 / 250935

एक्स. / Ex n. : 2223 / 2318 / 2468 / 25

NHA/PH-II/NHDP/BOT(Annuity)/GM(N-II)/MP-UP/NS-I/2006/ 1062

06.11.2006

To,

The General Manager

ICICI Bank Limited

A-9, Phelps Building

Connaught Place

New Delhi : 110001.

Fax No. 011-27127381

Kind Attn : Mr. Madhur Jain, Manager / Ms. Ruma Bhattacharya, Manager

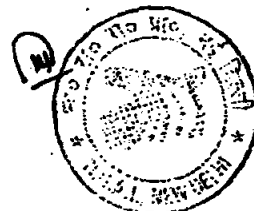
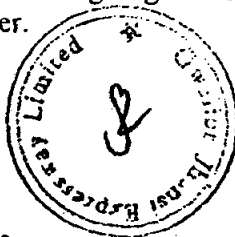
Sub : Design, Construction, Development, Finance, Operation and Maintenance of Km. 16.000 to Km. 96 on National Highway No. 75 in the States of Uttar Pradesh and Madhya Pradesh under North-South Con (NHDP Phase-II) on BOT (Annuity) Basis, Package No. NS-I/BOT/MP-UP : Reg. Confirmation of E Guarantee and their amendments from the Issuing Branch.

Sir,

Please refer the following Bank Guarantees and their amendments as mentioned below issued by branch towards performance security in favour of National Highways Authority of India, New Delhi for work mentioned above.

S.NO.	Name of Bank	B.G.No.	B.G.Date	Amount (Rs in Crores)	Date of Amendment	Vali
1	ICICI Bank Limited A-9, Phelps Building Connaught Place New Delhi : 110001	0007BG00128406	03/08/2006	9.50	04/11/2006	01/10
2	ICICI Bank Limited A-9, Phelps Building Connaught Place New Delhi : 110001	0007BG00128506	03/08/2006	2.58	04/11/2006	01/10
3	ICICI Bank Limited A-9, Phelps Building Connaught Place New Delhi : 110001	0007BG00128606	03/08/2006	18.12	04/11/2006	01/04

It is requested that confirmation of issuance of the above Bank Guarantees as per the enclosed Por specially indicating the reference of this letter on the printed official letter head of the Bank, name, designation and code no. of the officers signing the Guarantees may please be forwarded to this office through registered post / speed post / courier.



Encl : As above

Yours faithfully

R.K.

(R.K.)

Manager

1002

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Shipping, Road Transport and Highways)

जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली-110 075

G-5 & 6, Sector-10, Dwarka, New Delhi-110075

दूरभाष / Phone : 91-11-25074100/25074200

फैक्स / Fa : 91-11-25093507 / 25093514

एक्स. / Ex n.: 2223 / 2318 / 2468 / 2553

NHAI/PH-II/NHDP/BOT(Annuity)/GM(N-II)/MP-UP/NS-I/2006/1063

06.11.2006

To
ICICI Bank Limited
ICICI Bank Tower
NBCC Place, Bisham Pitamah Marg
Pragati Vihar,
New Delhi : 110 003
Tel : 2430 8363
Fax : 2436 5231

Kind Attn : Ms. Namrata Sahni, Relationship Manager

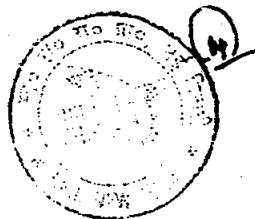
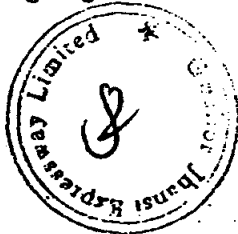
Sub : Design, Construction, Development, Finance, Operation and Maintenance of Km. 16.000 to Km. 96.127 on National Highway No. 75 in the States of Uttar Pradesh and Madhya Pradesh under North-South Corridor (NHDP Phase-II) on BOT (Annuity) Basis, Package No. NS-1/BOT/MP-UP : Reg Confirmation of Bank Guarantee and their amendments from the Controlling Branch.

Sir,

Please refer the following Bank Guarantees and their amendments as mentioned below issued by your branch ICICI Bank Limited, A-9, Phelps Building, Connaught Place, New Delhi towards performance security in favour of National Highways Authority of India, New Delhi for the work mentioned above.

S.NO.	Name of Bank	B.G.No.	B.G.Date	Amount (Rs in Crores)	Date of Amendment	Validity
1	ICICI Bank Limited A-9, Phelps Building Connaught Place New Delhi : 110001	0007BG00128406	03/08/2006	9.50	04/11/2006	01/10/2007
2	ICICI Bank Limited A-9, Phelps Building Connaught Place New Delhi : 110001	0007BG00128506	03/08/2006	2.58	04/11/2006	01/10/2007
3	ICICI Bank Limited A-9, Phelps Building Connaught Place New Delhi : 110001	0007BG00128606	03/08/2006	18.12	04/11/2006	01/04/2010

It is requested that confirmation of issuance of the above Bank Guarantees as per the enclosed Performance Indicators, specially indicating the reference of this letter on the printed official letter head of the Bank, name, designation and code no. of the officers signing the Guarantees may please be forwarded to this office through registered post / speed post / courier.



Yours faithfully,
R.K. Singh
(R.K. Singh)
Manager (N-II)

Encl : As above

o/c

000276



ICICI/ND/CIBD/TFO/2006-07/BG CONFIRMATION

To

The CGM(NS-I)/GM (N-II)
North South Corridor Division
National Highways Authority of India
G-5 & 6, Sector - 10, Dwarka,
New Delhi - 110075

Sub: Confirmation for issuance of Bank Guarantee Reference No. 0007BG00128406 Dated 03-08-2006 and amendment dated 03-08-2006 Issued on Behalf of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favor of National Highways Authority of India.

I, Madhur Jain, Manager, Specimen code No. J133 having its office at ICICI BANK LIMITED Corporate & Institutional Banking Division, 9A, Connaught Place, New Delhi 110001 hereby confirm that the bank Guarantee as per the particulars given below has been issued by this branch at the request of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favour of National Highways Authority of India.

Bank Guarantee no. 0007BG00128406
Valid From: - 03-08-2006
Valid up to: - 01-10-2007

Amount Guaranteed Rs.9, 50,00,000.00 (Rupees Nine Corers Fifty Lacs Only)

Issuing Branch postal Address : - CIBD, 9A, Connaught Place, New Delhi - 110001

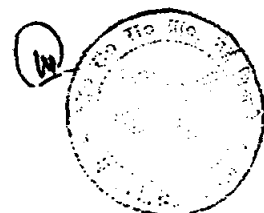
Telephone No: 011-66310400
Fax No: - 011-66310410
Email ID: - ndcibdtf@icicibank.com

(Seal & Signature)
Name in Block Capital Letters:-
Designation: -
ID Code of Officer :
Address: -

Madhur Jain
MADHUR JAIN
Manager J-133

Place: - New Delhi
Date: - 06-Nov-2006

ICICI Bank Limited
CIBD - First Floor
9-A, Connaught Place
New Delhi - 110001



ICICI Bank Limited
Corporate & Institutional
Banking Division
9A, Connaught Place
New Delhi - 110 001 India
CIBD Extension Counter: 17-18, Indraprastha Bhawan, Azad Pur NSM Delhi - 110001 (Azadpur)

Tel : (+91-11) 66310400
Fax : (+91-11) 66310410
Website : www.icicibank.com

Regd. Office : 'Landmark' Race Course Circle
Alkapuri, Vadodara - 390007, India
Tel: (+91-265) 339923-24 Fax: (+91-265) 339923-24



ICICI/ND/CIBD/TFO/2006-07/BG CONFIRMATION

To

The CGM(NS-I)/GM (N-II)
North South Corridor Division
National Highways Authority of India
G-5 & 6, Sector - 10, Dwarka,
New Delhi - 110075

**Sub: Confirmation for issuance of Bank Guarantee Reference
0007BG00128506 Dated 03-08-2006 and amendment dated 04-11-2006
Issued on Behalf of DSC Apollo consortium through its SPV Gwalior
Expressways Limited in favor of National Highways Authority of India.**

I, Madhur Jain, Manager, Specimen code No. J - 133 having its office at ICICI BANK LIMITED Corporate & Institutional Banking Division, 9A, Connaught Place, New Delhi 110001 hereby confirm that the bank Guarantee as per the particulars given below has been issued by this branch at the request of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favour of National Highways Authority of India

Bank Guarantee no. 0007BG00128506
Valid From: - 03-08-2006
Valid up to: - 01-10-2007

Amount Guaranteed Rs.2,58,00,000.00 (Rupees Two Corers Fifty Eight Lacs Only)

Issuing Branch postal Address : - CIBD, 9A, Connaught Place, New Delhi - 110001

Telephone No: 011-66310400
Fax No: - 011-66310410
Email ID: - ndcibdtf@icicibank.com

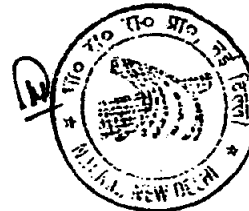
(Seal & Signature)
Name in Block Capital Letters:-
Designation: -
ID Code of Officer: -
Address: -

Madhur Jain
MADHUR JAIN
Manager J-133

ICICI Bank Limited
CIBD - First Floor
9-A, Connaught Place
New Delhi - 110001

Place: - New Delhi

Date: - 06-Nov-2006



ICICI Bank Limited
Corporate & Institutional
Banking Division
9A, Connaught Place
New Delhi - 110 001 India
CIBD Extension Counter : 17-18, Indraprastha Bhawan, Azad Pur, NSM, Delhi - 110033

Tel : (+91-11) 66310400
Fax : (+91-11) 66310410
Website : www.icicibank.com

Regd. Office : 'Landmark' Race Course Circle,
Alkapuri, Vadodara - 390007, India
Tel: (+91-265) 339921-24 Fax: (+91-265) 339926

900278



ICICI/ND/CIBD/TFO/2006-07/BG CONFIRMATION

To

The CGM(NS-I)/GM (N-II)
North South Corridor Division
National Highways Authority of India
G-5 & 6, Sector - 10, Dwarka,
New Delhi - 110075

Sub: Confirmation for issuance of Bank Guarantee Reference No. 0007BG00128606 Dated 03-08-2006 and amendment dated 04-11-2006 issued on Behalf of DSC Apollo consortium through its SPV Gwalior Expressways Limited in favour of National Highways Authority of India.

I, Madhur Jain, Manager, Specimen code No. J - 133 having its office at ICICI BANK LIMITED Corporate & Institutional Banking Division, 9A, Connaught Place, New Delhi 110001 hereby confirm that the bank Guarantee as per the particulars given below has been issued by this branch at the request of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favour of National Highways Authority of India.

Bank Guarantee no. 0007BG00128606
Valid From: - 03-08-2006
Valid up to: - 01-04-2010

Amount Guaranteed Rs.18,12,00,000.00 (Rupees Eighteen Corers Twelve Lacs Only)

Issuing Branch postal Address : - CIBD, 9A, Connaught Place, New Delhi - 110 001

Telephone No: 011-66310400
Fax No: - 011-66310410
Email ID: - ndcibdtf@icicibank.com

(Seal & Signature)

Name in Block Capital Letters:-

Designation: -

ID Code of Officer: -

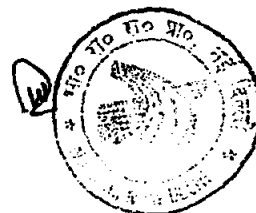
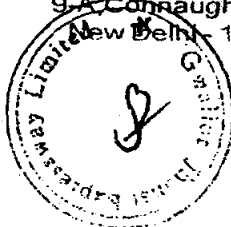
Address: -

MADHUR JAIN
Manager J - 133

ICICI Bank Limited
CIBD - First Floor
9A, Connaught Place
New Delhi - 110001

Place: - New Delhi

Date: - 06-Nov-2006



ICICI Bank Limited
Corporate & Institutional
Banking Division
9A, Connaught Place
New Delhi - 110 001 India
CIBD Extension Counter : 17-18, Indraprastha Bhawan, Azad Pur, NSM, Delhi - 110032
(Azadpur)

Tel : (+91-11) 66310400

Fax : (+91-11) 66310410

Website : www.icicibank.com

Regd. Office : 'Landmark' Race Course Circle,
Alkapuri, Vadodara - 390007, India

Tel : (+91-265) 339923-24 Fax : (+91-265) 339926

Tel : (+91-11) 66310400



ICICI/ND/NBCC/2006-07/BG CONFIRMATION

To

The CGM(NS-I)/GM (N-II)
North South Corridor Division
National Highways Authority of India
G-5 & 6, Sector - 10, Dwarka,
New Delhi - 110075

Sub: Confirmation for issuance of Bank Guarantee Reference no. 0007BG00128406 Dated 03-08-2006 and amendment dated 04-11-2006 Issued on Behalf of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favor of National Highways Authority of India.

I, Namrata Sawhney Arora, Manager, Specimen code No. S-121 having its office at ICICI BANK LIMITED, NBCC PLACE, BHISHMA PITAMAH MARG, NEW DELHI-110003 hereby confirm that the bank Guarantee as per the particulars given below has been issued by branch having its office at ICICI BANK LIMITED Corporate & Institutional Banking Division, 9A, Connaught Place, New Delhi - 110001 at the request of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favour of National Highways Authority of India.

Bank Guarantee no. 0007BG00128406
Valid From: - 03-08-2006
Valid up to: - 01-10-2007

Amount Guaranteed Rs.9, 50,00,000.00 (Rupees Nine Corers Fifty Lacs Only) .

Issuing Branch postal Address : - CIBD, 9A, Connaught Place, New Delhi - 110001

Telephone No: 011-42218363
Fax No: - 011-24365231
Email ID: - namrata.sawhney@icicibank.com

(Seal & Signature)

Name in Block Capital Letters:- NAMRATA SAWHNEY ABORA

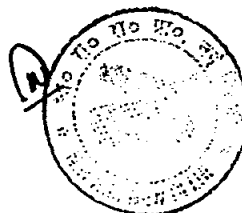
Designation: - MANAGER

ID Code of Officer : - S-121

Address: - ICICI BANK LIMITED, NBCC PLACE, BHISHMA PITAMAH MARG, LODHI ROAD, NEW DELHI-110003

Place: - New Delhi

Date: - 07-Nov-2006





ICICI/ND/NBCC/2006-07/BG CONFIRMATION

To

The CGM(NS-I)/GM (N-II)
North South Corridor Division
National Highways Authority of India
G-5 & 6, Sector - 10, Dwarka,
New Delhi - 110075

Sub: Confirmation for issuance of Bank Guarantee Reference no. 0007BG00128506 Dated 03-08-2006 and amendment dated 04-11-2006 Issued on Behalf of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favor of National Highways Authority of India.

I, Namrata Sawhney Arora, Manager, Specimen code No. S - 121 having its office at ICICI BANK LIMITED, NBCC PLACE, BHISHMA PITAMAH MARG, LODHI ROAD, NEW DELHI-110003, hereby confirm that the bank Guarantee as per the particulars given below has been issued by branch having its office at ICICI BANK LIMITED Corporate & Institutional Banking Division, 9A, Connaught Place, New Delhi - 110001 at the request of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favour of National Highways Authority of India.

Bank Guarantee no. 0007BG00128506
Valid From: - 03-08-2006
Valid up to: - 01-10-2007

Amount Guaranteed Rs.2,58,00,000.00 (Rupees Two Corers Fifty Eight Lacs Only).

Issuing Branch postal Address : - CIBD, 9A, Connaught Place, New Delhi - 110001

Telephone No: 011-42218363
Fax No: - 011-24365231
Email ID: - namrata.sawhney@icicibank.com

(Seal & Signature)

Name in Block Capital Letters:- NAMRATA SAWHNEY ARORA

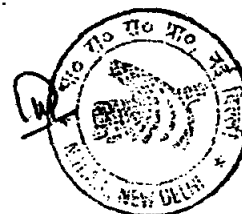
Designation: - MANAGER

ID Code of Officer : - S-121

Address: - ICICI BANK LIMITED, NBCC PLACE, BHISHMA PITAMAH MARG, LODHI ROAD, NEW DELHI-110003

Place: - New Delhi

Date: - 07-Nov-2006





ICICI/ND/NBCC/2006-07/BG CONFIRMATION

To

The CGM(NS-I)/GM (N-II)
North South Corridor Division
National Highways Authority of India
G-5 & 6, Sector - 10, Dwarka,
New Delhi - 110075

Sub: Confirmation for issuance of Bank Guarantee Reference no. 0007BG00128606 Dated 03-08-2006 and amendment dated 04-11-2006 Issued on Behalf of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favour of National Highways Authority of India.

I, Namrata Sawhney Arora, Manager, Specimen code No. S - 121 having its office at ICICI BANK LIMITED, NBCC Place, Bhishma Pitamah Marg, Lodhi Road-110003, hereby confirm that the bank Guarantee as per the particulars given below has been issued by ICICI Bank 9-A, Phelps Building Connaught Place branch, New Delhi-110001 branch at the request of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favour of National Highways Authority of India.

Bank Guarantee no. 0007BG00128606
Valid From: - 03-08-2006
Valid up to: - 01-04-2010

Amount Guaranteed Rs.18,12,00,000.00 (Rupees Eighteen Corers Twelve Lacs Only).

Issuing Branch postal Address: - CIBD, 9A, Connaught Place, New Delhi - 110001

Telephone No: 011-42218363
Fax No: - 011-24365231
Email ID: - namrata.sawhney@icicibank.com

(Seal & Signature)

Name in Block Capital Letters: - NAMRATA SAWHNEY ARORA

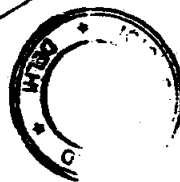
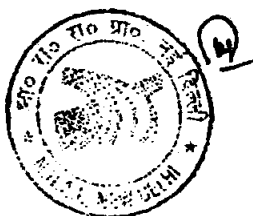
Designation: - MANAGER

ID Code of Officer: - S-121

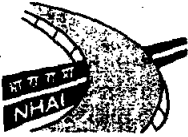
Address: - ICICI BANK LIMITED, NBCC PLACE, BHISHMA PITAMAH MARG, LODHI ROAD, NEW DELHI-110003

Place: - New Delhi

Date: - 07-Nov-2006



000282



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)
National Highways Authority of India

(Ministry of Shipping, Road Transport and Highways)

जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली-110 075

G-5 & 6, Sector-10, Dwarka, New Delhi-110075

दूरभाष / Phone: 91-11-25074100/2507

फैक्स / Fax: 91-11-25093507 / 2509

एक्स. / E xtn.: 2223 / 2318 / 2468 / 1

NHAI/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/MP-UP/NS-1/2006/1082

Date: 17.11.2006

To

M/s Gwalior Jhansi Expressways Limited

C-66, South Extension-II,

New Delhi-110 049.

Phone No.91-11-26262470

Fax No.91-11-26252386

Kind Attn.: Sh. M.S. Narula, Authorized Signatory

Sub:- Design, Construction, Development, Finance, Operation and Maintenance of the work of Rehabilitation and Upgrading to four lane from Km. 16.000 to Km. 90.127 on National Highway No. 75 (NH-75) in the States of Uttar Pradesh & Madhya Pradesh under North South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis – Package No. NS-1/BOT/MP-UP: Further Amendment to Bank Guarantees and amendments dated 04.11.2006 submitted against performance security.

Sir,

Please refer to your letter dated 04-08-2006 submitting therewith three Bank Guarantees against performance security and your letter dated 04.11.2006 submitting therewith amendments to the BGs as mentioned above. The BGs and amendments have been examined. Following further amendments are needed so that the BGs against performance security are as per requirement of the RFP

1. Original BG. No. 0007BG00128606 dated 03.08.2006 for Rs. 18.12 Crores

a) Clause 1 after para 13 of the BG may be modified as

"Our liability under this bank guarantee shall not exceed Rs.18.12 Crores only (Indian Rupees Eighteen Crores Twelve Lacs only)"

instead of

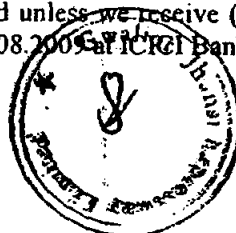
"Our aggregate liability under the bank Guarantee on account of multiple invocation or replenishment of the existing Guarantee or fresh guarantees shall not exceed Rs.18.12 Crores only (Indian Rupees Eighteen Crores Twelve Lacs only)".

b) Clause 3 after para 13 of the BG may be modified as

"We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if you serve upon us a written claim or demand under this guarantee on or before 01.04.2010 at ICICI Bank Ltd. 9A, Connaught place, New Delhi-110001"

instead of

"No rights shall be accrued unless we receive (if you serve upon us) a written claim or demand under this Guarantee on or before 02.08.2009 at ICICI Bank 9A, Connaught Place, New Delhi - 110 001"



1 of 4



300283

2. Original BG. No. 0007BG00128506 dated 03.08.2006 for Rs. 2.58 Crores

a) **Clause 1 after para 13 of the BG may be modified as**

"Our liability under this bank guarantee shall not exceed Rs.2.58 Crores only (Indian Rupees Two Crores Fifty Eight Lacs only)"

instead of

"Our aggregate liability under the bank Guarantee on account of multiple invocation or replenishment of the existing Guarantee or fresh guarantees shall not exceed Rs.2.58 Crores only (Indian Rupees Two Crores Fifty Eight Lacs only)"

b) **Clause 3 after para 13 of the BG may be modified as**

"We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if you serve upon us a written claim or demand under this guarantee on or before 02.10.2007 at ICICI Bank Ltd. 9A, Connaught place, New Delhi-110001"

instead of

"No rights shall be accrued unless we receive (if you serve upon us) a written claim or demand under this Guarantee on or before 02.03.2007 at ICICI Bank 9A, Connaught Place, New Delhi - 110 001"

3. Original BG. No. 0007BG00128406 dated 03.08.2006 for Rs. 9.50 Crores

a) **Clause 1 after para 13 of the BG may be modified to**

"Our liability under this bank guarantee shall not exceed Rs.9.50 Crores only (Indian Rupees Nine Crores Fifty Lacs only)"

instead of

"Our aggregate liability under the bank Guarantee on account of multiple invocation or replenishment of the existing Guarantee or fresh guarantees shall not exceed Rs.9.50 Crores only (Indian Rupees Nine Crores Fifty Lacs only)".

b) **Clause 3 after para 13 of the BG may be modified as**

"We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if you serve upon us a written claim or demand under this guarantee on or before 02.10.2007 at ICICI Bank Ltd. 9A, Connaught place, New Delhi-110001"

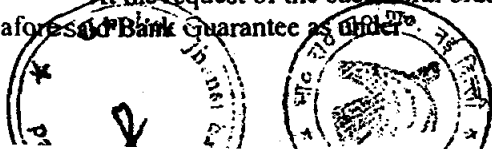
instead of

"No rights shall be accrued unless we receive (if you serve upon us) a written claim or demand under this Guarantee on or before 02.03.2007 at ICICI Bank 9A, Connaught Place, New Delhi - 110 001"

4. Amendment dated 04.11.2006 to BG No 0007BG00128606 for Rs. 18.12 Crores

a) The opening para of the amendments to the BG at line no. 12 and 13 of the amendment may be modified as

"At the request of the successful bidder and/or the Concessionaire, the Guarantor has amended the aforesaid Bank Guarantee as under"



instead of

"As requested by our customer DS Constructions Ltd, we have amended the aforesaid Bank Guarantee as under"

b) Clause 3 as mentioned in the amendment to the BG (at line no. 37,38,39 and 40 of the amendment) may be modified as

" We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if you serve upon us a written claim or demand under this guarantee on or before 01.04.2010 at ICICI Bank Ltd. 9A, Connaught place, New Delhi-110001"

instead of

"We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if we receive (if you serve upon us) a written claim or demand under this guarantee on or before 01.04.2010 at ICICI Bank Ltd., 9A Connaught Place, New Delhi - 110 001"

5. Amendment dated 04.11.2006 to BG No 0007BG00128506 for Rs. 2.58 Crores

a) The opening para of the amendments to the BG at line no. 13 and 14 of the amendment may be modified as

"At the request of the successful bidder and /or the Concessionaire , the Guarantor has amended the aforesaid Bank Guarantee as under"

instead of

"As requested by our customer DS Constructions Ltd, we have amended the aforesaid Bank Guarantee as under"

b) Clause 3 as mentioned in the amendment to the BG (at line no. 41,42,43 and 44 of the amendment) may be modified as

" We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if you serve upon us a written claim or demand under this guarantee on or before 01.10.2007 at ICICI Bank Ltd. 9A, Connaught place, New Delhi-110001"

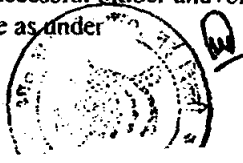
instead of

"We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if we receive (if you serve upon us) a written claim or demand under this guarantee on or before 01.10.2007 at ICICI Bank Ltd., 9A, Connaught Place, New Delhi - 110 001"

6 Amendment dated 04.11.2006 to BG No 0007BG00128406 for Rs. 9.50 Crores

a) The opening para of the amendments to the BG at line no. 12 and 13 of the amendment may be modified as

"At the request of the successful bidder and /or the Concessionaire , the Guarantor has amended the aforesaid Bank Guarantee as under"



instead of

"As requested by our customer DS Constructions Ltd, we have amended the aforesaid Bank Guarantee as under"

b) Clause 3 as mentioned in the amendment to the BG (at line no. 40, 41, 42 and 43 of the amendment) may be modified as

" We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if you serve upon us a written claim or demand under this guarantee on or before 01.10.2007 at ICICI Bank Ltd. 9A, Connaught place, New Delhi-110001"

instead of

"We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if we receive (if you serve upon us) a written claim or demand under this guarantee on or before 01.10.2007 at ICICI Bank Ltd., 9A, Connaught Place, New Delhi - 110 001"

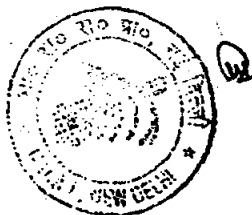
You are requested to submit amendments to the BGs as mentioned above incorporating the above modification suggested by NHAI.

Yours faithfully,

R.K. Singh

(R.K. Singh)
Manager (N-II)

O/c



GWALIOR JHANSI EXPRESWAYS LIMITED

1167/62 (N-2)
2/12/06
Ref. No. : DSCL/2K6/ MR/1935
Date : 29th November, 2006

Mr. R.K. Singh
Manager (N-II)
National Highway Authority of India
(Ministry of Shipping, Road Transport and Highways)
G-5 & 6, Sector-10, Dwarka
New Delhi-110075

Ref: Design, construct, develop, finance, operate, maintain, rehabilitate and upgrade the existing two lane road to four/Six lane from km 16.00 (Gwalior) to km 96.127 (Jhansi) on National Highway-75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh under North-South Corridor (NHDP Phase-II) plan of National Highway Authority of India on Build, Operate and Transfer (BOT) (Annuity) basis.

Dear Sir,

With reference to your letter No. NHAI/PH-II/NHDP/BOT(ANNUITY)/GM(I-II)/MP-UP/NS-1/2006/1082 dated 17th November 2006 we hereby submit the amendments to the three Bank Guarantees no. 007BG00128406, 007BG00128506 and 007BG00128606 each dated 03.08.2006 and their amendments dated 04.11.2006, duly incorporating all the necessary additional modifications required.

With Regards

For Gwalior Jhansi Expressways Limited


Director

Encl : As above

Cc to:-

1. Mr. A K Bajaj, Chief General Manager(NS), National Highways Authority of India, G-5 & 6, Sector - 10, Dwarka, New Delhi - 110 075. (For information).

2. Mr. M P Sharma, General Manager (N-II), National Highways Authority of India, G-5 & 6, Sector - 10, Dwarka, New Delhi - 110 075. (For information).

Registered office: C-66, South Extension Part-II, New Delhi-110049

Telephone: 011-26255835/26256837/26252753.

Fax: 011-26252386, 26252248

900287

भारतीय गैर न्यायिक

एक सौ रुपये

Rs. 100

रु. 100



सत्यमेव जयते

ONE
HUNDRED RUPEES

भारत INDIA

INDIA NON JUDICIAL

दिल्ली DELHI

B 903604

This Stamp Paper forms an integral part of Amendment to Bank Guarantee No.
0007BG00128506, Dated 03.03.2006

For ICICI Bank Limited

9A Connaught Place, New Delhi 110048
RUMA BHATTACHARYA, Manager S-705
PRADIP N. SHARMA, Asst. Manager S-705



900288

S. No. 020313

BANK GUARANTEE
ICICI Bank Limited
(Incorporated in India)

ICICI Bank

BG Number: 0007BG00128506
Amendment Date: 29.11.2006

1 Amendment to Bank Guarantee No. 0007BG00128506 Dated 03.08.2006 for Rs. 2.58
2 Crores issued in favour of NHAI

3
4 To,
5 The National Highway Authority of India (NHAI)
6 G-5 & G-6, Sector-10,
7 Dwarka, New-Delhi-110045
8 Beneficiary's Name

9
10 At the request of successful bidder and / or the concessionaire, the Guarantor has
11 amended the aforesaid Bank Guarantee as under:-

12
13 Page No. 1 of amendment dated 04.11.2006 Line No. 13 & 14
14 Clause No. 3 of the Original Bank Guarantee dated 03.08.2006 and page 1 & 2 of
15 amendment dated 04.11.2006 Line no. 41 to 44
16 Page No. 3 of the Original Bank Guarantee dated 03.08.2006 NWC clause 1

17
18 Page No. 1 of amendment dated 04.11.2006 Line No. 13 & 14 of the Original Bank
19 Guarantee should be read as follows:-

20
21 "At the request of successful bidder and / or the concessionaire the Guarantor has
22 amended the aforesaid Bank Guarantee as under:-

23
24 Bank Guarantee No. 0007BG00128506 Dated 03.08.2006

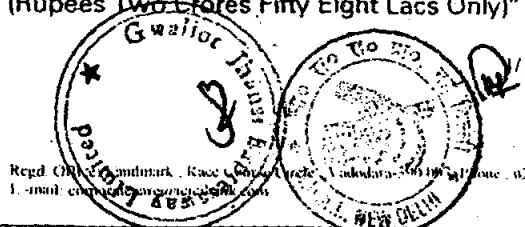
25
26 Clause No. 3 of the Original Bank Guarantee dated 03.08.2006 and page 1 & 2 of
27 amendment dated 04.11.2006 line no. 41 to 44 should be read as follows:-

28
29 "We shall be liable to pay guaranteed amount under this Bank Guarantee or part
30 thereof only if you serve upon us a written claim or demand under this guarantee on
31 or before 01.10.2007 at ICICI Bank Limited, 9-A, Phelps Building, Connaught Place,
32 New-Delhi-110001"

33
34 Page No. 3 of the Original Bank Guarantee dated 03.08.2006 NWC clause 1 should be
35 read as follows:-

36
37 "Our liability under this Bank Guarantee shall not exceed Rs. 2.58 Crores only
38 (Rupees Two Crores Fifty Eight Lacs Only)"

For ICICI Bank Limited



Regd. Office: "Landmark", Race Course Circle, Vadodra-390 007. Phone: 0265-2340020 Fax: 0265-234166
E-mail: corporatecare@icicibank.com SWIFT: ICIC IN BB

Signature of Secretary
9A, Connaught Place, New-Delhi-110001

PRAVEEN SHARMA
Asstt. Manager S-705

Dr. No. 020314

BANK GUARANTEE

ICICI Bank Limited

(Incorporated in India)

ICICI Bank

BG Number: 0007BG00128506

Amendment Date: 29.11.2006

All other terms and conditions remains unchanged. This amendment should be kept and read along with our Original Bank Guarantee No. 0007BG00128506 issued on 03.08.2006 and amendment dated 04.11.2006 to be attached thereto.

Notwithstanding anything contained hereinabove:-

1. Our liability under this Bank Guarantee shall not exceed Rs 2.58 Crores Only (Two Crores Fifty Eight Lacs Only).
2. Our Liability under this Bank Guarantee shall be valid up to 01.10.2007
3. We shall be liable to pay guaranteed amount under this Bank Guarantee or part thereof only if you serve upon us a written claim or demand under this guarantee on or before 01.10.2007 at ICICI Bank Limited, 9-A Phelps Building, Connaught Place, New-Delhi-110001.

Date: 29.11.2006

Place: New Delhi

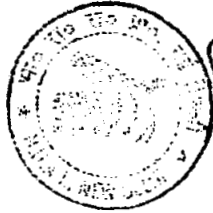
For ICICI Bank Limited

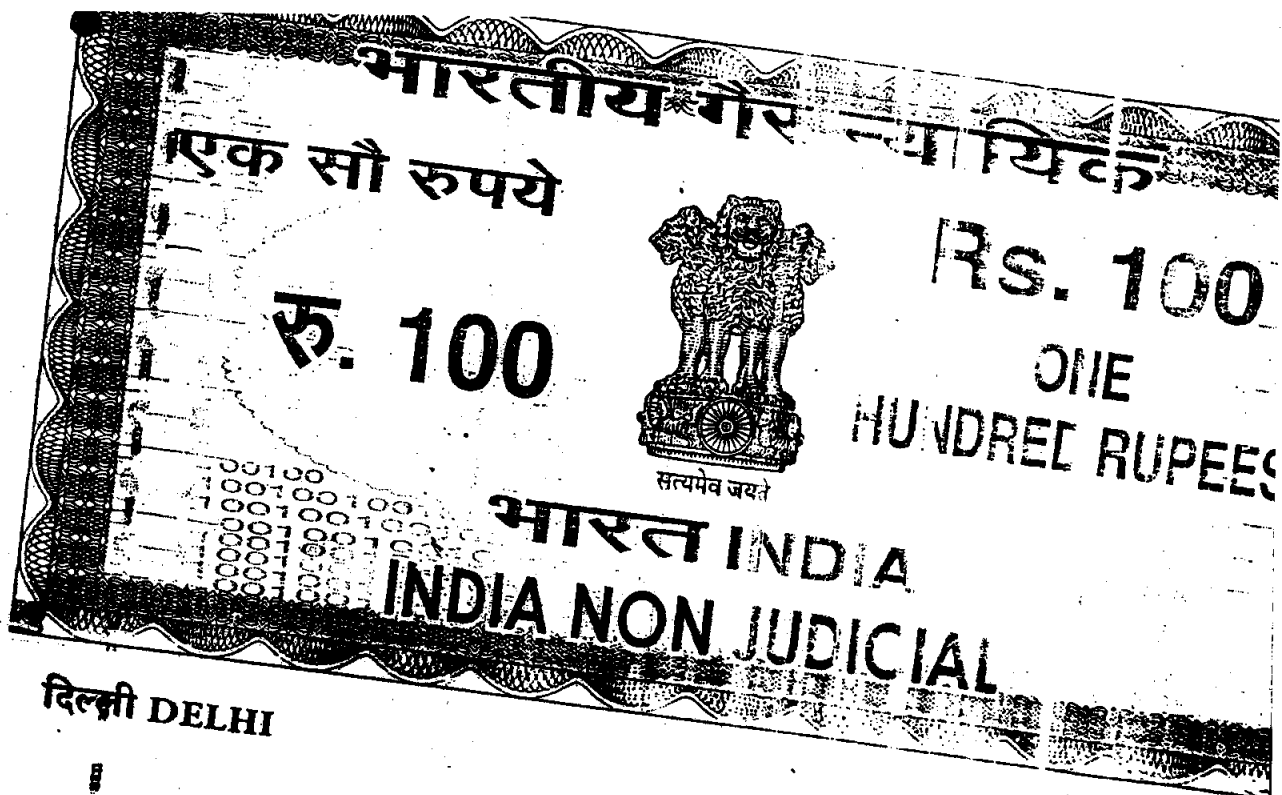
Authorized Signatory
9A, Connaught Place N. Delhi-11

Seal of the bank _____
Name of the Bank _____
Signature _____
Name _____
Title _____
Date _____

RUMA B. BATA
Manager

PR. VEEN SHARMA
Asst. Manager S-705





दिल्ली DELHI

This Stamp Paper forms an integral part of Amendment to Bank Guarantee No.
00078G00128606, Dated 03.08.2006

For ICICI Bank Limited

[Signature]

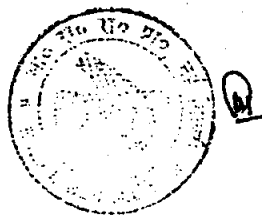
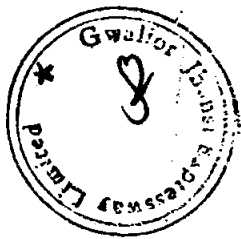
Authorized Signatory

9A, Conn. Place, N. Delhi

RUMA BHATTACHARYA
Manager

B-102

PRAVEEN SHARMA
Asstt. Manager S-7



BANK GUARANTEE

CICI Bank Limited

(Incorporated in India)



BG Number: 0007E G00128606

Issue Date: 29.11.2006

1 Amendment to Bank Guarantee No. 0007BG00128606 Dated 03.08.2006 for Rs. 18.12
2 Crores issued in favour of NHAI

3

4 To,

5 The National Highway Authority of India (NHAI)

6 G-5 & G-6, Sector-10,

7 Dwarka, New-Delhi-110045

8 Beneficiary's Name

9

10 At the request of successful bidder and / or the concessionaire, the Guarantor has
11 amended the aforesaid Bank Guarantee as under:-

12

13 Page No. 1 of amendment dated 04.11.2006 Line No. 12 & 13.

14 Clause No. 3 of the Original Bank Guarantee dated 03.08.2006 and page 1 & 2 of
15 amendment dated 04.11.2006 Line no. 37 to 40.

16 Page No. 3 of the Original Bank Guarantee dated 03.08.2006 NWC clause 1.

17

18 Page No. 1 of amendment dated 04.11.2006 Line No. 12 & 13 of the Original Bank
19 Guarantee should be read as follows:-

20

21 "At the request of successful bidder and / or the concessionaire, the Guarantor has
22 amended the aforesaid Bank Guarantee as under:-

23

24 Bank Guarantee No. 0007BG00128606 Dated 03.08.2006

25

26 Clause No. 3 of the Original Bank Guarantee dated 03.08.2006 and page 1 & 2 of
27 amendment dated 04.11.2006 line no. 37 to 40 should be read as follows:-

28

29 "We shall be liable to pay guaranteed amount under this Bank Guarantee or part
30 thereof only if you serve upon us a written claim or demand under this guarantee on
31 or before 01.04.2010 at ICICI Bank Limited, 9-A, Phebas Building, Connaught Place,
32 New-Delhi-110001"

33

34 Page No. 3 of the Original Bank Guarantee dated 03.08.2006 NWC clause 1 should be
35 read as follows:-

36

37 "Our liability under this Bank Guarantee shall not exceed Rs. 18.12-Crores Only
38 (Rupees Eighteen Crores Twelve Lacs Only)"

For ICICI Bank Limited

1/1

Authorized Signatory

9-A, Connaught Place, N. Delhi-1

PRAVEEN SHARMA

Asstt. Manager S-705

SUMITRACHARYA

Manager E-92



000292

BANK GUARANTEE
ICICI Bank Limited
(Incorporated in India)

Sl. No. 020310



BG Number: 000 BG00128606
Issue Date: 29.11.2006

39
40 All other terms and conditions remains unchanged. This amendment should be kept
41 and read along with our Original Bank Guarantee No. 0007BG00128606 issued on
42 03.08.2006 and amendment dated 04.11.2006 to be attached thereto.
43
44

45 Notwithstanding anything contained hereinabove:-
46

47 1. Our liability under this Bank Guarantee shall not exceed Rs. 18.12 Crores Only
48 (Rupees Eighteen Crores Twelve Lacs Only).
49

50 2. Our Liability under this Bank Guarantee shall be valid up to 31.04.2010
51

52 3. We shall be liable to pay guaranteed amount under this Bank Guarantee or
53 part thereof only if you serve upon us a written claim or demand under this
54 guarantee on or before 01.04.2010 at ICICI Bank Limited, 9-A, Phelps Building,
55 Connaught Place, New-Delhi-110001.
56

57 Date: 29.11.2006
58 Place: New Delhi
59

60 Seal of the bank _____
61 Name of the Bank _____
62 Signature _____
63 Name _____
64 Title _____
65 Date _____

For ICICI Bank Limited

Authorized Signatory
9A, Connaught Place, Delhi-11
RUIWA BHAT, CHIEF
Manager
PRAVEEN SHARMA
Asstt. Manager S-705



भारतीय गैर न्यायिक

एक सौ रुपये

रु. 100



सत्यमेव जयते

Rs. 100

ONE
HUNDRED RUPEES

भारत INDIA

INDIA NON JUDICIAL

B 903603

दिल्ली DELHI

This Stamp Paper forms an integral part of Amendment to Bank Guarantee No.
0007BG00128406, Dated 03.08.2006

For ICICI Bank Limited

[Signature]

Authorized Signatory

Sd/- Comptroller, Delhi-1

RUMA BHATTACHARYA
Manager

PRAVEN S. SHARMA
Asstt. Manager S-705



000294

Sr. No. 020311

BANK GUARANTEE
ICICI Bank Limited
(Incorporated in India)

ICICI Bank

BG Number: 007BG00128406
Amendment Date: 29.11.2006

1 Amendment to Bank Guarantee No. 0007BG00128406 Dated 03.08.2006 for Rs. 9.50
2 Crores issued in favour of NHAI

3
4 To,
5 The National Highway Authority of India (NHAI)
6 G-5 & G-6, Sector-10,
7 Dwarka, New-Delhi-110045
8 Beneficiary's Name
9

10 At the request of successful bidder and / or the concessionaire, the Guarantor has
11 amended the aforesaid Bank Guarantee as under:-

12
13 Page No. 1 of amendment dated 04.11.2006 Line No. 12 & 13
14 Clause No. 3 of the Original Bank Guarantee dated 03.08.2006 and page 1 & 2 of
15 amendment dated 04.11.2006 line no. 40 to 43
16 Page No. 3 of the Original Bank Guarantee dated 03.08.2006 NWC clause 1

17
18 Page No. 1 of amendment dated 04.11.2006 Line No. 12 & 13 of the Original Bank
19 Guarantee should be read as follows:-

20
21 "At the request of successful bidder and / or the concessionaire, the Guarantor has
22 amended the aforesaid Bank Guarantee as under:-

23
24 Amendment to Bank Guarantee No. 0007BG00128406 Date 10.03.2006

25
26 Clause No. 3 of the Original Bank Guarantee dated 03.08.2006 and page 1 & 2 of
27 amendment dated 04.11.2006 line no. 40 to 43 should be read as follows:-

28
29 "We shall be liable to pay guaranteed amount under this Bank Guarantee or part
30 thereof only if you serve upon us a written claim or demand under this guarantee on
31 or before 01.10.2007 at ICICI Bank Limited, 9-A, Phelps Building, Connaught Place,
32 New-Delhi-110001"

33
34 Page No. 3 of the Original Bank Guarantee dated 03.08.2006 NWC clause 1 should be
35 read as follows:-

36
37 "Our liability under this Bank Guarantee shall not exceed Rs. 9.50 Crores only
38 (Rupees Nine Crores Fifty Lacs Only)"

Regd Office: Landmark, Race Course Circle, Vadodra-390 007. Phone: 0263-2333333
E-mail: corporatecare@icicibank.com

For ICICI Bank Limited

Authorized Signatory

IA, Corporate Office, Delhi

RAJESH TACHAR

Manager

PRAVEEN SHARMA
Asstt. Manager S-705

BANK GUARANTEE
ICICI Bank Limited
(Incorporated in India)

Sr. No. 020312



BG Number: 007BG00128406
Amendment Date 29.11.2006

All other terms and conditions remains unchanged. This amendment should be kept and read along with our Original Bank Guarantee No. 0007BG00128406 issued on 03.08.2006 and amendment dated 04.11.2006 to be attached thereto.

Notwithstanding anything contained hereinabove:-

1. Our liability under this Bank Guarantee shall not exceed Rs. 9.50 Crores Only (Rupees Nine Crores Fifty Lacs Only).

2. Our Liability under this Bank Guarantee shall be valid up to 31.10.2007

3. We shall be liable to pay guaranteed amount under this Bank Guarantee or part thereof only if you serve upon us a written claim or demand under this guarantee on or before 01.10.2007 at ICICI Bank Limited, 9-A, Phelps Building, Connaught Place, New-Delhi-110001.

Date: 29.11.2006

Place: New Delhi

For ICICI Bank Limited

Authorised Signator
9A, Connaught Place, N. Delhi

Seal of the bank _____

Name of the Bank _____

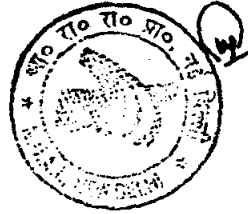
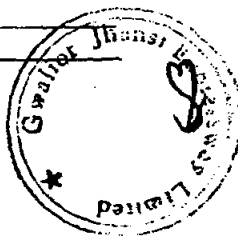
Signature _____

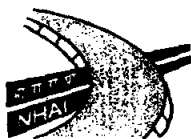
Name _____

Title _____

Date _____

RUJMA BHATTACHARYA PRAVEEN SHARMA
Manager 3-10 Asst. Manager S-705





भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Shipping, Road Transport and Highways)

जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली-110 075

G-5 & 6, Sector-10, Dwarka, New Delhi-110075

NHAI/PH-II/NHDP/BOT(Annuity)/GM(N-II)/MP-UP/NS-I/2006/112-

दूरभाष / Phone: 91-11-25074100/25074

फैक्स / Fax: 91-11-25093507 / 25093

एक्स. / Etn.: 2223 / 2318 / 2488 / 2

01.12.2006

To

ICICI Bank Limited
ICICI Bank Tower
NBCC Place, Bisham Pitamah Marg
Pragati Vihar,
New Delhi : 110.003
Tel : 2430 8363
Fax : 2436 5231

Kind Attn : Ms. Namrata Sahni, Relationship Manager

Sub : Design, Construction, Development, Finance, Operation and Maintenance of Km. 16.000 to Km 96.127 on National Highway No. 75 in the States of Uttar Pradesh and Madhya Pradesh under North- South Corridor (NHDP Phase-II) on BOT (Annuity) Basis, Package No. NS-1/BOT/MP UP : Reg. **Confirmation of amendments to Bank Guarantees from the Controlling Branch.**

Sir,

Please refer the amendments to the following Bank Guarantees details of which are mentioned below issued by your branch ICICI Bank Limited, A-9, Phelps Building, Connaught Place, New Delhi towards performance security in favour of National Highways Authority of India, New Delhi for the work mentioned above.

S.NO.	Name of Bank	B.G.No.	B.G.Date	Amount (Rs in Crores)	Date of Amendment	Validity
1	ICICI Bank Limited A-9, Phelps Building Connaught Place New Delhi : 110001	0007BG00128406	03/08/2006	9.50	29 11/2006	01/10/2007
2	ICICI Bank Limited A-9, Phelps Building Connaught Place New Delhi : 110001	0007BG00128506	03/08/2006	2.58	29 11/2006	01/10/2007
3	ICICI Bank Limited A-9, Phelps Building Connaught Place New Delhi : 110001	0007BG00128606	03/08/2006	18.12	29 11/2006	01/04/2010

It is requested that confirmation of issuance of the amendments of the above Bank Guarantees as per the enclosed Performa specially indicating the reference of this letter on the printed official letter head of the Bank, name, designation and code no. of the officers signing the Guarantees may please be forwarded to this office through registered post / speed post / courier.

Encl : As above



Yours faithfully,

R.K. Singh
(R.K. Singh)
Manager (N-II)

30029

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Shipping, Road Transport and Highways)

जी-5 एवं 6, सेक्टर 6, द्वारका, नई दिल्ली-110 075

G-5 & 6, Sector 6, Dwarka, New Delhi-110075

दूरभाष / Phone: 91-11-25074100/25074290

फैक्स / Fax: 91-11-25093507 / 25093514

एक्स. / E.in.: 2223 / 2318 / 2468 / 2553

NHA/PH-II/NHDP/BG (Annuity)/GM(N-II)/MP-UP/NS-I/2006/11

01.12.2006

To,

The General Manager

ICICI Bank Limited

A-9, Phelps Building

Connaught Place

New Delhi : 110001.

Fax No. 011-66310410/420

Kind Attn : Mr. Madhur Jain, Manager / Ms. Ruma Bhattacharya, Manager

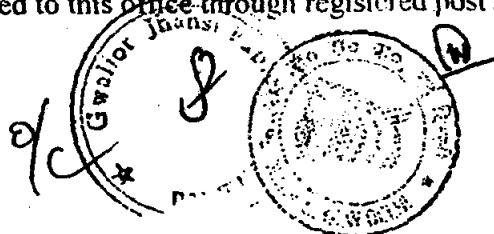
Sub : Design, Construction, Development, Finance, Operation and Maintenance of Km. 16.000 to Km. 96.127 on National Highway No. 75 in the States of Uttar Pradesh and Madhya Pradesh under North-South Corridor (NHDP Phase-II) on BOT (Annuity) Basis, Package No. NS-I/BOT/MP-UP : Reg. Confirmation of amendments to Bank Guarantees from the Issuing Branch.

Sir,

Please refer to the amendments of the following Bank Guarantees details of which are mentioned below issued by your branch towards performance security in favour of National Highways Authority of India, New Delhi for the work mentioned above.

S.NO.	Name of Bank	B.G.No.	B.G.Date	Amount (Rs in Crores)	Date of Amendment	Validity
1	ICICI Bank Limited A-9, Phelps Building Connaught Place New Delhi : 110001	0007BG00128406	03/08/2006	9.50	29/11/2006	01/10/2007
2	ICICI Bank Limited A-9, Phelps Building Connaught Place New Delhi : 110001	0007BG00128506	03/08/2006	2.58	29/11/2006	01/10/2007
3	ICICI Bank Limited A-9, Phelps Building Connaught Place New Delhi : 110001	0007BG00128606	03/08/2006	18.12	29/11/2006	01/04/2010

It is requested that confirmation of issuance of the amendments to the above Bank Guarantees (as mentioned above) as per the enclosed Porforma specially indicating the reference of this letter on the printed official letter head of the Bank, name, designation and code no. of the officers signing the Guarantees may please be forwarded to this office through registered post / speed post / courier.



Yours faithfully,

(R.K. Singh)

Manager (N-I)

Encl : As above

300298

1202/am(N-D)
4-12-06

ICICI Bank

ICICI/ND/CIBD/TFO/2006-07/BG CONFIRMATION

To

The CGM(NS-I)/GM (N-II)
North South Corridor Division
National Highways Authority of India
G-5 & 6, Sector - 10, Dwarka,
New Delhi - 110075

Sub: Confirmation for issuance of Bank Guarantee Reference no. 0007BG00128406 Dated 03-08-2006 and amendment dated 29-11-2006 Issued on Behalf of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favor of National Highways Authority of India.

Your Ref No: NHAI/PH-II/NHDP/BOT(Annuity)/GM(N-II)/MP-LIP/NS-I/2006/1111 Dated 01.12.2006

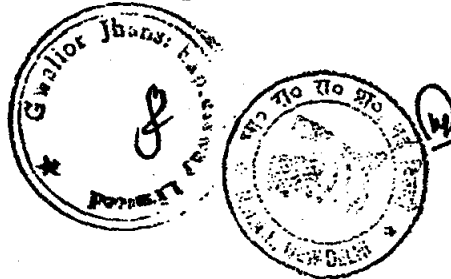
I, Dhiraj Trivedi, Manager, Specimen code No. T-111 having its office at ICICI BANK LIMITED Corporate & Institutional Banking Division, 9A Connaught Place, New Delhi - 110001 hereby confirm that the bank Guarantee as per the particulars given below has been issued by this branch at the request of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favour of National Highways Authority of India.

Bank Guarantee no. 0007BG00128406
Valid From: - 03-08-2006
Valid up to: - 01-10-2007

Amount Guaranteed Rs.9,50,00,000.00 (Rupees Nine Crores Fifty Lacs Only).

Issuing Branch postal Address : - CIBD, 9A, Connaught Place, New Delhi - 110001

Telephone No: 011-66310400
Fax No: - 011-66310410
Email ID: - ndcibdtf@icicibank.com



(Seal & Signature)

Name in Block Capital Letters: - **DHIRAJ TRIVEDI**

Designation: - **MANAGER**

ID Code of Officer :

Address: - **DHIRAJ TRIVEDI**
Manager T-111

Place: - New Delhi

Date: - 02.12.2006

000299

ICICI Bank Limited

Corporate & Institutional

Banking Division

9A, Connaught Place

New Delhi - 110 001 India

CIBD Extension Counter : 17-18, Indraprastha Bhawan, Azad Pur, NSM, Delhi - 110033 (Azadpur)

Tel : (+91-11) 66310400

Fax : (+91-11) 66310410

Website : www.icicibank.com

Regd. Office : 'Lanemark' Race Course Circle
Alkapuri, Vadodra - 390007, India

Tel : (+91-265) 339523-24 Fax : (+91-265) 3399

Tel : (+91-11) 27400000



ICICI/ND/NBCC/TFO/2006-07/BG CONFIRMATION

To

The CGM(NS-I)/GM (N-II)
North South Corridor Division
National Highways Authority of India
G-5 & 6, Sector - 10, Dwarka,
New Delhi - 110075

Sub: Confirmation for issuance of Bank Guarantee Reference no. 0007BG00128606 Dated 03-08-2006 and amendment dated 29-11-2006 Issued on Behalf of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favour of National Highways Authority of India.

Your Ref No: NHA/PH-II/NHDP/BOT(Annuity)/GM(N-II)/MP-UP/NS-I/2003/1111 Dated 01.12.2006

I, Praveen Yadav, Manager, Specimen code No. T-111 having its office at ICICI BANK LIMITED, NBCC Place, BHISHMA PITAMAH MARG, NEW DELHI - 110 003 hereby confirm that the bank Guarantee as per the particulars given below has been issued by branch having its office at ICICI BANK LIMITED Corporate & Institutional Banking Division, 9A, Connaught Place, New Delhi - 110001 at the request of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favour of National Highways Authority of India.

Bank Guarantee no. 0007BG00128606

Valid From: - 03-08-2006

Valid up to: - 01-04-2010

Amount Guaranteed Rs.18,12,00,000.00 (Rupees Eighteen Crores Twelve Lacs Only).

Issuing Branch postal Address : - CIBD, 9A, Connaught Place, New Delhi - 110001

Telephone No: 011-42218342

Fax No: - 011-24390070

Email ID: - ndcibdtf@icicibank.com

(Seal & Signature)

Name in Block Capital Letters:- PRAVEEN YADAV

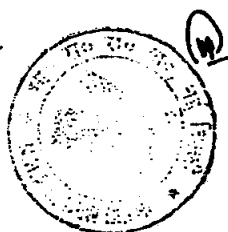
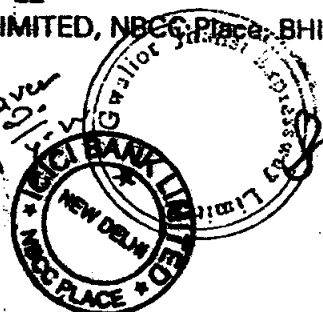
Designation: - MANAGER

ID Code of Officer : - Y - 22

Address: - ICICI BANK LIMITED, NBCC Place, BHISHMA PITAMAH MARG, NEW DELHI - 110 003

Place: - New Delhi

Date: - 02.12.2006



300300

12.06/Am Conf
4-12-06



ICICI/ND/NBCC/TFO/2006-07/BG CONFIRMATION

To

The CGM(NS-I)/GM (N-II)
North South Corridor Division
National Highways Authority of India
G-5 & 6, Sector - 10, Dwarka,
New Delhi - 110075

Sub: Confirmation for issuance of Bank Guarantee Reference no. 0007BG00128506 Dated 03-08-2006 and amendment dated 29-11-2006 Issued on Behalf of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favor of National Highways Authority of India.

Your Ref No: NHA/PH-I/NHDP/BOT(Annuity)/GM(N-II)/MP-UP/NS-I/2006/1111 Dated 01.12.2006

I, Praveen Yadav, Manager, Specimen code No. Y-22 having its office at ICICI BANK LIMITED, NBCC Place, BHISHMA PITAMAH MARG, NEW DELHI - 110 003 hereby confirm that the bank Guarantee as per the particulars given below has been issued by branch having its office at ICICI BANK LIMITED Corporate & Institutional Banking Division, 9A, Connaught Place, New Delhi - 110001 at the request of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favour of National Highways Authority of India.

Bank Guarantee no. 0007BG00128506
Valid From: - 03-08-2006
Valid up to: - 01-10-2007

Amount Guaranteed Rs.2,58,00,000.00 (Rupees Two Crores Fifty Eight Lacs Only).

Issuing Branch postal Address : - CIBD, 9A, Connaught Place, New Delhi - 110001

Telephone No: 011-66310400
Fax No: - 011-66310410
Email ID: - ndcibdtf@icicibank.com

(Seal & Signature)

Name in Block Capital Letters:- PRAVEEN YADAV

Designation: - MANAGER

ID Code of Officer : - Y-22

Address: - ICICI BANK LIMITED, NBCC Place, BHISHMA PITAMAH MARG, NEW DELHI - 110 003

Place: - New Delhi

Date: - 02.12.2006



300301

ICICI Bank Limited

ICICI Bank Towers, NBCC Place,
Bhishma Pitamah Marg,
Pragati Vihar.

Tel. (+91-11) 2439 0000

Reg. Off: "Sunder Ark", Race Course Circle,
Mumbai - 400 007, India.
Off. Of: "Sunder Ark", Race Course Circle,



4-12-06
7/11/06
ICICI/ND/NBCC/TFO/2006-07/BG CONFIRMATION

To

The CGM(NS-I)/GM (N-II)
North South Corridor Division
National Highways Authority of India
G-5 & 6, Sector - 10, Dwarka,
New Delhi - 110075

Manager, C&E
(N)
9/12

Sub: Confirmation for issuance of Bank Guarantee Reference no. 0007BG00128406 Dated 03-08-2006 and amendment dated 29-11-2006 Issued on Behalf of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favor of National Highways Authority of India.

Your Ref No: NHA/PH-IV/NHDP/BOT(Annuity)/GM(N-II)/MP-JP/NS-I/2006/1111 Dated 01.12.2006

I, Praveen Yadav, Manager, Specimen code No. Y-22 having its office at ICICI BANK LIMITED, NBCC Place, BHISHMA PITAMAH MARG, NEW DELHI - 110 003 hereby confirm that the bank Guarantee as per the particulars given below has been issued by branch having its office at ICICI BANK LIMITED Corporate & Institutional Banking Division, 9A, Connaught Place, New Delhi - 110001 at the request of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favour of National Highways Authority of India.

Bank Guarantee no. 0007BG00128406

Valid From: - 03-08-2006

Valid up to: - 01-10-2007

Amount Guaranteed Rs.9, 50,00,000.00 (Rupees Nine Corers Fifty Lacs Only).

Issuing Branch postal Address : - CIBD, 9A, Connaught Place, New Delhi - 110001

Telephone No: 011-42218342

Fax No: - 011-24390070

Email ID: - ndcibdtf@icicibank.com

(Seal & Signature)

Name in Block Capital Letters:- PRAVEEN YADAV

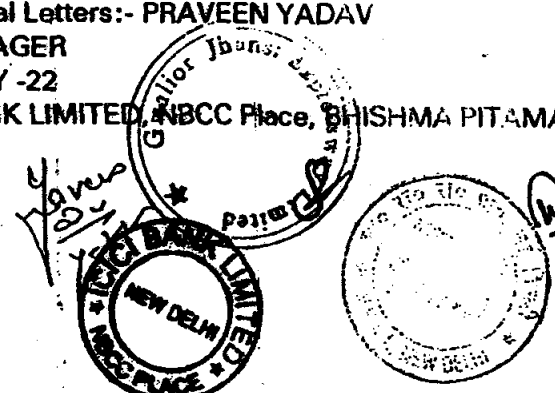
Designation: - MANAGER

ID Code of Officer : Y-22

Address: - ICICI BANK LIMITED, NBCC Place, BHISHMA PITAMAH MARG, NEW DELHI - 110 003

Place: - New Delhi

Date: - 02.12.2006



300302

1203/4m CIBD
4-12-08



ICICI/ND/CIBD/TFO/2006-07/BG CONFIRMATION

To

The CGM(NS-I)/GM (N-II)
North South Corridor Division
National Highways Authority of India
G-5 & 6, Sector - 10, Dwarka,
New Delhi - 110075

Sub: Confirmation for issuance of Bank Guarantee Reference no. 0007BG00128506 Dated 03-08-2006 and amendment dated 29-11-2006 Issued on Behalf of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favor of National Highways Authority of India.

Your Ref No: NHAI/PH-II/NHDP/BOT(Annuity)/GM(N-II)/MP-UP/NS-I/2006/1111 Dated 01.12.2006

I, Dhiraj Trivedi, Manager, Specimen code No. T-111 having its office at ICICI BANK LIMITED Corporate & Institutional Banking Division, 9A, Connaught Place, New Delhi - 110001 hereby confirm that the bank Guarantee as per the particulars given below has been issued by this branch at the request of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favour of National Highways Authority of India.

Bank Guarantee no. 0007BG00128506

Valid From: - 03-08-2006

Valid up to: - 01-10-2007

Amount Guaranteed Rs.2,58,00,000.00 (Rupees Two Crores Fifty Eight Lac: Only).

Issuing Branch postal Address: - CIBD, 9A, Connaught Place, New Delhi - 110001

Telephone No: 011-66310400

Fax No: - 011-66310410

Email ID: - ndcibdtf@icicibank.com

(Seal & Signature)

Name in Block Capital Letters: - DHIRAJ TRIVEDI

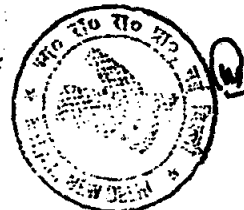
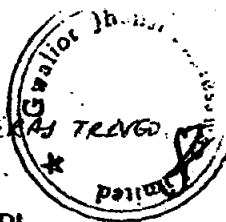
Designation: - MANAGER

ID Code of Officer: -

Address: - DHIRAJ TRIVEDI
Manager T-111

Place: - New Delhi

Date: - 02.12.2006



ICICI Bank Limited
Corporate & Institutional
Banking Division
9A, Connaught Place
New Delhi - 110 001 India
CIBD Extension Counter : 17-18, Indraprastha Bhawan, Azad Park, New Delhi (Azadpur)

Tel : (+91-11) 66310400

Fax : (+91-11) 66310410

Website : www.icicibank.com

Regd. Office : 'Landmark' Race Course Cl

Alkapuri, Vadodra - 390007, India

Tel : (+91-265) 339 123-24 Fax: (+91-265) :

300303



ICICI/ND/CIBD/TFO/2006-07/BG CONFIRMATION

To

The CGM(NS-I)/GM (N-II)
North South Corridor Division
National Highways Authority of India
G-5 & 6. Sector - 10, Dwarka,
New Delhi - 110075

Sub: Confirmation for issuance of Bank Guarantee Reference no. 0007BG00128606 Dated 03-08-2006 and amendment dated 29-11-2006 Issued on Behalf of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favour of National Highways Authority of India.

Your Ref No: NHAI/PH-II/NHDP/BOT(Annuity)/GM(N-II)/MP-UP/NS-I/2006/1111 Dated 01.12.2006

I, Dhiraj Trivedi, Manager, Specimen code No. T-111 having its office at ICICI BANK LIMITED Corporate & Institutional Banking Division, 9A, Connaught Place, New Delhi - 110001 hereby confirm that the bank Guarantee as per the particulars given below has been issued by this branch at the request of DSC Apollo consortium through its SPV Gwalior Jhansi Expressways Limited in favour of National Highways Authority of India.

Bank Guarantee no. 0007BG00128606

Valid From: - 03-08-2006

Valid up to: - 01-04-2010

Amount Guaranteed Rs.18,12,00,000.00 (Rupees Eighteen Corors Twelve Lacs Only).

Issuing Branch postal Address : - CIBD, 9A, Connaught Place, New Delhi - 110001

Telephone No: 011-66310400

Fax No: - 011-66310410

Email ID: - ndcibdtf@icicibank.com

(Seal & Signature)

Name in Block Capital Letters: - DHIRAJ TRIVEDI

Designation: - MANAGER

ID Code of Officer : -

Address: -

DHIRAJ TRIVEDI
Manager T-111

Place: - New Delhi

Date: - 02.12.2006

ICICI Bank Limited
Corporate & Institutional
Banking Division
9A, Connaught Place
New Delhi - 110 001 India
CIBD Extension Counter : 17-18, Indraprastha Bhawan, Anandpur, New Delhi - 110002

Tel : (+91-11) 66310400

Fax : (+91-11) 66310410

Website : www.icicibank.com

Regd. Office : 'Laxmi' Race Course Circle

Alkapuri, Vadodra - 390007, India

Tel : (+91-265) 339023-24 Fax : (+91-265) 339025

900304

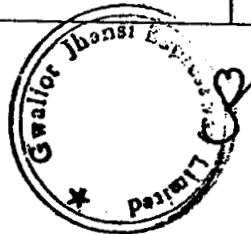
SCHEDULE G
Annuity Payment Schedule

SCHEDULE - G

ANNUITY PAYMENT SCHEDULE

Date of Signing of Agreement 07th December, 2006
Commencement Date 05th June 2007
Construction Period 30 Months
Scheduled Project Completion Date 04th December, 2009

SL. NO	Annuty Payment Date	Annuty Payment (Rs.Crores)
1	3-June-2010	52.29
2	2-December-2010	52.29
3	3-June-2011	52.29
4	2-December-2011	52.29
5	3-June-2012	52.29
6	2-December-2012	52.29
7	3-June-2013	52.29
8	2-December-2013	52.29
9	3-June-2014	52.29
10	2-December-2014	52.29
11	3-June-2015	52.29
12	2-December-2015	52.29
13	3-June-2016	52.29
14	2-December-2016	52.29
15	3-June-2017	52.29
16	2-December-2017	52.29
17	3-June-2018	52.29
18	2-December-2018	52.29
19	3-June-2019	52.29
20	2-December-2019	52.29
21	3-June-2020	52.29
22	2-December-2020	52.29
23	3-June-2021	52.29
24	2-December-2021	52.29
25	3-June-2022	52.29
26	2-December-2022	52.29
27	3-June-2023	52.29
28	2-December-2023	52.29
29	3-June-2024	52.29
30	2-December-2024	52.29
31	3-June-2025	52.29
32	2-December-2025	52.29
33	3-June-2026	52.29
34	2-December-2026	52.29
35	3-June-2027	52.29



300305

SCHEDULE H

Project Completion Schedule

SCHEDULE H**I. PROJECT COMPLETION SCHEDULE**

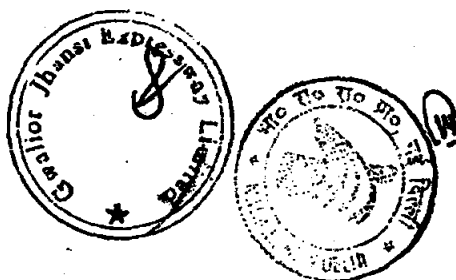
S. No.	Activities	Completion Period (from the Commencement Date)
1.	Completion of Project Road from Km 16.000 to Km 96.127 on NH-75 in the State of Madhya Pradesh	30 months

II. SITE HANDING OVER SCHEDULE

The site shall be handed over as below from Commencement Date:

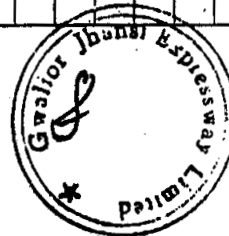
Stretch	Length	Remarks
(Refer Design Chainage) Existing ROW	82.500 Km	Within One month
Additional Land wherever required for the Project Highway including Land for Base Camp etc.	-	Within 12 months

Note: The above Handing over Schedule is subject to accomplishment of all type of obligations of the Concessionaire as mentioned in the Request for Proposal (RFP) Document.



III. PROJECT MILESTONES

S. No.	Project Mile Stone	Months																									
		1	2	3	4	5	6	7	8	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Preconstruction Activities																											
1	Achievement of Financial Closure																										
2	Project Design																										
3	Handing Over the site to the Concessionaire																										
4	Mobilisation at site by concessionaire																										
5	Shifting of utilities including tree cutting																										
Construction Activities																											
6	Bridges and CD Structures																										
7	ROB, Underpass & Grade Separator																										
8	New Carriageway																										
9	Existing Carriageway																										
10	Toll Plaza and Administrative Blocks																										
11	Safety Features																										
12	C.O.D.																										



SCHEDULE I
Drawings

SCHEDULE-I

DRAWINGS

1. The Project Highway drawings, as defined in Clause 1.1, Definitions, Article I, Definition And Interpretation, Chapter I - Preliminary, of the Concession Agreement shall consist:

A. Working drawings of all the components/elements of the Project Highway as Determined by Independent Consultant/NHA, and

B. As-Built drawings for the Project Highway components/elements as determined by Independent Consultant/NHA.

As-Built drawings shall be duly certified by the Independent Consultant.

2. Annexure "A" of this schedule gives the list of drawings (only drawing as defined in Dictionary) of the main components/elements of the Project Highway required to be submitted by the Concessionaire.



Annexure A

**LIST OF DRAWINGS TO BE SUBMITTED BY CONCESSIONAIRE SHOULD
INCLUDE BUT NOT BE LIMITED TO:**

- a) Drawings of horizontal alignment, vertical profile and cross-sections.
- b) Drawings of interchanges, major intersections and grade separators.
- c) General arrangement drawings of toll plaza layout, toll collection system and roadway near toll plaza.
- d) Drawings of Administrative Base Camps and Control Centre.
- e) Drawing of a bus-bay and bus shelters with furniture and drainage system.
- f) Drawing of a truck parking laybye with furniture and drainage system.
- g) Drawings of road furniture items including traffic signage, markings, safety barriers etc.
- h) Drawing of traffic diversion plans and traffic control measures.
- i) Drawings of road drainage measures.
- j) Drawings of typical details of slope protection measures.
- k) Drawings of landscaping and horticulture.
- l) Drawings of Pedestrian Crossings.
- m) Drawings of Street Lighting.
- n) Drawings of general arrangement of cross-drainage works.
- o) Layout/ Configuration of HTMS.

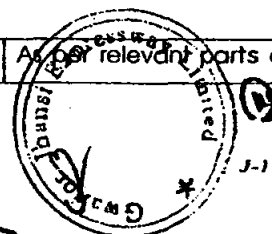


SCHEDULE J
Test to be Conducted

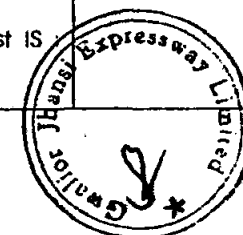
SCHEDULE-J
TESTS TO BE CONDUCTED

During the Construction Period, the Concessionaire shall carry out the Tests and Independent Consultant will carry out quality audit of the tests carried out by the Concessionaire. Independent Consultant may carry out more tests as per a pre-determined programme. These tests and quality audit shall include but not be limited to the following:

Sl.No.	Item	Test	Testing Procedure
1.0	Earth Work for Embankment, Subgrade construction and cut formation		
1.1	Embankment and subgrade borrow materials	Quality Audit of the following tests performed during construction for soil type, density, moisture content and CBR as required by Ministry of Surface Transport specifications for Road and Bridge works. <ul style="list-style-type: none"> Moisture Content test as per IS : 2720 (Part 2) Sand Content Test according to IS : 2720 (Part 4) Plasticity Characteristics of soils according to IS : 2720 (Part 5) Moisture Content-Dry Density relationship using heavy compaction according to IS: 2720 Part 8. Determination of total soluble sulphate content as per IS : 2720 Part 37 IS : 2720 (Part 40): Determination of Free Swelling Index of solutions 	As per relevant parts of IS - 2720
1.2	Compaction	Quality Audit of the following Tests performed during construction as required by MORT&H specifications for Road and Bridge works. <ul style="list-style-type: none"> Compaction density and Determination of dry density of soils in place according to IS-2720, Part 28 by the Sand Replacement Method 	As per IS-2720, Part 28
2.0	Pavement Structure		
2.1	Granular Sub	Quality Audit of quality control tests on soils,	As per relevant parts of IS -



	base and base courses	<p>aggregate and moisture content - density tests and CBR tests as required by MORT&H specifications for Road and Bridge works.</p> <ul style="list-style-type: none"> • Plasticity Characteristics of soils according to IS : 2720 Part 5 • Dry density of soils in place according to IS : 2720 Part 28 • Determination of total soluble sulphate content as per IS : 2720 Part 37 • CBR test as per IS : 2720, Part 16 • Dry density-moisture content relationship as per IS: 2720 Part 8 • Aggregate grading as per Job Mix Formula • Aggregate Impact value as per IS: 2386 (Part 4) or IS : 5640 • Particle size and shape as per IS : 2386 (Part I) 	2720, IS 2386 and IS 5640
2.2	Bituminous base and wearing courses	<p>Quality Audit of quality control tests on aggregates and bitumen and on bituminous mixes as laid down in clause 903.4 of MORT&H specifications for Road and Bridge works.</p> <ul style="list-style-type: none"> • Aggregate Impact Value as per IS2386 (Part 4) • Particle size and shape as per IS : 2386 (Part I) • Stripping value test as per AASHTO T182 • Water absorption as per IS : 2386 (Part 3) • Soundness Test as per IS : 2386 Part 5 • Marshall stability test as per ASTM D-1559 	As specified in the codes IS 2386, parts 1,3,4 and 5, AASHTO T182 and ASTM D-1559
2.3	Cement concrete Pavement	<p>Quality audit of sampling and testing of cubes and beams for strength of concrete and quality control tests on aggregates</p> <ul style="list-style-type: none"> • Aggregate Impact Value as per IS : 2386 (Part 4) • Soundness Test as per IS: 2386 (Part 5) • Alkali Aggregate Reactivity IS : 2386 (Part 7) • Strength of Concrete (Tests on Cubes and beams) as per IS : 516 • Workability of fresh Concrete - Slump Test IS 1199 	As per relevant parts of IS 2386, IS 516 and IS1199

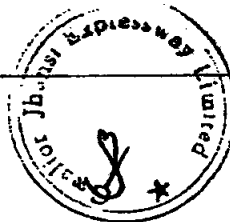


2.4	Riding Quality of Surface	Checking International Roughness index of the finished pavement surface for compliance with the requirement stated in clause 2.5.7 of Schedule D.	Roughness measurement by bump integrator (Annexure A) or an equivalent device approved by NHAI/IC
3.0	Bridges		
3.1	Cement, aggregate, reinforcement pre-stressing steel and Concrete	Tests and Standards of Acceptance as per MORT&H Specifications of Tests performed during construction	The Auditing shall be carried out in accordance with the IRC special publication on Quality Assurance
3.2	Superstructure	Static load testing of any one span of the structure for carrying design load as per IRC SP 37-1991	Test shall be carried out in accordance with Annexure B
3.3	Bearings	Checking and verification of the bearings to ascertain proper functioning as per MORT&H Specifications.	The inspection shall be carried out in accordance with requirement laid in MORT&H specifications for Road and Bridge works and shall meet the prescribed criteria.
3.4	Expansion Joints	Checking and verification of the Expansion joints to ascertain proper functioning as per MORT&H Specifications	The inspection shall be carried out in accordance with requirement laid in MORT&H specifications for Road and Bridge works and shall meet the prescribed criteria.
3.5	Foundation & Substructure	Checking and verification of the Foundation settlement and rotation	The settlement of foundation for superstructure load at completion shall be measured with reference to a fixed datum. (For this purpose, the records of measurements taken before the superstructure concreting should also



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			be available.)
4.0	Highway Lighting System	Level of Illumination	The Illumination level shall be measured with luxmeter following the method as specified in its manual (Annexure C).
5.0	Traffic Signals	Test in accordance with the relevant clauses of IRC:93 and IS 7537	Meet the prescribed criteria in IRC 93 and IS 7537
6.0	Toll System Operations	1. Certified report of Factory Acceptance test (FAT) 2. Post installation site test to conform to the functionality and specifications of the contract	Real time test for individual functionality of each component which should conform both specifications / codes stipulated in the country of manufacture. It should include manual operations in case of no power
7.0	Rest Area Operations	Test in accordance with the functioning of facilities built in RAO	Standard building safety procedures as presented by NBC
8.0	Emergency Telephone System	Independent Systems to be developed to operate on the Project site	Real time test to be carried out to conform to the designed system.
9.0	Traffic Signage and Pavement Marking	Tests in accordance with ASTM standard E:810 relevant clauses of section 800 of MORT&H specifications for Road and Bridge works published by IRC 1997	To follow ASTM Standard E:810 as per section 800 of MORT&H specifications for Road and Bridge Works published by IRC 1997

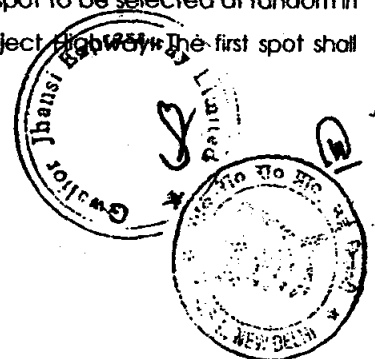


1 Schedule for Tests

- 1.1 The Concessionaire shall, not later than 30 (thirty) days prior to the likely completion of (Four-Lanning), notify the Independent Consultant and NHA of its intent to subject the Project Highway to Tests, and not later than 10 (ten) days prior to the actual date of Tests, furnish to the Independent Consultant and NHA a detailed inventory and particulars of all works and equipment forming part of (Four-Lanning).
- 1.2 The Concessionaire shall notify the Independent Consultant of its readiness to subject the Project Highway to Tests at any time after 10 (ten) days from the date of such notice, and upon receipt of such notice, the Independent Consultant shall, in consultation with the Concessionaire, determine the date and time for each Test and notify the same to NHA who may designate its representative to witness the Tests. The Independent Consultant shall thereupon conduct the Tests itself or cause any of the Tests to be conducted in accordance with Article 16 and this Schedule-J.

2 Tests

- 2.1 Visual and physical Tests: The Independent Consultant shall conduct a visual and physical check of (Four-Lanning) to determine that all works and equipment forming part thereof conform to the provisions of this Agreement.
- 2.2 Test Drive: The Independent Consultant shall take test drive of the Project Highway by a Car and a fully loaded Truck to determine that the quality of service conforms to the provisions of this Agreement.
- 2.3 Riding quality Test: Riding quality of each lane of the carriageway shall be checked with the help of a calibrated bump integrator as mentioned at annexure A of this Schedule.
- 2.4 Pavement Composition Test: The thickness and composition of the pavement structure shall be checked on a sample basis by digging pits to determine conformity of such pavement structure with Specifications and Standards. The sample shall consist of one pit in each direction of travel to be chosen at random in each stretch of 5 (five) kilometers of the Project Highway. The first pit for the sample shall be selected by the Independent Consultant through an open draw of lots and every fifth kilometer from such first pit shall form part of the sample for this pavement quality Test.
- 2.5 Cross-section Test: The cross-sections of the Project Highway shall be checked on a sample basis through physical measurements of their dimensions for determining the conformity thereof with Specifications and Standards. For the road portion, the sample shall consist of one spot to be selected at random in each stretch of 1 (one) kilometer of the Project Highway. The first spot shall

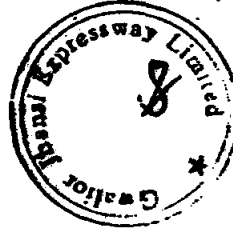


form part of the sample shall be selected by the Independent Consultant through an open draw of lots and the spots located at every one kilometer from such first spot shall form part of the sample. For the bridge portion, one spot shall be selected at random by the Independent Consultant in each span of the bridge.

- 2.6 Structural Test for bridges: All major and minor bridges constructed by the Concessionaire shall be subjected to the Rebound Hammer and Ultrasonic Pulse Velocity tests, to be conducted in accordance with the procedure described in Special Report No. 17: 1996 of the IRC Highway Research Board on Non-destructive Testing Techniques, at two spots in every span, to be chosen random by the Independent Consultant.
- 2.7 Environmental audit: The Independent Consultant shall carry out a check to determine conformity of the Project Highway with the environmental requirements set forth in Applicable Laws and Applicable Permits.
- 2.8 Safety Review: Safety audit of the Project Highway shall have been undertaken by the Safety Consultant as set forth in Schedule-L and on the basis of such audit, the Independent Consultant shall determine conformity of the Project Highway with the provisions of this Agreement.

3 Completion/Provisional Certificate

Upon successful completion of Tests, the Independent Consultant shall issue the Completion Certificate or the Provisional Certificate, as the case may be, in accordance with the provisions of Article 16.4.



Annexure-A

TEST PROCEDURE FOR MEASURING ROUGHNESS INDEX OF THE RIDING SURFACE OF A FLEXIBLE PAVEMENT

EQUIPMENT – Bump Integrator Fitted in a Vehicle

Test Procedure:

The following test procedure shall be adopted for the test

- 1) Check that the installation and operation of the equipment is in order and meets the requirements prescribed in its operational manual. The tyre pressure of wheels should be as prescribed.
- 2) The instrument shall be calibrated prior to its use for measurement as prescribed in its operational manual.
- 3) The operators shall familiarise themselves with the Bump Integrator & other equipment associated with its operation using its Test Mode before commencing a survey.
- 4) Generally a speed varying between 30 km./hour-40 Km/hour shall be maintained during measurements. The readings shall be taken for each carriageway independently.
- 5) The equipment shall run on a lane in both the directions once and the average of two values taken for its roughness index.
- 6) Pavement unevenness/roughness of 2/3 lane carriageway shall be obtained from the average of the values of the 2/3 lanes recorded.
- 7) The roughness index value is obtained by using the internationally accepted software associated with the equipment from the measured Bumps.
- 8) All data shall be properly recorded with appropriate referencing and stored in a prescribed manner as in the operational manual.
- 9) The roughness measurements shall be properly calibrated using the procedure recommended in the World Bank Technical Publication No. 46.



Annexure-B

LOAD TESTING OF A BRIDGE SUPERSTRUCTURE

The load test shall be carried out to check and establish the serviceability and working strength of the superstructure.

1.0 Test Load

The "Test Load" is the equivalent static load equal to the impacted working design Live Load (applied in addition to all dead loads) placed for maximum effect (bending moment, shear, deflection, etc. as the case may be) and applied either through an appropriate test loading truck or through loading platforms resting on tyre-contact area plates simulating the actual areas of wheels.

2.0 Load Application and Testing Procedure

- I. Fix deflection gauges (supported on unyielding supports) under the superstructure, just touching its soffit, at the pre-marked critical 'points'.
- II. Apply the test load in five equal increments (including the weight of platforms of trucks in the first increment), allowing about two hours in between completion of one load increment and commencement of the next. About an hour after completing a load increment, note the deflections and any crack patterns together with maximum crack widths.
- III. After measuring the deflections, etc. one hour after applying the fifth increment, i.e. the final load increment, keep the test load maintained for about 24 hours and again measure the deflections and crack widths (if any)
- IV. Remove the test load in five equal decrements, allowing about two hours in-between completion of one load decrement and commencement of the next. Note the deflections and crack widths (if any) at the end of each load decrement.
- V. Note the deflection and crack widths (if any) 24 hours after removal of the test load in order to see whether the recovery is complete or there is any residual deflection, etc.



3.0 Acceptance Criteria

- I. Increase and decrease in deflections at a point shall follow a linear relation, with actual deflections not exceeding the theoretically estimated ones by more than 10%;
- II. The maximum crack width in reinforced concrete shall not exceed 0.25 mm to 0.30 mm (but no cracks in case of prestressed concrete);
- III. The deflections at the end of the 24 hours of maintaining the test load shall not exceed the corresponding values at the start of this 24-hour period by 5% and
- IV. The residual deflection at any point 24 hours after complete unloading shall not exceed 10% of the maximum observed deflection at that point (i.e. recovery: 90% or more);

4.0 Observation

The cracks in reinforced concrete shall close upon removal of test load but may not completely disappear.



Annexure-C

Testing Procedure for Illumination intensity by Luxmeter

Instrument: Luxmeter (make of renowned company)

Basis: Comparison with a calibrated Luxmeter through a standard lamp by renowned Photometric Lab.

Test Procedure:

Following steps shall be taken for the test

- Calibration of the luxmeter.
- Put off the lights to be tested.
- Take calibrated luxmeter reading.
- Put on the lights in the area to be tested
- Observe the luxmeter reading
- Difference (positive or negative) in addition with standard light luminance level will give the actual luminance of existing lighting system.

Note: The testing procedure shall be as per the Manual of the Luxmeter used.



SCHEDULE K
Completion Certificate

SCHEDULE - K

COMPLETION CERTIFICATE

(In case the Completion Certificate is being issued without the Provisional Certificate already being issued.)

I/We, (Name of Independent Consultant) acting as Independent Consultant on the Project "Design, Construction, Development, Finance, Operation and Maintenance of Km..... to Km....., in the state of (Name of the state), India on BOT (Annuity) basis" through the Concessionaire, (Name of Concessionaire) hereby issue this Completion Certificate in-terms of sub-clause 16.4 of Concession Agreement since the said Project has been completed and successfully tested as per Schedule 'J' as stipulated in the said Concession Agreement and is ready for commissioning of traffic commercially as provided in the Concession Agreement dated (Date of Agreement) between the said Concessionaire and the NHAI. The date of issue of this Completion Certificate shall be the COD, as defined in the said Concession Agreement.

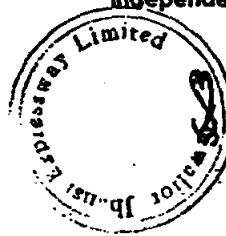
(In case the Completion Certificate is being issued with the Provisional Certificate already issued.)

I/We, (Name of Independent Consultant) acting as Independent Consultant on the Project "Design, Construction, Development, Finance, Operation and Maintenance of Km..... to Km....., in the State of (Name of the state), India on BOT (Annuity) basis" through the Concessionaire, (Name of Concessionaire) hereby issue this Completion Certificate in-terms of sub-clause 16.4 of Concession Agreement since the said Project has been completed and successfully tested as per Schedule 'J' as stipulated in the said Concession Agreement and all the Punch List Items as mentioned in the Provisional Completion Certificate issued oncompleted as provided in the Concession Agreement dated (Date of Agreement) between the said Concessionaire and the NHAI.

Dated _____
(Date of Issue)

Team Leader

Authorised Representative of the
Independent Consultant



RFP BOT (Annuity) NS I/BOT/MP-UP

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SCHEDULE - K,

PROVISIONAL COMPLETION CERTIFICATE

I/We (Name of Independent Consultant) acting as Independent Consultant on the Project, ""Design, Construction, Development, Finance, Operation and Maintenance of Km..... to Km....., in the state of (Name of the state), India on BOT (Annuity) basis" through the Concessionaire, (Name of Concessionaire) hereby issue this Provisional Certificate of Completion in-terms of sub-clause 16.5 of Concession Agreement dated (Date of Agreement), between the said Concessionaire and the NHAI, on the request of the said Concessionaire subject to the appended Punch List containing a list of outstanding items since the tests stipulated in Schedule 'J' have been successfully carried-out and all parts of Project Highway can be legally, safely and reliably placed in commercial operations though certain works and things forming part thereof are not yet complete as indicated in the said Punch List. All the items of the said Punch List shall be completed by the said Concessionaire with in 120 (one hundred and twenty) days of the date of issue of this Provisional Certificate of Completion. The date of issue of this Provisional Completion Certificate shall be the COD, as defined in the said Concession Agreement.

Dated _____

(Date of Issue)

Team Leader_____
Authorised Representative of the
Independent Consultant

SCHEDULE L
Operation and Maintenance
Requirements

SCHEDULE-L
OPERATION AND MAINTENANCE REQUIREMENTS

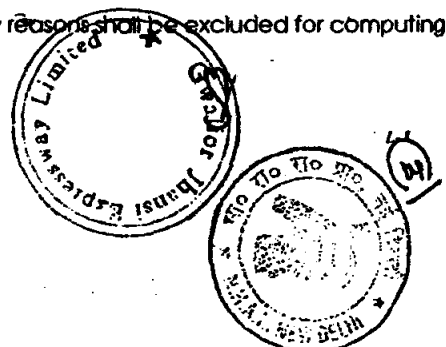
1. Introduction

The Concession Agreement stipulates that length of Project Highway shall be constructed, operated and maintained during the Concession Period by the Concessionaire in accordance with scope defined in Schedules B & C and thereafter transferred to National Highways Authority of India (NHAI). In addition, the Concessionaire is also responsible for improvement and operation and maintenance of the Additional Highway considered for the Annuity package as mentioned in Schedule A. This Schedule elaborates the operation and maintenance requirements of the Concession and is to be read together with the Concession Agreement for this purpose. For clarification of doubt, the period during which the Concessionaire shall comply with the O&M requirements covers the entire Concession Period including the Construction Period. In particular, during the Construction Period, the Concessionaire is required to operate and maintain the existing two lanes as provided in the Concession Agreement and this Schedule. The Concessionaire shall operate and maintain the Project Highway such that during the Construction Period, the two existing lanes are ordinarily open to traffic at all times and from Commercial Operations Date (COD), lane availability at the end of each year of the Concession will be a minimum of 99% on a cumulative basis. For this purpose, lane availability at the end of each year will be computed as follows:

$$(\text{Length in Km} \times \text{no. of lanes} \times \text{number of days since COD}) - S (\text{lane kms closed} \times \text{number of days for which closed}) / (\text{Length in Km} \times \text{no. of lanes} \times \text{number of days since COD})$$

Note:

- In the above formula the lane Km closed does not include the Additional Highway considered for Annuity package if the same has not been completed by the time the Concessionaire completes developments to Project Highway.
- If the Additional Highway considered for Annuity package is completed in all respects and handed over to Concessionaire, the above formula shall include total length of Annuity package from the day of handing over the Additional Highway to the Concessionaire.
- Any Lane closure due to emergency reasons shall be excluded for computing lane availability.



2. Operation and Maintenance (O&M) Requirements

2.1 The Concessionaire shall take all such actions and do all such things (including without limitation, organising itself, adopting measures and standards, executing procedures such as inspection procedures, highway patrols, and engaging and managing contractors, agents and employees) as will secure:

- a) The safety of users of the Project Highway, workers or other persons on the Project Highway and/or facilities thereon;
- b) Unimpaired performance of statutory duties and functions of the NHAI and other Authorities in relation to the Project Highway and/or other adjoining roads and facilities; and, subject to paragraphs a) and b), above, ensure that:

2.1.1. Adequate safety measures, taking into account Schedule 'S', are taken up on the Site during the Construction and Operation periods.

2.1.2. Delay to users of the Project Highway and of adjoining roads or facilities is minimised;

2.1.3. Risk of adverse effects on the environment and on the amenity enjoyed by the owners and occupiers of property and/or land adjacent to the Project Highway, adjoining roads and facilities is minimised;

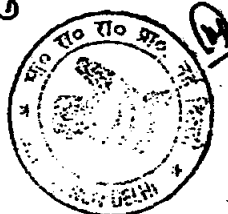
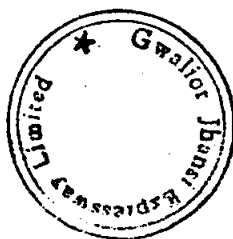
2.1.4. Accidents and emergencies on the Project Highway and facilities thereon are responded to as quickly as possible and their adverse effects minimised;

2.1.5. Risk of disturbance or damage or destruction to property of third party is minimised;

2.1.6. Members of the public are treated with due courtesy and consideration;

2.1.7. Users are given adequate information and forewarning of any event on or any other matter affecting the Project Highway which will enable them to minimise any adverse consequences on them of that event or matter;

2.1.8. Members of the public and others are given adequate opportunity to bring to the attention of the Concessionaire any matters affecting its ability to meet the O&M Requirements;



2.1.9. Traffic data and data relating to the operation and maintenance of the Project Highway and Project Facilities and events on the Project Highway are collected and disseminated such that the NHAI and other persons or bodies with statutory duties or functions in relation to the Project Highway or adjoining roads are able to perform those duties and functions efficiently;

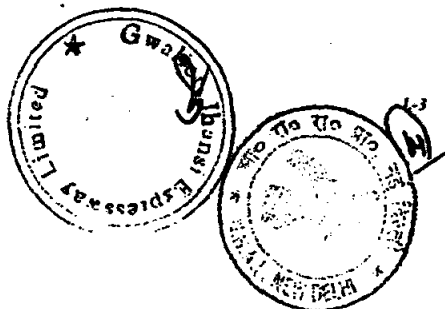
2.1.10. The Project Facilities shall be operated and maintained in order to fulfil the requirements set forth in the Concession Agreement and in this Schedule L:

2.1.11. The Scope for operation and maintenance includes but not limited to following:

- Improvement – this includes improvement in the existing assets as per requirement of this Agreement and safety audit if any in consultation with IC.
- Road maintenance – this includes routine maintenance, major maintenance, periodic preventive maintenance, disaster maintenance and inspections;
- Traffic Management – incident management; enforcement of regulations together with the relevant authorities, hazard response; information gathering and dissemination, road patrols and surveillance;
- Safety – accident prevention; after care; user behaviour; education; enforcement; data collection and analysis.
- Facility management – including periodic inspections, routine maintenance, rehabilitation and expansion planning
- Road property management – management of access, encroachment and ribbon development
- General responsibilities – including budgeting, compliance with legal and accounting requirements, and public relations
- Planning of Operations and Maintenance Centre. – Including the basic planning, comment on the detail design, and design co-ordination.
- Maintaining public relations unit to interface with and attend to suggestions from users of the highway, the media, Govt. agencies and other external agencies.

The broad limit of responsibilities of the Concessionaire shall be as described below:

- (a) In general the limit of the Concessionaire's responsibility is to maintain all areas within the Right-of-Way (RoW) of the Project Highways inclusive of all facilities such as Interchanges.

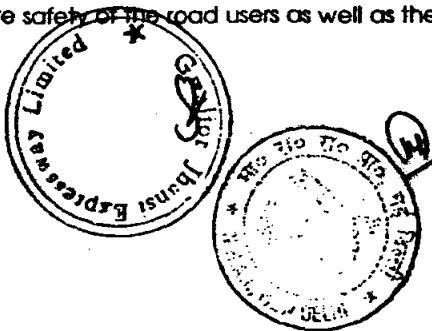


street lighting facilities, traffic light facilities, emergency telephone networks and other facilities constructed by the Concessionaire within the Project Highways.

- (b) Limit of maintenance by the Concessionaire for another road joining or crossing the concession limit, shall be according to the following conditions:
- (i) Where the other road crosses an underpass, the Concessionaire shall be responsible to maintain the crossing structure, viz., culverts, bridges and their abutments and related facilities, such as drainage, turfing, etc. The Concessionaire shall not be responsible for maintenance of the road surface, or the roadside drains of the other roads that are 100m beyond the RoW of Project Highway.
 - (ii) For the road that crosses an overhead bridge, and the bridge is not a part of an interchange, the Concessionaire shall be responsible for maintenance of the surface of the bridge, joints repairs, drainage linked to the bridge and its abutments.
- (c) The Concessionaire shall operate and maintain all the street lighting, traffic light system, structures, roadway surface and the related facilities such as drainage, turfing, etc within the interchanges, and such maintenance shall be extended until the end of the flare and the deceleration and acceleration lanes of the interchanges.
- (d) The Concessionaire shall be responsible for maintaining all cross roads indicated in Schedule B up to a length of 100 meters from the Right-of-Way of the Project Highways, and their flares to junctions at any interchange within the Project Highway, whichever is more.
- (e) For setting out the limit of maintenance for the Concessionaire, National Highways Authority of India shall be responsible for negotiating with the local authorities or where required, with other relevant third parties. The Concessionaire shall maintain all the drainage system within the Right-of-Way including the culvert crossings and the drains. However, the Concessionaire shall not be liable to maintain rivers and the streams under the jurisdiction of Irrigation Department, except when such maintenance is required as a result of exceptional discharge.

2.2. TRAFFIC MANAGEMENT AND LANE CLOSURE

- 2.2.1. Traffic Management during the entire Concession Period is an important activity that the Concessionaire has to attend to ensure safety of the road users as well as the construction



workers simultaneously throughout the concession period. It is an usual activity to carryout various types of construction works at different stages and at different periods as per site requirements. Also, it is a vital activity during unforeseen and/or emergency situations arising on account of natural causes or accidents or administrative reasons.

2.2.2. Traffic Management is required during planned / scheduled construction and maintenance activities. However, traffic management will also be called for during unscheduled activities such as

(i) Emergency situation arising on account of

a) Force Majeure;

b) Accident/Incident on the Project Highway;

(ii) Special repairs required on account of failure of an element of the Project Highway; and

(iii) Default of the Concessionaire with respect to an operational activity on the Project Highway.

2.2.3. The basic principles to be followed for traffic management and lane closure on the Project Highway shall be as follows:

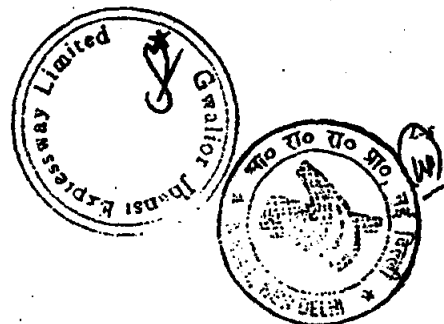
2.2.3.1. Work programme schedule shall be prepared such that diversion roads for the main traffic are minimized. The existing two lane carriageway is utilized to the maximum extent possible.

2.2.3.2. Measures shall be taken that the traffic is guided from a closed lane onto the operating lane without its conflict with the traffic from the opposite direction.

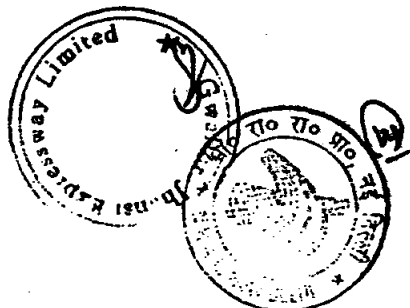
2.2.3.3. The activity of renewal of pavement surface and/or strengthening of the pavement structure shall not be taken up in a continuous length of more than 2 kilometres at a time to avoid long detour of the traffic.

2.2.3.4. The traffic diversion road where provided shall be appropriately designed for the traffic plying on the highway. It shall also be properly maintained during its operation period.

2.2.3.5. During Traffic detour involving traffic diversion adequate safety measures, Schedule 'S' shall be followed.



- 2.2.3.6. Proper and adequate information about the maintenance activity shall be notified to the users of the Project Highway in advance and displayed at the Site during the Operation Period.
- 2.2.4. Traffic Management plan and programme for a planned scheduled construction and/or maintenance activity shall be prepared in advance of that activity keeping 2.2.1 above in view and got approved by the Independent Consultant/NHA as the case may be.
- 2.3. In case of un-scheduled activities, described in 2.2.2 (i) to (iii) above, an emergency traffic management for the affected reach of the highway shall be prepared and implemented in consultation with the Independent Consultant immediately. This emergency traffic management plan shall take into account the various requirements spelt out in the Concession Agreement as well as in this Schedule.
- 2.4. Lane closure is a vital activity during construction and/or maintenance in the Concession Period that the Concessionaire shall carryout in an organized, planned and disciplined manner.
- 2.4.1. Lane Closure involves traffic management in the affected reach of the highway, as such it is always a time bound activity and the Operation and Maintenance Manual incorporates it accordingly. In case where the Concessionaire fails to perform in time, a penalty shall be levied on the Concessionaire for the delay in reopening the closed lane to the traffic in terms of the Concession Agreement.
- 2.4.2. The basic principles to be followed in preparation of a planned lane closure shall be as follows:
- 2.4.2.1. The activity of renewal of pavement surface and/or strengthening of the pavement structure shall be taken up in one lane of the 2/3 lane carriageway so that at least one lane of that carriageway is available to the traffic.
- 2.4.2.2. The activity of renewal or strengthening, Item 2.5.1 below, shall not be carried out in a continuous length of more than 2 km in rural section and 1 km in urban section so that the closure of a lane is not more than 2 days and 1 day in rural and urban sections respectively.



2.4.2.3. Lane closure adopted for diverting the main traffic on account of the traffic management during construction works of the Project Highway shall be governed by the approved programme of Construction Works.

2.4.2.4. Lane Closure in short lengths less than or equal to 500 metres for carrying out a routine maintenance activity defined in item 4.2.1.1 of this Schedule shall not be for more than a continuous period of 1 day.

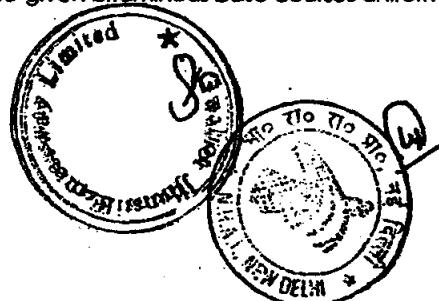
2.4.2.5. The lane closure needed on account of emergency shall be distinguished from the lane closure described in item 2.4.2.3 above. The lane closure on account of the Emergency shall be dealt with under sub clause 18.9, Emergency De-Commissioning, Article XVIII Operation and Maintenance, Chapter IV, Project Development and Operation of this Agreement.

Traffic Management and Lane Closures Requirements during various situations arising on the Project Highway needing Traffic Management are detailed below:

2.5. Initial Construction Stage

2.5.1. Rural Section

- i) The widening of the existing 2 lane carriageway shall be generally eccentric to make a four/six (4/6) lane divided carriageway facility. A new 2/3 lane carriageway separated from the existing carriageway with a 4.5m central median will be constructed in the first instance and then strengthening and widening of existing 2 lane carriageway shall be undertaken.
- ii) The construction sequence in this case will be as under:
 - a) 2/3 new lanes will be constructed initially. There will be no conflict area for the main traffic using the existing two lanes during this construction stage. It shall be ensured that the construction traffic does not conflict with the main traffic in this stage.
 - b) On completion of the 2/3 new lanes throughout, the total traffic will be diverted on it and the existing 2 lanes will be widened with paved shoulders /additional lane with paved shoulder depending upon the new carriageway configuration upto the existing road level. Thereafter, entire width including the existing 2 lanes and the widened portion shall be given bituminous base courses uniformly.



2.5.2. Urban Section

- i) The widening of the existing 2 lane carriageway shall be generally concentric to make it a 4/6 lane divided carriageway facility. The divider will be a 1.5 m wide central median.

In addition, service road will be provided on either side of the 4/6 lane carriageway facility.

- ii) The construction sequence in this case will be as under:

- a) Service roads and side drains on both the sides will be constructed initially.

There will be no conflict area for the main traffic, which will be using the existing two lanes. It will be ensured that the construction traffic does not conflict with the main traffic at exit and entry points.

b) On completion of the service roads on both sides, the main traffic will be diverted on them direction wise and the existing 2 lanes will be widened to 2/3 lanes on each side duly accounting for the 1.5 m wide central median. On completion of the widening upto the existing road level, the median will be constructed. On its completion, the existing road will be strengthened in such a manner that the bituminous base courses and the wearing course layers are laid uniformly in 2/3 lanes and paved shoulder on either side of the 1.5 m wide central median. During this operation, the construction traffic will not be conflicting with the main traffic on the service roads.

- c) On completion of the divided lane carriageway of the Project Highway, the main traffic from the service roads shall be restored on them.

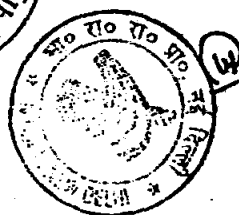
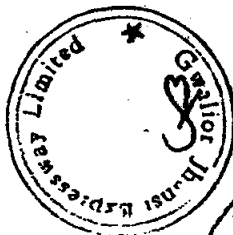
2.6. Operation and Maintenance Stage

- 2.6.1. This is applicable for the entire Operations Period for the Project Highway during the entire Concession Period. Various important activities to be carried out during this stage are:

- a) Regular periodic maintenance activities:

- i) Renewal of the wearing surface of the road pavement once every 5 years;
ii) Strengthening course to be provided on 'as required' basis.

- b) Maintenance activities arising out of the specific need(s) on account of the site conditions are:



- i. Strengthening course required on account of the Benkelman Beam Deflection (B.B.D). values in excess of the prescribed criteria obtained during regular testing as per the Concession Agreement requirement;
- ii. Wearing course required on account of the IRI values higher than the prescribed criteria obtained during regular testing as per the Concession Agreement requirement;
- iii. Localized repairs in short lengths less than 500 m on account of pot holes, cracking, subsidence in isolated spots or in scattered areas.

2.6.2. In order to cater to the execution of the said activities, para 2.6.1 above the main traffic will have to be diverted to an extent dependent on the site requirement.

2.7. EMERGENCY STAGE

2.7.1. This stage could arise any time in an emergency situation and shall have to be addressed to on its own merits. The extent of the traffic management shall be assessed as per the site requirement and situation.

2.7.2. The emergency situation could be faced in the following three situations.

a) During the period between the award of the work and commencement of the construction works on financial close.

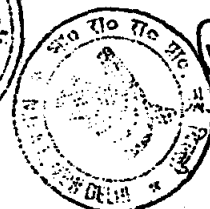
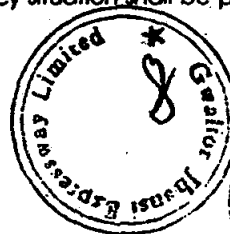
In this situation the existing two lane facility is available only. The traffic management will have to be tailored accordingly. Either the existing one lane will have to be closed passing the traffic on another lane and its adjoining shoulder or both the existing lanes will be closed and a diversion road provided.

b) During the period when construction works are in progress.

In this case the availability of the carriageway at site shall decide the nature and extent of the traffic diversion.

c) During the period when the Project Highway is under operation and/or maintenance, the nature of emergency requirement in this case will determine the type and extent of the traffic diversion.

2.7.3. Traffic Management in emergency situation shall be provided immediately in consultation with the Independent Consultant



3. OPERATIONS

3.1. Introduction

3.1.1 The Concessionaire shall in consultation with the Independent Consultant evolve an Operations and Maintenance Manual (Maintenance Manual) as per sub-clause 18.2 of this Agreement.

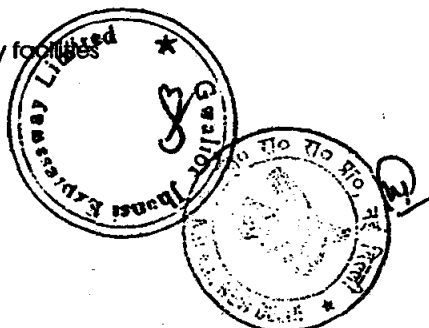
3.1.2 The said Maintenance Manual shall have two separate sections, namely
(i) Section I - Operations; and
(ii) Section II - Maintenance
These are briefly described in items 3.2 and 4 of this Schedule respectively.

3.2. Section I - Operations

It shall prescribe procedures and systems for activities including but not limited to the following for the regular and emergency operations of the Project Highway and Project Facilities thereon.

3.2.1. Regular Operations

- Permitting smooth and uninterrupted flow of traffic during normal operating conditions.
- Functioning of the lighting system;
- Functioning of the Patrolling System
- Functioning of rescue and medical aid services
 - Ambulance
 - Fire Brigade
 - Tow away truck and cranes
- Functioning of the Project Facilities
 - Administrative, Operational and Maintenance Base Camp
 - Rest Areas
 - Truck Parking Laybys
 - Electrical Services at Laybys, Bus Stops and Rest Areas
 - Potable Water supply system including supply of drinking water at truck parking laybys, rest areas etc.
 - Public toilets and other sanitary facilities



- Pickup Bus
- Solid waste disposal system including those from litterbins.

3.2.2. Emergency Operations

Minimising disruption to traffic in the event of accidents and/or incidents affecting the safety and use of the Project Highway by providing a rapid and effective response and maintaining liaison procedures with emergency services.

- Reasonably smooth and safe movement of traffic during emergency activities such as special repairs during floods, storms, hurricanes and earthquakes.
- Failure of a system due to human error, electrical or mechanical failure.

3.3. The Concessionaire shall keep regular record of accidents that occur including the nature of accident, location of occurrence, time and date in the prescribed format, included in the Maintenance Manual and shall forward the monthly particulars of the same to the Independent Consultant and the NHAI regularly in the first week of the following month.

3.4. The Concessionaire shall programme inspections of the Project Highway for its smooth operations in terms of the Concession Agreement classified in the following categories :

- Visual Inspection
- Close Inspection
- Thorough Inspection and described herein under

3.5. Visual Inspection

Visual Inspections are broad general inspections carried out quickly and frequently by highway /bridge maintenance engineers having knowledge of road structures. The purpose of this visual inspection is to report the obstacles to traffic and fairly obvious deficiencies, which could lead to accidents or maintenance problems. Such inspections should be frequent. The visual inspection may be carried out by visual assessment with careful observation of the specific object/item of the Project Highway for identification and for quantification of the deficiencies or damages of the Project Highway.

3.6. Close Inspection

The close inspection may be visual and/or supplemented by standard instrumental aids for assessment of defects / deficiencies of Project Highway with careful observation of specific element(s). The close inspection may be daily / periodic but it is more intensive and would



require detailed examination of elements of the Project Highway. It should cover all the aspects of the specific element of Project Highway against a checklist. The close inspections are to be carried out quite frequently depending upon the nature of structure of Project Highway. This inspection is to be carried out by the Highway/Bridge Engineer having good knowledge of road structures with theoretical background to analyse the nature, and extent of defects/deficiencies, suggest suitable remedial measures to rectify/remedy them and quantify repair work.

3.7. Thorough Inspection

A thorough inspection is comprehensive and detailed for assessment of defects/deficiencies of the Project Highway by visual inspection or with aid of standard equipment and non-destructive testing where necessary. Such an inspection is to be carried out on the basis of comprehensive checklist of items related to the materials, condition and situation of the structure etc. The checklist is to be prepared meticulously well in advance of inspection. The thorough inspection should be undertaken during the most critical weather condition, which is generally rainy season in India. During rainy season the Road/Bridge structures are under severe condition, thereby the damage and deficiencies of the Project Highway are more pronounced. The inspection carried out during the said period offer the most critical evaluation of the performance of the structure.

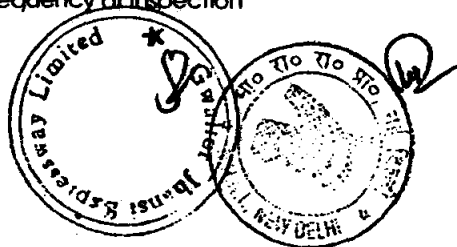
The thorough inspections are all the more important for Bridges, Culverts and drainage structures, as well as road pavements during adverse weather condition of monsoon period.

Besides being a qualified Highway/Bridge engineer; the inspection team leader must be familiar with design and construction features of the Highway /Bridges to be inspected so that the condition can be properly and accurately assessed for a meaningful report and quantification of repair works. The competence of team leader to recognise any structural distress/deficiencies and assess its seriousness with complete recommendation for appropriate repairs are important pre-requisites for entrusting this assignment to him.

3.8. Frequency of Inspections

The inspection frequency of various items of Project highway has been indicated in the Table L-1 hereunder. The frequency of inspection can be suitably revised in consultation with the Independent Consultant if the emergencies so warrant.

Table L-1: Objective and Frequency of Inspection



(The objective and minimum frequency of inspections under normal circumstances shall be as under. If some exigencies arise, the interval of inspection may be reduced)

Table L-1: Objective and Frequency of Inspection

(The objective and minimum frequency of inspections under normal circumstances shall be as under. If some exigencies arise, the interval of inspection may be reduced)

Object	Item	Daily	Monthly	Quarterly	Before & after rainy season
Riding Surface	Pavement	♦	#		•
	Expansion joints	♦	#		•
Median	Kerb	♦	#		•
Side Slopes	Turfing		♦		•
	Pitching & masonry		♦		•
	Retaining wall		#		•
Drainage	Median drain	♦	#		
	Side slope drain	♦	#		
	Bridge catch basin	♦	#		
	Gullies and catch pits	♦	#		
Bridges	Superstructure			#	•
	Substructure			#	•
	Head walls & Aprons			#	•
	Painting				•
	Hand rail		#	•	
Culverts	RC Culverts				•
	HP Culverts				•
Guard rails	Shoulders	♦		#	•
	Medians	♦			•
Traffic Operation facilities	Signs		•		•
	Markings	♦	#		•
	Delineator	♦	#		•
	Lighting	♦		#	•
Other facilities	Vegetation/Landscaping	♦	#	•	
	Way side amenities	♦	#	#	
Traffic Conditions		♦	•	#	
Encroachments		♦	•		



LEGEND

- ♦ Visual inspection
- # Close inspection
- Thorough inspection
- ✦ Visual inspection during rainy season only

4. MAINTENANCE**4.1. Introduction**

4.1.1. The Concessionaire shall maintain the Project Highway in traffic-worthy condition and the Project Facilities in usable condition throughout the Concession Period or any extension thereof in terms of the Concession Agreement through regular maintenance and preventive maintenance of the various items and elements of the Project Highway.

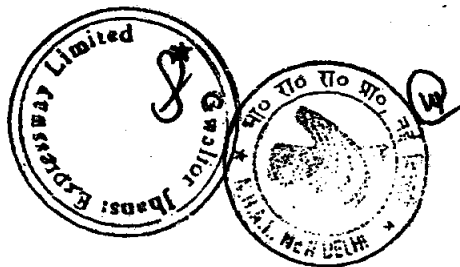
4.1.2. The Concessionaire shall maintain the existing 2/3 lanes of the Project Highway and already constructed 4/6 lanes of the Project Highway during construction of new lanes in such a manner that the unevenness index of the pavement does not exceed 3000 mm per km, or the present roughness value of the existing pavement, whichever is lesser and it is free of pot holes.

4.1.3. The following MORT&H and IRC publications shall be referred for preparation of the said Section - II Maintenance of the "Operation and Maintenance Manual"

- MORT&H Manual for Maintenance of Roads.
- IRC-SP-35-1990, Guidelines for Inspection and Maintenance of Bridges.
- The manufacturer's Maintenance manual(s) of the equipment to be used in the Project Highway Operations shall form part of the said O&M Manual.

4.2. Maintenance Section of Maintenance Manual

The Section II Maintenance, of the Operation and Maintenance Manual, shall include the activities described hereinunder amongst other activities required for the regular and preventive maintenance of the equipment during the Operations Period, so that the Project



Highway is maintained in a manner that at all times it complies with the specifications and standards and at the time of Divestment of Rights and Interests by the Concessionaire in terms of Article XXXIII of this Agreement it is in sound, durable and functional condition.

4.2.1. Regular Maintenance

It consists of the routine maintenance and periodic maintenance throughout the Concession Period and extension thereof, if any, for all elements of the Project Highway.

4.2.1.1 Routine Maintenance

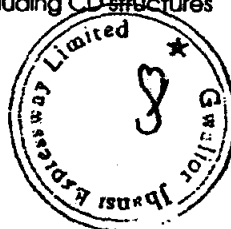
The Concessionaire is required to perform all routine maintenance activities along the project road. The Routine Road Maintenance means planned ongoing works and activities required to ensure public safety, repair small defects and to maintain the road and the entire RoW in the required condition.

The Concessionaire is required to develop maintenance sheets for each component of the works. The Concessionaire has to utilise mechanised equipment, method and innovative solutions and technology to perform these obligations and include such process in the Maintenance Manuals.

All maintenance activities are to be carried out in accordance with relevant IRC Codes, Guidelines and Special Publications as are applicable to National Highways, MORT&H specifications and Technical circulars with all updates. In the absence of any definite provisions on any particular issue related to the specifications and/or standards, reference may be made to the latest codes and specifications of the Bureau of Indian Standards (BIS), AASHTO, ASTM, British Standards or any other International Standards. But where even these are silent, the work shall conform to sound engineering practice with the approval of the IC. The requisite Quality Control Tests as per specifications and codes are to be carried out by the Concessionaire at his cost as per the directions of the IC.

Routine Maintenance broadly includes:

- (i) Maintenance of pavement
- (ii) Maintenance of turfed areas.
- (iii) Maintenance of landscaping
- (iv) Maintenance of drainage system
- (v) General cleaning including CD structures



- (vi) Cleaning, maintenance of buildings within concession limits.
- (vii) Maintenance of main line structures.
- (viii) Maintenance of Right-of-Way fences.
- (ix) Maintenance of Highway Accessories.
- (x) Maintenance of guardrails.
- (xi) Other miscellaneous responsibilities such as stand by/on-call, emergency plant & equipment, stray animal catching operations etc.
- (xii) Provision of traffic and safety control devices during the routine maintenance works or any accidents.

4.3. Periodic Maintenance of Pavement

The framework of activities relating to pavement maintenance and rehabilitation in respect of flexible and rigid pavement are given in the flow charts in Appendix 3.1 and Appendix 3.2 respectively. The Concessionaire shall set forth in the Operations and Maintenance Manual the detailed procedures to be followed under each of these activities, and also choose the operational and performance criteria from the performance standards set forth in this Schedule.

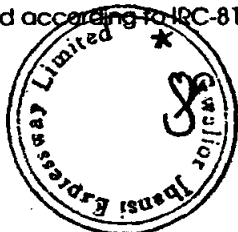
4.3.1. Pavement Riding Quality

The riding quality of the pavement shall be ensured by satisfying the minimum requirements given herein under.

- i) Surface roughness of the Project Highway on completion of construction shall be 2000 mm/km as measured by vehicle mounted Bump Integrator.
- ii) Surface roughness shall not exceed 3000 mm/km during the service life of pavement at any time. A renewal coat of bituminous concrete shall be laid every 5 years after initial construction or where the roughness value reaches 3000 mm/km whichever is earlier. After laying of renewal coat roughness value shall not exceed 2000 mm/km.

4.3.2. Structural Condition of the Pavement

- i) The structural condition of the flexible pavement of the Project Highway shall be assessed every year by taking Benkelman Beam Deflections and working out characteristic deflections of homogeneous sections of the Project Highway as per IRC-81-1997. Wherever the characteristic deflection exceeds 1.2 mm a bituminous overlay shall be provided appropriately designed according to IRC-81-1997 or its latest versions or amendments to it.



II) Recycling of existing crust using milling as an option can be explored by the Concessionaire in consultation with the IC to maintain the FRL at the same level throughout the concession period. However, while adopting such measures, the residual strength of existing pavement shall be estimated and equivalent thickness of new material added before laying the designed overlay. The design of profile with altered pavement treatments shall be finalised in consultation with IC.

III) In the case of cement concrete pavement, joints shall be thoroughly inspected every year and the loss of sealing compounds made good.

4.3.3. Preventive Maintenance

Preventive Maintenance shall include the activities related to each element and the system as a whole of the Project Highway to ensure that during the Concession Period and at its end, it is in sound, durable and functional condition.

4.3.4. Special Repairs

Damages occurring due to natural calamities like heavy floods, sand storms, hurricanes, cyclones, earthquakes to any element or system of the Project Highway, shall be rectified and the system restored to function as per programme prepared in consultation with Independent Consultant. All such activities shall fall under 'Maintenance' and shall form a part of the said Maintenance Manual.

4.4. Minimum Requirements of Maintenance Activities

4.4.1. Major Breaches in the Roadway

Major breaches in the roadway of any type endanger safety of traffic and cause obstruction in movement of vehicles. These breaches shall be repaired urgently. Steps as mentioned in O&M manual shall be followed by the Concessionaire for repairing the breaches.

The Concessionaire shall ensure speedy restoration of traffic and take immediate action to repair the damages as permanent measures for the Project Highway. The restoration of traffic shall be made within 24 hours of its occurrence. The permanent measures shall be completed within a period of one week.



4.4.2. Minor cuts, rutting or blockage

Minor cuts, rutting and damages on Project Highway which do not completely obstruct the traffic but endanger the safety of traffic, shall be attended to on an urgent basis. For this purpose any cut which is in width more than 1 m shall be repaired within 24 hours. Any minor blockage, which partially obstructs the traffic and endangers safety, shall be removed by the Concessionaire immediately.

4.4.3. Branches of trees

The branches of the roadside trees if hanging closer than 5.5m over the road level of the Project Highway shall be cut, trimmed or lopped within 24 hours.

4.4.4. Shoulders

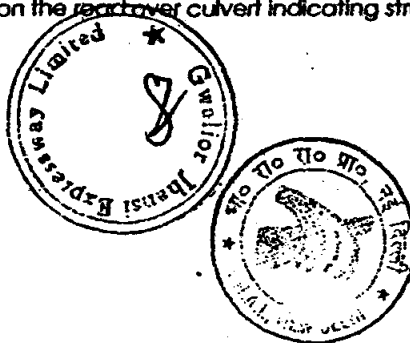
The shoulder (Earthen/Hard) shall be maintained in such a way that the shoulder drop off shall not be more than 25 mm for a length of 10m in a section length of 100m and/or there shall not be any false ditch causing the water to drain in reverse direction i.e. towards pavement instead of away from pavement surface, the same shall be rectified within 2 days as described below:

If the shoulders are deformed or scoured and are lower than 25mm from the adjacent carriageway, these shall be corrected by excavation, filling, dressing and compacting a material matching the existing material and it shall conform to the relevant MORT&H Specifications. In case of earthen shoulder repairs shall be carried out as per MORT&H Specifications 3003.

4.4.5. Drainage / Side Drains.

4.4.5.1. The Concessionaire must ensure that all drainage elements and structures are without any obstructions, which may reduce their normal cross section and impede the free flow of water. They should not have silt more than 25% of their size at any part of length.

4.4.5.2. All the Pipe and Box culverts shall have less than 10% deteriorated barrel and have more than 90% of the diameter/size open. There should be no evidence of flooding with end protection intact and no dip on the road over culvert indicating structural weakness.



4.4.5.3. Routine maintenance under this category shall cover pipe drainage system, slot drains, porous drains, gullies, catch-pits, open grills, ditches, side drains and median drains etc.

4.4.5.4. If the side drains / median drains where provided, and other drainage structures have been silted up in such a manner that it is causing obstruction in flow of water, the same shall be cleared off regularly within 7 days after detection in order to keep the drains free from obstructions all the time.

4.4.5.5. If the drainage system of Project Highway is covered and damaged, it obstructs the flow of water causing damage to the road pavement. Such damaged structures shall be reconstructed to required shape, size and proper slope within 21 days after detection or as instructed by IC.

4.4.6. Cross Drainage Works & Other Structures

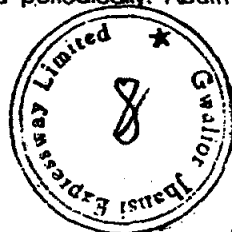
4.4.6.1. The Concessionaire shall set forth in the Operation and Maintenance Manual, the detailed procedures to be followed for the maintenance and repairs of bridges and other structures keeping in view IRC-SP-35: 1990 'Guidelines for the Inspection and Maintenance of Bridges' in consultation with the Independent Consultant. The flow chart for Bridge and Culverts maintenance activities is given in Appendix 3.3.

4.4.6.2. The scouring of piers and abutments of bridges and culverts shall be observed carefully particularly before and after rainy season and suitable remedial measures as deemed fit looking to site conditions shall be taken in consultation with IC.

4.4.6.3. The bridge deck must be clean and have minimal spalls, cracks or scaling. The drains /scuppers on the deck must be clean and functional always.

4.4.6.4. The Super-structure should not have any cracks or loss of section. There should be no spalling and have proper vertical clearance and opening height. Paint on the super structure must be in good shape.

4.4.6.5. The sub-structure should not have spalls, cracks and scaling. The bearing assembly should be functional and lubricated periodically. Abutment /pier seats should be clean and sound.



4.4.6.6. The joints on the structures shall not be loose and should be sealed always.

4.4.6.7. Retaining walls should not have spalling or cracks and its weep holes must be open always. There should be no indication of settlement or rotation.

4.4.6.8. If any settlement cracks are appearing in substructure and superstructure of the CD works beyond permissible limits, the same shall be carefully observed and suitable remedial measures as per sound engineering practice taken.

4.4.6.9. The treatment for the damaged culverts/bridges shall be assessed at site after ascertaining the damaged portion as per site exigencies. The repair shall be carried out expeditiously in consultation with IC.

4.4.7. Pavement

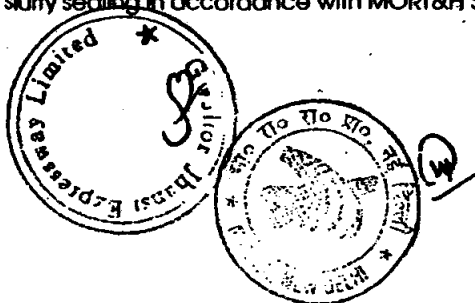
As part of pavement maintenance the pavement shall be treated for various distresses occurring as described below.

4.4.7.1. Cracking

Cracking of bituminous pavements shall include all types of cracks such as hairline, alligator, longitudinal, transverse, shrinkage, reflective and edge cracking, linear and slippage etc. For any 50 m section of the pavement, the cracked area should not be more than 5% of the pavement surface of that section and/or the cracked area shall not exceed 0.5 sq.m at a place. The treatment shall be completely done within 7 days after their detection. The treatment shall be followed as described below:

i. If the width of the cracks is less than 3mm and resulting into settlement of pavement up to 10 mm in depth and exceeding in area more than 0.5 sq.m. at a place, such cracking shall be sealed by fog sealing in accordance with the MORT&H Specification 3004.

ii. If the width of the cracks is more than 3mm and resulting into settlement of pavement up to 10 mm in depth and exceeding in area more than 0.5 sq.m. at a place, such cracked surface shall be repaired by slurry sealing in accordance with MORT&H Specification 516.



iii. If the cracked portion has settled more than 10mm and its area exceeds 0.5 sqm, such areas shall be repaired by patching as per MORT&H Specification 3004.

iv. In case of alligator cracks, the permanent repair by full depth patching shall be carried out. The slippage cracks shall be repaired by removing the affected bituminous layer and replacing it with surface patch. In edge cracking, if shoulders are not providing adequate lateral support, the shoulder shall be reconstructed with good quality materials.

4.4.7.2. Rutting

For any 50 m section of the pavement, there shall not be ruts deeper than 10 mm and/or the length of rutting should not be more than 5m. The treatment shall be completely done within 15 days after their detection. The pavement surface shall be rectified/corrected as per directions laid out in IRC 82-1982 and based on sound engineering practice at such locations.

4.4.7.3. Corrugations and Shoving

If corrugations and shoving in the pavement area exceeds 1 sq. m at any place and depth / height of corrugation / shoving exceeds 10mm, the same shall be rectified/corrected within 2 days after its detection, as per directions laid out in IRC 82-1982 and based on sound engineering practice.

4.4.7.4. Settlement or Grade Depressions

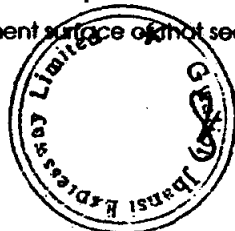
If the settlements and grade depressions exceed 1 sqm in area and their depth is within 10mm, such defects shall be treated within 3 days after detection as per directions laid out in IRC 82-1982 and based on sound engineering practice.

4.4.7.5. Upheaval or Swell

For any 50 m section of the pavement, there shall not be upheaval or swell that exceeds 0.5 sq. m in area; if its height is more than 10mm, the same shall be treated within 7 days after its detection as per as per directions laid out in IRC 82-1982 and based on sound engineering practice.

4.4.7.6. Ravelling

For any 50 m section of the pavement, if the ravelling of bituminous surface is not more than 3% of the pavement surface of that section and/or the ravelled area does not exceed



1 sq.m. at a place, the same shall be rectified within 7 days after their detection by slurry seal treatment in accordance with the MORT&H Specification.

4.4.7.7. Potholes

There shall not be any pothole on the pavement surface. Irrespective of the size and depth, the potholes shall be repaired by patching / pothole filling in accordance with MORT&H Specification 3004. The potholes shall be repaired immediately if causing a threat to safety; other potholes shall be repaired within 24 hours after their detection.

4.4.7.8. Skid Hazards

The skid resistance of the pavement surface shall be maintained in such a way that the skid number is a minimum of 55 when tested as per BS-812 Part 11:ASTM-274. Skid hazards, irrespective of size, shall be corrected by improving the surface drainage and skid resistance including cleaning the surface of contamination, surface treatments or milling or resurfacing.

4.4.7.9. Bleeding or Flushing

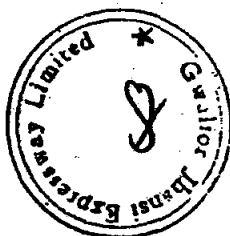
For any 50 m section of the pavement, if the bleeding surface area is not more than 1% of the pavement surface of that section and/or the bleeding surface area does not exceeds 0.25 sq.m. at a place, the same shall be treated immediately within a day after its detection in accordance with IRC:82-1982 or any other relevant guidelines in consultation with the IC.

4.4.7.10. Edge deformation/Breaking

For any 100 m section of the pavement, if the edge breaking is more than 1m and/or the width of edge breaking is more than 0.1m at a place, the same shall be treated immediately within a day after its detection in accordance with IRC:82-1982 or any other relevant guidelines in consultation with the IC.

4.4.7.11. Loss of Cover Aggregate

If the loss of cover aggregate occurs in area exceeding 1 sqm of the pavement, treatment of seal coat shall be applied.



4.4.7.12. Longitudinal / Transverse Streaking

If the longitudinal and transverse streaking appears on the pavement surface in area exceeding 5sqm, the same shall be treated by application of new surface treatment or by a second treatment over the streak surface.

4.4.8. If any defects other than those mentioned above occur on the pavement of the Project Highway, the same shall be rectified/corrected by the Concessionaire as per directions laid out in IRC 82-1982 and based on sound engineering practice.

4.5. Other Maintenance Activities

4.5.1. Maintenance of Traffic Signals

The traffic signals shall be maintained at all times as per clause 18 of IRC: 93 -1985 and shall be periodically inspected, maintained and repaired so as to be in satisfactory working condition all the time.

4.5.2. Maintenance of Highway Lighting System

4.5.2.1. Maintenance of all lighting installations and related appurtenances shall be as per relevant clauses of IS : 1944 (Part I-V) 1981.

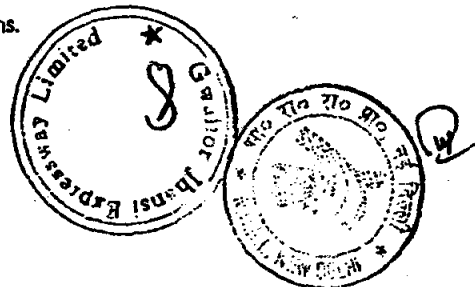
4.5.2.2. Lighting wherever provided shall be maintained by the Concessionaire in a condition nearly similar to original condition.

4.5.2.3. The faults shall be repaired instantly and lighting restored. Missing and damaged items shall be replaced instantly.

4.5.2.4. Cleaning shall be done at regular intervals to be mentioned in the Maintenance Manual to ensure that lighting is not below the specified standard.

4.5.2.5. All installations shall be safeguarded against weathering and ageing effects by repainting and other preventive measures.

4.5.2.6. The servicing of stand-by power generation units shall be carried out in accordance with the manufacturer's instructions.



4.5.3. Maintenance of Highway Signs and Pavement Markings

4.5.3.1. All traffic signs and markings shall always be kept clean, visible and in correct alignment and position.

4.5.3.2. Any damage to traffic signs, which reduces or threatens to reduce full and clear visibility shall be rectified within twenty four (24) hours of its occurrence. If they are used as base for posters, the posters shall be removed and the signs cleaned within 24 hours. Signs shall be washed using detergent solution followed by clean water to maintain their visibility and reflectivity unimpaired due to dust etc.

4.5.3.3. Any part of traffic signs damaged due to weathering, corrosion, vandalism or any other cause shall be replaced by the Concessionaire within seven days.

4.5.3.4. Any mandatory signs including those for traffic safety, 'damaged beyond repair' shall be replaced within 2 days and all other signs with similar condition shall be replaced within 3 days.

4.5.3.5. Appropriate devices for measuring the luminosity and reflectivity shall be used to check visibility and reflectivity of signs, delineators and markings. These shall be replaced by similar material if the reduction in the level of these two requirements falls below 50% of the original level.

4.5.3.6. Pavement marking with thermo plastic paint shall be carried out soon after any overlay/renewal coat is provided.

4.5.4. Maintenance of Pickup Bus Stops

4.5.4.1. Maintenance of pickup bus stops shall include attending to repairs to the bus-bay pavement and also to various parts of the passenger shelter and connected facilities as and when necessary. Replacement of irreparable items shall be done within 2 days.



4.5.5. Maintenance of Control Centre

4.5.5.1. There shall be periodic inspection and maintenance of the Control Centres. This shall include attending to repairs and maintenance (both regular and periodic) to various parts of the building and connected services and facilities as and when necessary, and replacement of irreparable items of work. Cleaning & disinfecting of the water supply systems, inspection and maintenance of drainage/sanitation systems and electrical installations shall be as per relevant clauses of National Building Code (NBC).

4.5.5.2. Maintenance of Emergency Telephone system including its equipment shall include periodic servicing, checking of the system, replacement of components, attending to all necessary repairs and other incidentals to keep the system in working condition.

4.5.5.3. All the vehicles shall be maintained in smooth running condition at all times. In the event of any vehicle being off the road for maintenance or on account of breakdown, substitute vehicle shall be provided immediately.

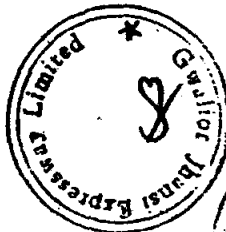
4.5.5.4. At the end of the Concession Period or the extended period thereof, Control Centres together with all equipment in working order shall be handed over to NHAI.

4.5.6. Maintenance of Buildings

4.5.6.1. Maintenance of buildings shall include routine maintenance and attending to repairs to various parts of the building and connected services as and when necessary, and replacement of irreparable items of work, cleaning & disinfection of the water supply systems, inspection and maintenance of drainage/sanitation systems and electrical installations shall be as per relevant clauses of NBC.

4.5.6.2. At the end of the concession period or the extended period thereof, all buildings shall be in useable condition and handed over to NHAI.

4.5.7. Maintenance of Road Furniture and Facilities



4.5.7.1. Maintenance of road furniture and facilities shall include attending to repairs to various parts of the road furniture and connected services as and when necessary, and replacement of irreparable items of work in reasonable period.

4.5.7.2. All the hectometre stones, Kilometre stones and 5th Km stones shall be kept 100% clear of obstruction; and up to 5% surface damage shall be rectified within 3 days after detection and shall bring it to its original state. If the surface damage is more than 10%, the same shall be removed and replaced with new ones meeting IRC standards.

4.5.7.3. At the end of the concession period or extended period thereof, all road furniture and facilities in useable and in working order shall be handed over to NHAI.

4.5.8. Maintenance of Highway Landscape

4.5.8.1. Maintenance of Highway Landscape shall include attending to repairs to elements of the landscape connected services as and when necessary, and replacement of irreparable items of work.

4.5.8.2. Trees shall be maintained as per the guidelines in IRC: SP: 21-1979 and no indiscriminate felling of trees shall be resorted to while upgrading, widening and improving the highway. The felling of trees shall be undertaken in consultation with the Independent Consultant and after obtaining due permission of the Forest Department, as applicable.

4.5.8.3. While borrowing earth from roadside land for routine maintenance it shall be ensured that no earth is removed around root of trees. All borrowing operations shall be as per IRC : 10-1961.

4.5.8.4. Maintenance operations include numbering and maintaining a register of all road side trees within the Right of Way.

4.5.8.5. The routine maintenance such as trimming and shaping shall also cover those hedges and trees within the RoW, which affect the performance of the Project Highway.

4.5.8.6. Cutting or clearance to safeguard visibility at intersections, road bends, accesses and signs shall be carried out in such a way as to avoid permanent damage to hedges and trees.



Hedges and trees overhanging carriageways shall be trimmed to provide a minimum headroom of 5.5 metres at all times.

4.5.8.7. Turfing within the RoW shall be mown as to achieve a visual pattern in harmony with adjacent areas. Mowing shall be done when the height of cut reaches 150 mm.

4.5.8.8. The grass/turf within RoW shall be maintained in such away that the roadway is free of obstruction and the availability of sight distance is ensured at intersections, passing zones, curves etc. The grass/turf around crash barrier, headwalls, paved ditches etc. shall be maintained neatly.

4.5.8.9. The Operation and Maintenance Manual shall include a maintenance and management plan for trees, shrubs, turfing and hedges to sustain their development in a manner pleasing in appearance.

4.6. Incident Management

4.6.1. Scope

- The Concessionaire shall initiate, co-ordinate and maintain an Incident Management System (IMS) and supply regular incident statistics to client.

- Incident Management entails a set of co-ordinated activities initiated by the Concessionaire when an incident (an extraordinary event resulting in the reduction of road capacity or creates a hazard for users) occurs, in order to minimise the effects of the incident and restore normal capacity and safety levels to all affected road facilities as efficiently as possible.

- If at the commencement date, there is no existing IMS at the site, then the Concessionaire should develop and implement an IMS within a period of not more than 3 months from the commencement date.

- The client shall assist the Concessionaire to identify relevant agencies (e.g. rescue, fire, hazardous materials, traffic, police, ambulance, alternative routes, cleanups) and their representatives and to liaise with these representatives on behalf of the Concessionaire.

- The Concessionaire shall set up a steering committee, which shall include representatives



of the various relevant agencies, to identify current & potential issues and problem areas which need addressing.

- The incident management centre shall be continuously staffed on a 24 hour basis. The Concessionaire shall record all incoming calls, along with the description of the nature of the call and the corresponding action taken.
- The Concessionaire shall record and maintain records of the details of all the SOS calls received (e.g. collision, hazardous material, breakdown, etc)
- After occurrence of any major incident, resulting in multiple loss of life, significant periods of road closure or major route rehabilitation work, an incident debriefing report shall be produced and forwarded to the client within one month of occurrence.

4.6.2. Levels of Service

The following levels of service apply to the incident management system:

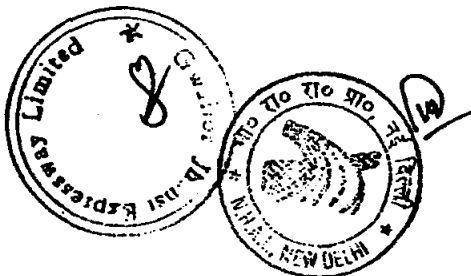
- Implementation of fully functioning IMS system – 3 months after commencement
- Staffing – 24 hrs/day and 365 days/year
- Response time to a single incident – ½ an hour after receiving notification
- Multiple incidents – as soon as possible
- Incident debriefing reports – 1 month
- Steering committee monitoring report – quarterly

4.7. Safety Management

4.7.1. Scope & Levels of Service.

The following scope of operations and levels of service applies to facilities under management:

- The Concessionaire shall comply with all the requirements of the relevant Indian Laws on Occupational Health and safety, and the necessary certification/documentation proving compliance shall be made available by the Concessionaire at any time.
- The Concessionaire shall take all necessary measures to minimize accident occurrences on the highway section. For this purpose he shall liaise with the relevant local agencies such as Police, Hospital, Fire Brigade, Highway Police, etc. as required.



- The Concessionaire shall maintain a comprehensive register and database of all accidents occurring on the Project Highway Section. The Concessionaire shall utilize this data to define and identify "Black Spots" and the like, make the necessary analysis of the cause of the "Black Spot" and make appropriate recommendations to the client for counter measures.
- The Concessionaire shall provide educational programs for the improvement of safety for the Users of Roads under operation. This shall occur four times per annum. This shall be carried out by the issuing of pamphlets, billboards, etc. The Road Patrols shall in addition take every opportunity at events such as accidents and the like to educate Users.
- The Concessionaire shall repair all damaged fencing that prevents access to animals and pedestrians to the highway. In addition the Concessionaire shall recommend to the client for installation of additional fencing where necessary to prevent access to the Highway.

In addition, the Concessionaire shall assume full responsibility for the safety of employees by providing competent training, safety clothing and safety equipment. In addition, the Concessionaire shall be responsible for the security of the project:

- Security guards shall patrol the route facilities areas and shall be provided by the Concessionaire. These guards shall operate on a 24 hour basis, for 365/6 days per year.
- The Concessionaire shall be responsible for maintaining/upgrading all facilities for site security, including fencing, intercom system, emergency communications system, access control system and the like.

4.8. Road Asset Management

4.8.1. Scope

The Concessionaire shall ensure the maximum availability and efficient utilisation of the assets for the client. This shall also include the protection of the right of way from encroachments and other unauthorised activities.



In addition to the main carriageways, the Concessionaire shall also provide for the management of rest areas, bus bays, bus parking areas and other facilities for highway users, so that these facilities operate without hindrance to the through traffic.

The Concessionaire shall maintain the buildings, plaza facilities in a manner that projects a well managed professional image to the motoring public. This shall require the Concessionaire to:

- Keep the plaza neat and litter free at all times.
- Maintain the vegetation, lawns and shrubs etc
- Maintain the parking areas and approaches neat and litter free.
- The Concessionaire shall ensure that any visual defects of the buildings, occasioned by accident or wear and tear are rectified within one week.

4.8.2. Encroachments:

The Concessionaire's enforcement of the requirements of the client shall be a significant obligation under the Contract. The client shall define the Right of Way and their requirements with respect to unauthorised accesses, encroachments and the like".

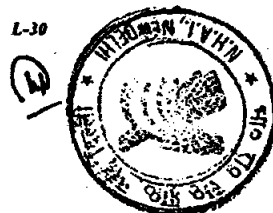
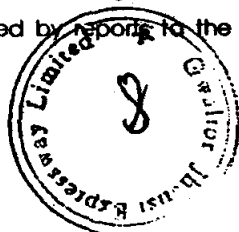
From the date of the commencement of O&M period, the Concessionaire shall be required to determine all encroachments and unauthorised accesses to the highway. The Concessionaire shall list the encroachments with a description, location and extent of each encroachment, draw up a method statement and programme for the removal of the accesses or encroachments for approval by the client. All encroachments shall be removed, and unauthorised accesses closed within 3 months of the commencement of O&M period.

4.8.3. Inspections

Full and component inspections of the highway section shall be undertaken at appropriate intervals. The Concessionaire shall draft inspection procedures for each part and component of the National Highway Section that requires periodic inspection.

4.9. Inspection Reports and Remedial Measures

4.9.1. Periodicity of inspections for maintenance activities by the Concessionaire shall be regulated as per this Agreement and governed by the exigencies of the situation. The said inspections shall be followed by reports to the Independent Consultant and the NHAI.



Based on reports, detailed investigations shall be undertaken by the Concessionaire itself and/or on advice of the Independent Consultant and the NHAI as the case may be.

- 4.9.2. The Concessionaire shall carry out any maintenance, repair or rehabilitation works found necessary by these investigations in accordance with the Maintenance Manual and this Agreement.

4.10. Maintenance of Facilities for Road Users

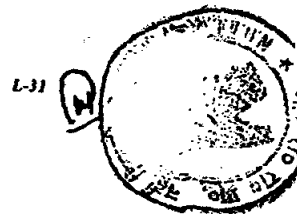
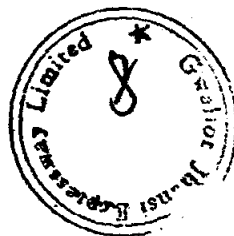
- 4.10.1. The Concessionaire shall ensure that all the Project Facilities provided for users of all categories are kept in a neat, hygienic and tidy condition. Special attention shall be given to the preparation of food items so that they are cooked with unadulterated ingredients in a hygienic manner.

4.11. Items of Maintenance

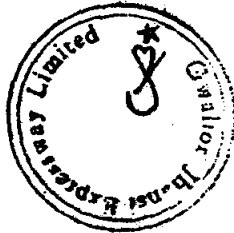
- 4.11.1. The Concessionaire shall maintain the Project Highway, Project Facilities and Project Assets in working and orderly condition at all times during the Concession Period or any extension thereof.
- 4.12. The specifications and standards for maintenance items shall be governed and regulated as per Schedule 'D' of this Agreement.

5. DIVESTMENT

- 5.1. The Concessionaire shall take action(s) in terms of Article XXXIV Defects Liability and Article XLIV Miscellaneous of this Agreement prior to proceeding with Transfer of the Project Highway, Facilities and Assets thereon to NHAI.
- 5.2. The Concessionaire shall obtain a Transfer Certificate as per Schedule L1 appended to this Schedule, from the Independent Consultant, who shall issue it after satisfying itself that the Project Highway and Facilities and Assets thereon have been constructed, operated and maintained in terms of this Agreement during the Concession Period and meet the divestment requirements as per this Agreement for the issue of Vesting Certificate (Schedule V) by NHAI.



- 5.3. The Concessionaire shall take action(s) under Article XXXIII Divestment of Rights and Interests of this Agreement after obtaining the Transfer Certificate (Schedule L1) from the Independent Consultant as spelt out in 5.2 above in order to obtain Vesting Certificate (Schedule V) from NHAI.
- 5.4. The issuance of the Vesting Certificate (Schedule V) by NHAI as per sub clause 33.4 of Article XXXIII Divestment of Rights and Interest, to the Concessionaire shall result in the completion of the transfer of the Project Highway in terms of this Agreement.



TRANSFER CERTIFICATE

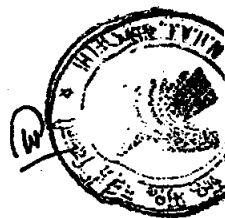
I/We _____ (name of the Independent Consultant) issue this certificate, designated Transfer Certificate for widening of the existing 2-lanes to 4/6 lanes divided carriageway facility including rehabilitation of existing 2-lanes, from Gwalior (existing Km 16.00), proposed chainage 16.00 Km to existing Km 6.70, proposed chainage 96.127 Km on Gwalior-Jhansi section of National Highway No. 75 in the States of Madhya Pradesh/ Uttar Pradesh, India on Build, Operate and Transfer (BOT) Annuity basis by the Concessionaire _____ (name of the Concessionaire) on Build, Operate and Transfer (BOT) Annuity basis as per the Concession Agreement between the National Highway Authority of India (NHAI) and the said Concessionaire, being satisfied that the Project Highway has been constructed, operated and maintained during the Concession Period is in sound, durable and operational condition on completion of the said concession period, and it is in a fit condition for transfer by the said Concessionaire to the NHAI or its nominee. The transfer of the said Project Highway together with facilities thereon shall be effected on the strength of this certificate.

Place of Issue _____

Date of Issue _____



(Independent Consultant)



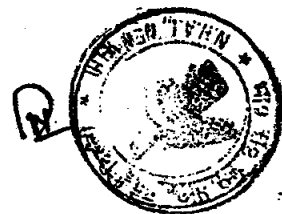
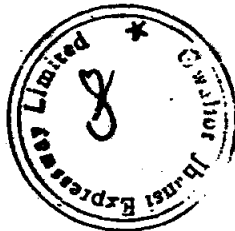
Appendix - 3.4

Equivalent Rating Conditions

Category	Status	Rating
Very Good condition	On completion as per specification and standards	9
Good Condition	No repairs needed	8
Generally good condition	Potential exists for minor maintenance	7
Fair condition	Potential exists for major maintenance	6
Generally fair condition	Potential exists for minor rehabilitation	5
Marginal condition	Potential exists for major rehabilitation	4
Poor Condition	Repair or rehabilitation required immediately	3
Critical condition	Need for repair or rehabilitation is urgent. Facility should be closed until the indicated repair is complete	2
Very Critical condition	Facility is closed. Study should determine the feasibility for repair	1
Unserviceable	Facility is closed and is beyond repair	0

Sufficiency Rating System

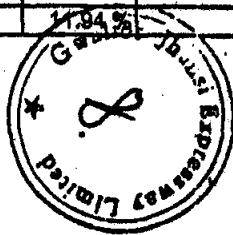
1. Load Performance
2. Safety Performance
3. Remaining Life



SCHEDULE M
Cash Flow Projections

CASH FLOW STATEMENT										
NS1/BOT/MP-UP										
	DID									
End of semi-annual period from SPCD		1	2	3	4	5	6	7	8	9
End of Month	31-Dec-07	30-Sep-09	31-Mar-10	30-Sept-10	31-Mar-11	30-Sep-11	31-Mar-12	30-Sep-12	31-Mar-13	30-Sep-13
Initial Investment (1)	604									
Annuity Amount (2)		52.29	52.29	52.29	52.29	52.29	52.29	52.29	52.29	52.29
Less :										
Projected Routine Maintenance Cost (3)		2.40	2.46	2.52	2.59	2.65	2.72	2.79	2.86	2.93
Projected Periodic Maintenance Cost(4)										
Projected total O&M Expenses (5) = (3)+(4)		2.40	2.46	2.52	2.59	2.65	2.72	2.79	2.86	2.93
Projected Net Cash Flow (6)=(2)-(1)-(5)	-804	49.89	49.83	49.77	49.70	49.64	49.57	49.50	49.43	49.36
Internal Rate of Return	11.84%									

Note : All amount is In Rupees in Crores.



CASH FLOW STATEMENT										
NS1/BOT/MP-UP										
	10	11	12	13	14	15	16	17	18	19
End of semi-annual period from SPCD	31-Mar-14	30-Sep-14	31-Mar-15	30-Sep-15	31-Mar-16	30-Sep-16	31-Mar-17	30-Sep-17	31-Mar-18	30-Sep-18
End of Month										
Initial Investment (1)										
Annuity Amount (2)	52.29	52.29	52.29	52.29	52.29	52.29	52.29	52.29	52.29	52.29
Less :										
Projected Routine Maintenance Cost (3)	3.00	3.08	3.15	3.23	3.31	3.39	3.48	3.57	3.66	3.75
Projected Periodic Maintenance Cost(4)	24.49									
Projected total O&M Expenses (5) = (3)+(4)	27.49	3.08	3.15	3.23	3.31	3.39	3.48	3.57	3.66	3.75
Projected Net Cash Flow (6)=(2)-(1)-(5)	24.80	49.21	49.14	49.06	48.98	48.90	48.81	48.72	48.63	48.54
Internal Rate of Return										

Note : All amount is in Rupees in Crores.



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CASH FLOW STATEMENT										
NS1/BOT/MP-UP										
End of semi-annual period from SPCD	20	21	22	23	24	25	26	27	28	29
End of Month	31-Mar-19	30-Sept-19	31-Mar-20	30-Sep-20	31-Mar-21	30-Sep-21	31-Mar-22	30-Sep-22	31-Mar-23	30-Sep-23
Initial Investment (1)										
Annuity Amount (2)	52.29	52.29	52.29	52.29	52.29	52.29	52.29	52.29	52.29	52.29
Less :										
Projected Routine Maintenance Cost (3)	3.84	3.94	4.04	4.14	4.24	4.35	4.45	4.57	4.68	4.80
Projected Periodic Maintenance Cost(4)	31.35									
Projected total O&M Expenses (5) = (3)+(4)	35.20	3.94	4.04	4.14	4.24	4.35	4.45	4.57	4.68	4.80
Projected Net Cash Flow (6)=(2)-(1)-(5)	17.09	48.35	48.25	48.15	48.05	47.94	47.84	47.72	47.61	47.49
Internal Rate of Return										

Note : All amount is in Rupees in Crores.



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SCHEDULE N**SELECTION CRITERIA FOR INDEPENDENT CONSULTANT**

Selection of the Independent Consultant shall consist of the following steps:

1. Issue of Request of Proposal for selection of Independent Consultant by NHAI
2. Evaluation of Firms Credentials
3. Evaluation of Technical Proposal.
4. Evaluation of Financial Proposal of the firm.
5. Calculation of the combined score of a firm based on Technical and Financial score
6. Negotiation and selection of Independent Consultant.

SELECTION COMMITTEE

A selection committee shall do the selection; NHAI shall nominate the members of this committee.

DETAILS OF THE SELECTION PROCESS

1. **Issue of Request of Proposal for selection of Independent Consultant by NHAI**

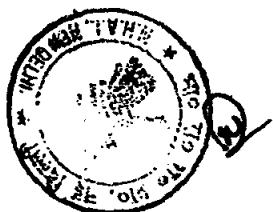
NHAI will issue a Request for Proposal (RFP) for selection of Independent Consultant through single stage bidding process. This RFP shall include a Letter of Intent (LoI) and the Terms of Reference (ToR) besides information (Data Sheet) to the firms and the proposed form of contract. It shall contain the guidelines for the preparation of proposals by the firms and submission. ToR shall include the following details:

1. Project background
2. Objectives
3. Scope of services
4. Interaction with NHAI
5. Reporting requirement
6. Performance clause
7. Consultant's Proposal
8. Period of Services

- 1.1 The LoI shall state the intention of the NHAI to enter into a contract for the provision of consulting services and the date, time and address for submission of proposals. The Proposal should be submitted in Three Parts in 3 separate envelopes / packages and put together in one single outer envelope/package. The three parts of the proposal will be: Part 1: Firms Credentials, Part 2: Technical Proposal, and Part 3: Financial Proposal. The proposal must be submitted in a hard bound form (hard bound implies binding between two covers through stitching or

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otherwise whereby it may not be possible to replace any paper without disturbing the document - spiral bound form, loose form, etc. will be not accepted) with all pages numbered serially, along with an index of submissions. All figures quoted in the financial Proposal should be covered with a transparent adhesive tape

2. Evaluation of Firms Credentials

The envelop containing the firms credentials (Part 1 of the proposal) would first be opened and evaluated based on the following criterion

S.no	Description	Marks
1	Year of Establishment of Firm	10
2	Average annual turnover (last three years)	10
3	Number of Key personnel	10
4	Experience of the firm in DRP preparation for Highways projects during the last 7 years.	10
5	Experience of the firm in DPR preparation/design review/supervision of major highway structures of length more than 200m during the last 7 years.	10
6	Experience of the Firm in as Independent Consultant or in Construction Supervision for Highway projects during the last 7 years.	50
	TOTAL	100

The firms should score at least 70 marks for qualifying to the next stage.

3. Evaluation of Technical Proposal

The technical proposals (Part 2 of the proposal) received from short listed firms shall be evaluated for selection of firms based on the following:

Evaluation Criteria for Technical Proposal

S.No.	Description	Marks
1	Specific Experience of the firm related to the assignment	20
2	Adequacy of the proposed work plan and methodology in response to the ToR	05
3	Qualifications and competence of the key staff for the assignment	75
	Total	100



Sub criteria for Specific Experience of the firm related to the assignment

Experience as Independent Consultant / Construction Supervision in Highway Projects	12
Experience in DPR preparation for Highway Projects	4
Experience in Construction Supervision/DPR /Design Review of Major structures having length of more then 200 meter.	4

Sub criteria for Adequacy of the proposed work plan and methodology in response to the ToR

Comments & Suggestions on TOR	1
Quality of Approach and Methodology	3
Work Programme & Manning Schedule	1

Sub criteria for qualification of key staff

General qualifications	25
Adequacy for the project	70
Experience in Region and language	5

Qualification and competence of key staff for the assignment. The weightage for various key staff are as under:- same as O 11

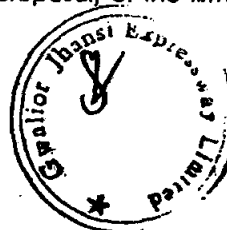
Key Personnel	Marks.
Team Leader Cum Senior Highway Engineer	18
Senior Pavement Specialist	7
Senior Bridge Design Engineer	9
Highway Design Engineer	8
Bridge/Structural Engineer	9
Road Safety Expert	3
Highway Engineer	9
Senior Quality cum Material Expert	12

The technical proposal should score at least 75 points to be considered responsive for financial evaluation.

4. Evaluation of Financial Proposal

The Financial proposals (Part 3 of the proposal) of the firms shall be opened and evaluated as under:

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The financial score of the lowest bidder shall be 100 marks. The financial score for the remaining bidders shall be calculated in proportionate to the lowest bidder by the following formula:

Financial Score of 'X' = $\{100 \times \text{Bid price of lowest bidder}\} / \{\text{Bid price of 'X'}\}$

5. Calculation of the combined score of a firm

The combined score of the firm will be calculated as under:

The weightage given to the technical proposal : 80%

The weightage given to financial proposal : 20%

The combined score of bidder 'X' = $0.20\{\text{Financial score of bidder 'X'}\} + 0.80\{\text{Technical score of bidder 'X'}\}$

6. Negotiations and Selection of Independent Consultants

The combined score of technical and financial proposals shall be calculated and the firm scoring maximum marks shall be called for negotiations. After satisfactory agreement of all matters by both the parties, NHA will appoint the said firm as Independent Consultant for the initial term of 48 months.



SCHEDULE O
Terms of Reference for
Independent Consultants

SCHEDULE O

TERMS OF REFERENCE OF INDEPENDENT CONSULTANT

SECTION 1. LETTER OF INVITATION

Sub.: Independent Consultancy Services for 4/6 laning of 7 projects on North-South Corridors (NHDP - Phase II) in the States of Uttar Pradesh & Madhya Pradesh on BOT (Annuity) Basis

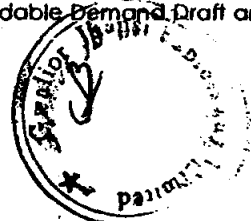
1. The National Highways Authority of India (NHAI) invites proposals for Independent Consultancy Services on the basis of international Competitive Bidding for the following 7 packages in the State of Uttar Pradesh & Madhya Pradesh on North-South Corridor under NHDP Phase II programme.

Project Reference	State/ NH	Proposed Chainage	Kms
NS 1/BOT/UP-1	Uttar Pradesh/ NH2/3	Km 0 to Km 32.800	32.800
NS 1/BOT/MP-1	Madhya Pradesh/ NH3/75	Km 0 to Km 42.033	42.033
NS 1/BOT/MP-UP	Madhya Pradesh/ Uttar Pradesh/ NH 75	Km 16.000 to Km 96.127	80.127
NS 1/BOT/UP-2	Uttar Pradesh/ NH 25/26	Km 0.00 to Km 49.700	49.700
NS 1/BOT/UP-3	Uttar Pradesh/ NH 26	Km 49.700 to Km 99.005	49.305
NS 1/BOT/MP-2	Madhya Pradesh/ NH-7	Km 547.400 to Km 596.750	49.350
NS 1/BOT/MP-3	Madhya Pradesh/ NH-7	Km 596.750 to Km 653.225	56.475

2. The BOT projects basically comprises up-gradation and construction of 4/6-lane highways, construction and rehabilitation of bridges and culverts, construction of high embankment/elevated structures/ROBs etc. along the existing highways including realignment and bypasses. The proposed construction work will involve use of modern equipments and construction practices.
3. NHAI intend to appoint Consultants to act as Independent Consultants for implementation of the above BOT projects. As per Terms and Conditions of the Concession Agreement(s), the Independent Consultant is required to: (i) independently review activities associated with design, design review, construction and operation and maintenance of the project on behalf of both NHAI and Concessionaire so as to ensure compliance of requirements of Concession Agreement (ii) report to NHAI on the Financial and Technical aspects of the project, (iii) assist the parties to the Concession Agreement in arriving at an amicable settlement of disputes, if any.
4. The interested consultancy firms may obtain the RFP from NHAI office from address given below up to [] on all working days within 1000 hrs and 1700 hrs. IST by payment of non-refundable Demand Draft amounting to Rs. 5,000/-

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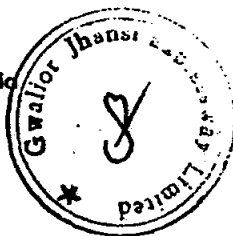
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drawn in favour of "National Highways Authority of India" payable at any schedule bank in New Delhi. The RFP document is also available on NHAI website from []. The Consultant who download the RFP document from the website will be required to pay the non-refundable fee of Rs 5,000/- at the time of the submission of the document.

5. For submission, evaluation and selection of Consultant a "single stage" process has been planned. The proposal should be submitted in three parts in three separate envelopes/packages and put together in one single outer envelope/package. The three parts of the proposal are (i) Part 1: Firms credential, (ii) Part 2: Technical Proposal and (iii) Part 3: Financial Proposal. Part 1 of the proposal would be first opened and evaluated and the firms scoring the qualifying marks as mentioned in RFP would be considered for further evaluation. The financial proposal of only those firms, who score qualifying marks in the technical proposal would be opened and evaluated. The final selection of the firm would be based on combined score of technical and financial proposal. The weightage to technical and financial score would be 80% & 20% respectively.
6. The total time period for the assignment as independent consultant will be for [48] months.
7. A firm either individually or in joint venture/association may apply for _____. A firm cannot be a part of other joint venture/association for applying in more than _____ package. In case of Joint venture/association, maximum _____ firms are permitted.
8. NHAI will not be responsible for any delay, loss or non-receipt of RFP document sent by post/courier. Further, NHAI shall not be responsible for any delay in receiving the Proposal and reserves the right to accept/reject any or all applications without assigning any reason thereof.
9. The three parts of the Proposal (firms credentials, technical proposal and financial proposal) must be submitted in a hard bound form (hard bound implies binding between two covers through stitching or otherwise whereby it may not be possible to replace any paper without disturbing the documents- spiral bound form, loose form, etc. will be not accepted) with all pages numbered serially, along with an index of submission. All figures quoted in the financial Proposal should be covered with a transparent adhesive tape. In the event, any of the instructions mentioned herein have not been adhered to, NHAI will reject the Proposal.
10. RFP submission must be received not later than 1100 hrs on [] in the manner specified in the RFP document at the addressed given below.

Mr. P. Ravinder Rao
General Manager (N-II)
National Highways Authority of India
G-5 & G-6, Sector 10, Dwarka
New Delhi 110 075.
Tel:- 011-25074100/4200 Ext 1507
Fax:- 011-25093513

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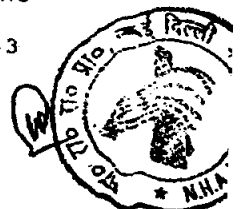
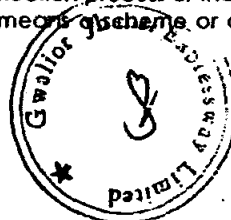


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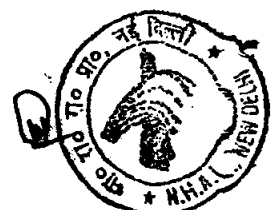
SECTION 2. INFORMATION TO CONSULTANTS

1 INTRODUCTION

- 1.1 You are hereby invited to submit a proposal for consulting services required for the assignment named in the attached Letter of Invitation. Your proposal could form the basis for future negotiations and ultimately a contract between your firm and the NHAI.
- 1.2 A brief description of the assignment and its objectives are given in the Terms of Reference (TOR).
- 1.3 The assignment shall be implemented in various stages such as Design, Construction supervision, and Operation and Maintenance supervision. Continuation of services for the next stage shall be subject to satisfactory performance of the previous stage, as determined by the NHAI.
- 1.4 To obtain first hand information on the assignment and on the local conditions, you are encouraged to pay a visit to the NHAI before submitting a proposal and attend a pre proposal conference as specified in the data sheet. You must inform yourself of local conditions and take them into account in preparing your proposal.
- 1.5 Please note that (i) the costs of preparing the proposal and negotiating for the contract, including a visit to site, are not reimbursable as a direct cost of assignment and (ii) NHAI is not bound to accept any of the proposals received by it and reserves the right to annul the selection process at any time prior to contract award, without thereby incurring any liability to the Consultants.
- 1.6 We wish to remind you that in order to avoid conflict of interest situations, any firm associated with the Concessionaire of the Project Highway and its Design and/or Supervision Consultant and/or the Contractor(s) as Design Consultant and/or Construction Supervision Consultant is not eligible to participate in the bidding.
- 1.7 Consultants have an obligation to disclose any situation of actual or potential conflict that impacts their capacity to serve the best interest of their Client, or than may reasonably be perceived as having this effect. Failure to disclose said situations may lead to the disqualification of the Consultant or the termination of its Contract.
- 1.8 It is the NHAI's policy that the consultants observe the highest standard of ethics during the selection and execution of such contracts. In pursuance of this policy, the NHAI:
- (a). Defines, for the purpose of this paragraph, the terms set forth below as follows:
 - i. "corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the selection process or in contract execution;
 - ii. "fraudulent practice" means a misrepresentation or omission of facts in order to influence a selection process or the execution of a contract;
 - iii. "collusive practices" means a scheme or arrangement between two



- or more consultants with or without the knowledge of the Client, designed to establish prices at artificial, noncompetitive levels;
- iv. "coercive practices" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a contract.
 - (b) will reject a proposal for award if it determines that the Consultant recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the contract in question;
 - (c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a contract; and
 - (d) will have the right to require that a provision be included requiring consultants to permit the NHAI to inspect their accounts and records relating to the performance of the contract and to have them audited by authorized representatives of NHAI.
- 1.9 Consultants, their Sub-Consultants, and their associates shall not be under a declaration of ineligibility for corrupt and fraudulent practices. Furthermore, the Consultants shall be aware of the provisions on fraud and corruption stated in the specific clauses in the General Conditions of Contract.
- 1.10 Consultants shall furnish information on commissions and gratuities, if any, paid or to be paid to agents relating to this proposal and during execution of the assignment if the Consultant is awarded the Contract, in the Financial Proposal.
- 1.11 The Data Sheet indicates how long Consultants' Proposals must remain valid after the submission date. During this period, Consultants shall maintain the availability of Professional staff nominated in the Proposal. The Client will make its best effort to complete negotiations within this period. Should the need arise, however, the Client may request Consultants to extend the validity period of their proposals. Consultants who agree to such extension shall confirm that they maintain the availability of the Professional staff nominated in the Proposal, or in their confirmation of extension of validity of the Proposal. Consultants could submit new staff in replacement, who would be considered in the final evaluation for contract award. Consultants who do not agree have the right to refuse to extend the validity of their Proposals.
2. **CLARIFICATIONS AND AMENDMENT OF RFP DOCUMENTS**
- 2.1 Consultants may request a clarification of any of the RFP documents up to the number of days indicated in the Data Sheet before the Proposal submission date. Any request for clarification must be sent in writing by paper mail, cable, telex, facsimile, or electronic mail to the Client's address indicated in the Data Sheet. The Client will respond by cable, telex, facsimile, or electronic mail to such requests and will send copies of the response (including an explanation of the query but without identifying the source of inquiry) to all invited consultants who intend to submit proposals.
- 2.2 At any time before the submission of Proposals, the Client may for any reason, whether of its own initiative or in response to a clarification requested by an invited firm, modify the RFP documents by amendment. Any amendment shall be issued in writing through addenda. Addenda shall be sent by mail, cable, telex, facsimile or electronic mail to all invited consultants and will be



binding on them. The Client may at its discretion extend the deadline for the submission of Proposals.

3. PREPARATION OF PROPOSAL

3.1 You are requested to submit your proposal in Three Parts in 3 separate envelopes / packages and put together in one single outer envelope/package. The three parts shall be:

Part 1: Firms Credentials,

Part 2: Technical Proposal and

Part 3: Financial Proposal.

The proposal shall be written in the language specified in the data sheet.

Part 1: Firms Credentials

3.2 This submission shall contain the following information/ details and should not include any other information

- Year of Establishment of Firm
- Average annual turnover (last three years)
- Number of Key personnel
- Experience of the firm in DPR preparation for Highways projects during the last 7 years.
- Experience of the firm in DPR preparation/design review/supervision of major highway structures of length more than 200m during the last 7 years.
- Experience of the Firm as Independent Consultant or Supervision Consultant for Highway projects during the last 7 years.

Part 2: Technical Proposal

3.3 You are expected to examine all terms and conditions included in the documents. Failure to provide all requested information will be at your own risk and may result in rejection of your proposal.

3.4 During preparation of the technical proposal you may give particular attention to the following :

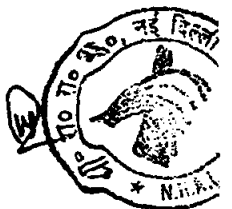
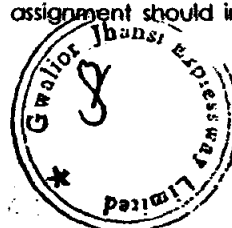
- i. The estimated manmonths for the assignment is stated in the Terms of Reference for your information. The proposal shall however be based on the number of professional staff months estimated by the firm.
- ii. The majority of the key professional staff proposed must be permanent staff of the firm.
- iii. No alternative to key professional staff may be proposed and only one Curriculum Vitae (CV) may be submitted for each position and
- iv. A good working knowledge of the language specified in the data sheet is essential for key professional staff on this assignment. Reports must be in the language (s) specified in the data sheet.
- v. Joint venture are allowed as detailed in the data sheet

3.5 Your technical proposal must provide the following information, using but not limited to the formats attached in the Appendix I.

- i. A brief description of the firm's organisation and an outline of recent experience of the Consultants and, in the case of Joint Venture, for each partner, on assignments of a similar nature. The information which you shall provide on each assignment should indicate, *inter-alia*, the

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profiles of the staff provided, duration, contract amount and firm's involvement.

- ii. Any comments or suggestions on the ToR and a description of the methodology (work plan) which the firm proposes to execute the services, illustrated with bar charts of activities.
 - iii. The composition of the proposed staff team, the tasks which shall be assigned to each and their timing;
 - iv. CVs recently signed in blue ink on each page by both the proposed professional staff and the authorised representative submitting the proposal. Key information should include years with the firm and degree of responsibility held in various assignments. Photocopy or unsigned CVs shall not be evaluated.
 - v. Estimates of the total time effort (person x months) to be provided for the services, supported by bar chart diagrams showing the time proposed (person x months) for each professional staff and
 - vi. Any additional information requested in Data Sheet.
- 3.6 The technical proposal must not include any financial information.

Part 3: Financial Proposal

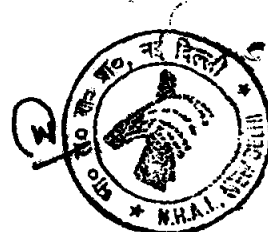
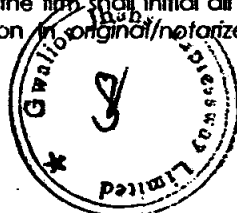
- 3.7 In preparing the Financial Proposal, consultants are expected to take into account the requirements and conditions of the RFP documents. The Financial Proposal should follow Standard Forms. It lists all costs associated with the Assignment, including (a) remuneration for staff (foreign and local, in the field and at headquarters), and (b) rentals/fixed rates/reimbursable such as subsistence (per diem, housing), transportation (international and local, for mobilization and demobilization), services and equipment (vehicles, office equipment), furniture, and supplies), office rent, insurance, printing of documents, surveys, and training, if it is a major component of the assignment. If appropriate, these costs should be broken down by activity and if appropriate into foreign and local expenditures.
- 3.8 The Financial Proposal should clearly identify as a separate amount, the local taxes (including social security), duties, fees, levies and other charges imposed under the applicable law, on the consultants, the sub-consultants, and their personnel (other than nationals or permanent residents of the government's country); unless the Data Sheet specifies otherwise.
- 3.9 Consultants may express the price of their services in the Local currency (Indian Rupees) and/or US Dollar at the rate prevalent at the time of submission of the proposals. The Client may require consultants to state the portion of their price representing local cost in the national currency if so indicated in the Data Sheet.

4. SUBMISSION, RECEIPT AND OPENING OF PROPOSALS

- 4.1 The original proposal shall be prepared in indelible ink. It shall contain no interlineation or overwriting, except as necessary to correct errors made by the firm itself. Any such corrections must be initiated by the person or persons who sign(s) the Proposals.
- 4.2 An authorized representative of the firm shall initial all pages of the Proposal. The representative's authorization in original/notarized is confirmed by a

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- written power of attorney accompanying the Proposal.
- 4.3 You must submit one original proposal only. The envelope must be clearly marked.

"DO NOT OPEN, EXCEPT IN PRESENCE OF THE EVALUATION COMMITTEE"

- 4.4 This outer envelope shall include three separate envelopes, each clearly marked as "Part 1: Firms Credentials", "part 2: Technical Proposal" or "Part 3: Financial Proposal" (each envelope indicating original or copy as appropriate).
- 4.5 The proposal must be submitted in a hard bound form (hard bound implies binding between two covers through stitching or otherwise whereby it may not be possible to replace any paper without disturbing the document -spiral bound form, loose form, etc. will be not accepted) with all pages numbered serially, along with an index of submissions. All figures quoted in the financial Proposal should be covered with a transparent adhesive tape.
- 4.6 Your completed proposal must be delivered on or before the time and date stated in the data sheet.

5. PROPOSAL EVALUATION

- 5.1 A three -stage procedure shall be adopted in evaluating the proposals : (i) Firms Credentials, firms securing the qualifying marks mentioned in Clause 5.2 will be eligible for Technical and Financial evaluation (ii) Technical Evaluation, firms securing the qualifying marks mentioned in Clause 5.3 will be eligible for Financial evaluation and (iii) Financial Evaluation.

Firms Credentials

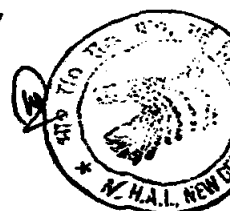
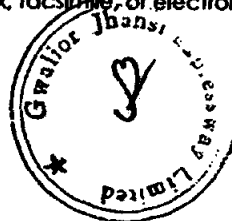
- 5.2 The Evaluation Committee appointed by the NHAI shall carry out its evaluation applying the evaluation criteria and point system specified in the data sheet. The firms should score at least 70 marks for qualifying to the next stage

Technical Proposal

- 5.3 The Evaluation Committee appointed by the NHAI shall carry out its evaluation applying the evaluation criteria and point system specified in the data sheet. Each responsive proposal shall be attributed a technical score (St.) The technical proposal should score at least 75 points to be considered responsive for financial evaluation.

Financial Proposal

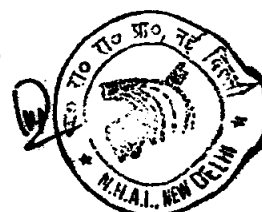
- 5.4 After the evaluation of technical proposal is completed, the Client may notify those consultants whose proposals were considered non-responsive to the RFP and Terms of Reference, indicating that their Financial Proposals will be returned unopened after completing the selection process. The Client shall simultaneously notify the consultants that have secured the minimum qualifying mark, indicating the date and time set for opening the Financial Proposals. The opening date should allow Consultants sufficient time to make arrangements for attending the opening. The notification may be sent by registered letter, cable, telex, facsimile, or electronic mail.



- 5.5 The Financial Proposals shall be opened publicly in the presence of the consultants' representatives who choose to attend. The name of the consultant, the quality scores, and the proposed prices shall be read aloud and recorded when the Financial Proposals are opened. The Client shall prepare minutes of the public opening.
- 5.6 The Evaluation Committee will correct any computational errors. When correcting computational errors, in case of discrepancy between a partial amount and the total amount, or between word and figures the formers will prevail. In addition to the above corrections, activities and items described in the Technical Proposal but not priced, shall be assumed to be included in the prices of other activities or items. In case an activity or line item is quantified in the Financial Proposal differently from the Technical Proposal, (i) if the Time-Based form of contract has been included in the RFP, the Evaluation Committee shall correct the quantification indicated in the Financial Proposal so as to make it consistent with that indicated in the Technical Proposal, apply the relevant unit price included in the Financial Proposal to the corrected quantity and correct the total Proposal cost. (ii) if the Lump-Sum form of contract has been included in the RFP, no corrections are applied to the Financial Proposal in this respect. Prices shall be converted to a single currency using the selling rates of exchange, source and date indicated in the Data Sheet. The evaluation shall exclude those taxes, duties, fees, levies, and other charges imposed under the applicable law; and those applied to foreign and non-permanent resident consultants.
- 5.7 The Evaluation Committee shall determine if the financial proposal is complete and without computational errors. The lowest financial proposal (Fm) shall be given a financial score (Sf) of 100 points. The financial score of the proposals shall be computed as follows : $Sf = 100 \times Fm / F$ (F-amount of financial proposal).
- 5.8 Proposals shall finally be ranked according to their combined technical (St) and financial (Sf) scores using the weights indicated in the data sheet.

6. NEGOTIATIONS

- 6.1 Prior to the expiration period of validity of proposal, the NHAI shall notify the successful firm who submitted the highest scoring proposal in writing by registered letter, cable telex or facsimile and invite it to negotiate the contract.
- 6.2 Negotiations normally take two to five days. The aim is to reach agreement on all points, and initial a draft contract by the conclusion of negotiations.
- 6.3 Negotiations shall commence with a discussion of your technical proposal, the proposed methodology (work plan), staffing and any suggestions you may have made to improve the ToR. Agreement must then be reached on the final ToR, the staffing and bar charts, which shall indicate activities, staff, periods in the field and in the home office, staff months, logistics and reporting. Special attention shall be paid to optimise the required outputs from the firm within the available budget and to define clearly the inputs required from the NHAI to ensure satisfactory implementation of the assignment.



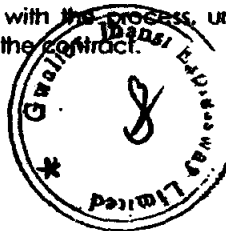
- 6.4 It is the responsibility of the Consultant, before starting financial negotiations, to contact the local tax authorities to determine the local tax amount to be paid by the Consultant under the Contract. The financial negotiations will include a clarification (if any) of the firm's tax liability in the Client's country, and the manner in which it will be reflected in the Contract; and will reflect the agreed technical modifications in the cost of the services. Unless there are exceptional reasons, the financial negotiations will involve neither the remuneration rates for staff nor other proposed unit rates.
- 6.5 Changes agreed upon shall then be reflected in the financial proposal, using proposed unit rates (no negotiation of the unit rates, including the man months rates).
- 6.6 Having selected a firm, among other things, on the basis of an evaluation of proposed key professional staff, the NHA expects to negotiate, a contract on the basis of the staff named in the proposal and, prior to contract negotiations, will require assurance that this staff shall be actually available. NHA shall not consider substitutions during contract negotiations except in cases of unexpected delays in the starting date or incapacity of key professional staff for reasons of health.
- 6.7 The negotiations shall be concluded with a review of the draft form of Contract. The NHA and the firm will finalise the contract to conclude negotiations.

7. AWARD OF CONTRACT

- 7.1 After completion of negotiations with the consultants, the Client shall award the Contract to the selected Consultant. However, after signing of the Contract, the Client may return the unopened Financial Proposals to the unsuccessful Consultants.
- 7.2 The successful firm with whom the contract is signed is expected to commence the assignment on the date and at the location specified in the data sheet.

8. CONFIDENTIALITY

Information relating to evaluation of proposals and recommendations concerning awards shall not be disclosed to the consultants who submitted the proposals or to other persons not officially concerned with the process, until the winning firm has been notified that it has been awarded the contract.



DATA SHEET

(As Mentioned in Information to Consultants)

Sub clause No. in Information to Consultants

1.4 Pre-Proposal Conference shall be held at:

1.11 the proposal shall be valid for 120 days after the last date of submission.

2.1 Clarification may be requested 15 days prior to last date of submission. The address for requesting clarification are:

Mr. P. Ravinder Rao

General Manager (N-II)

National Highways Authority of India

G-5 & G-6, Sector 10, Dwarka

New Delhi 110 075.

Tel:- 011-25074100/4200 Ext 1507

Fax:- 011-25093513

3.1 The Language of documents and correspondence will be English

3.4 Limitations to joint ventures or sub-consultant are : Joint Venture consisting of maximum two firms are permitted. In case of JV the experience of both the firms shall be counted. In case of association/sub-consultant the experience of associated firm/sub-consultant shall not be counted whereas the key personnel of the associated firm would be considered for evaluation.

All the personnel shall have working knowledge of English and all the reports etc shall be written in English.

3.8 Taxes – consultants are requested to consult Tax Consultants for details.

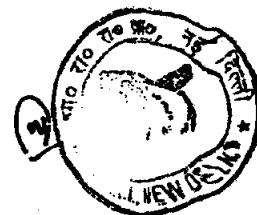
3.9 The Consultants to state local cost in INR.

4.6 The time and date of submission 1100 hrs on _____

5.2 Firms Credentials

S. no	Description	Marks
1	Year of Establishment of Firm	10
2	Average annual turnover (last three years)	10
3	Number of Key personnel.	10
4	Experience of the firm in DPR preparation for Highways projects during the last 7 years.	10
5	Experience of the firm in DPR preparation/design review/supervision of major highway structures of length more than 200m during the last 7 years.	10
6	Experience of the Firm as Independent Consultant or Supervision Consultant for Highway projects during the last 7 years.	50
	TOTAL	100

The firms should score at least 70 marks for qualifying to the next stage.



5.3 The points assigned to Technical Evaluation criteria are :

S.No.	Description	Marks
1	Specific Experience of the firm related to the assignment	20
2	Adequacy of the proposed work plan and methodology in response to the ToR	05
3	Qualifications and competence of the key staff for the assignment	75
	Total	100

Sub criteria for Specific Experience of the firm related to the assignment

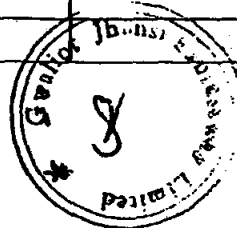
Experience as Independent Consultant / in Construction Supervision in Highway Projects	12
Experience in DPR preparation for Highway Projects	4
Experience in Construction Supervision/DPR /Design Review of Major structures having length of more then 200 meter.	4

Sub criteria for Adequacy of the proposed work plan and methodology in response to the ToR

Comments & Suggestions on TOR	1
Quality of Approach and Methodology	3
Work Programme & Manning Schedule	1

Qualification and competence of key staff for the assignment. The weightage for various key staff are as under:-

Key Personnel	Marks.
Team Leader Cum Senior Highway Engineer	18
Senior Pavement Specialist	7
Senior Bridge Design Engineer	9
Highway Design Engineer	8
Bridge/Structural Engineer	9
Road Safety Expert	3
Highway Engineer	9
Senior Quality cum Material Expert	12



Sub criteria for qualification of key staff.

General qualifications	25
Adequacy for the project	70
Experience in Region and language	5

The technical proposal should score at least 75 points to be considered responsive for financial evaluation.

5.6 The single currency for price conversion is INR. The conversion rate shall be RBI Reference Rate as was applicable 7 days prior to the last date for submission of proposal.

5.8 The weightage given to technical proposal is 80%.

The weightage given to financial proposal is 20%.

7.2 Commencement of Assignment : The firm shall begin carrying out the services within one month of signing of the Consultancy Agreement.

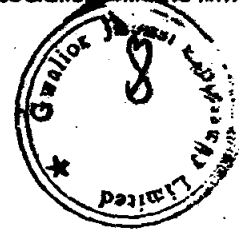


SECTION 3. FORMATS FOR SUBMISSION OF FIRMS CREDENTIALS

The proposal should contain the following information in enclosed format attached at Appendix A.

- Year of Establishment of Firm
- Average annual turnover (last three years)
- Number of Key personnel
- Experience of the firm in DRP preparation for Highways projects during the last 7 years.
- Experience of the firm in DPR preparation/design review/supervision of major highway structures of length more than 200m during the last 7 years.
- Experience of the Firm as Independent Consultant or Supervision Consultant for Highway projects during the last 7 years.

Note: The Firm shall submit Certificate of Incorporation and audited balance sheet for the last three years (FY 2002-2003, FY 2003-2004 and FY 2004-2005) and provisional accounts for whole / part of FY 2005-06 as the case may be. For claiming experience of Highway projects completion certificate from employer should be enclosed. The proposal should also contain the details of the key personnel viz. their name, qualification, expertise area, experience and years of association with the firm.



Appendix A**Firms credentials (to be filled by each of the constituent firm in case of JV).**

1. Name of the packages to be applied for:-
2. Year of establishment of firm.

Consultant	Year of Establishment	Country	Type of Organisation			
			Individual	Partnership	Corporation	Other
Lead Partner						
Other Partner						

3. Office/Business Address/Telephone nos./Cable Address.
4. Consulting firms former name and year of establishment.
5. Narrative description of firms (Use other sheet, if necessary)
6. Name of, not more than two (2) principals who may be contacted with title and telephone number /fax number.
7. Number of Personnel in the Organisation.

Discipline	Number
Key Personnel	With experience more than 10 years and associated with the firm with at least 1 year.

8. Financial Statement of the last three years.

Sl. No.	Particulars	2004-2005	2003-2004	2002-2003
i.	Annual turnover from Consulting business			
ii.	Total Assets			
iii.	Current Assets			
iv.	Total Liabilities			
v.	Current Liabilities			
vi.	Net Worth			
vii.	Working Capital			
viii.	Net Profit.			

- Note: i) The amount shall be stated in INR.
 ii) The currency conversion rate for the respective years shall be mentioned for other international currencies.
 iii) The application with amount stated in currencies other than INR shall be treated as non responsive.

9. HIGHWAY PROJECTS HANDLED BY THE CONSULTING FIRMS DURING THE LAST SEVEN YEARS (Only those projects to be included, which are supported by the certificate of the Engineer/Employer mentioning that the consultancy work has been completed satisfactorily or has been substantially completed in case of

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project supervision works (substantial completion means 90% works in financial value having been executed) satisfactorily.

10. Supporting Statements to Employer's Certificates may be furnished giving full details of the projects carried out as below:

Sl. No.	Projects Name/Year	Type of Services Rendered	Length of Projects (kms)	Employer	Duration.
1	2	3	4	5	6

Name of the Project: _____

Owner's Name and Address: _____

Completion (Actual and Estimated): _____

Description of Project: _____

Description of Services Provided by the Firm: _____

I certify that the information in the above Expression of Interest forms is true to the best of my knowledge.

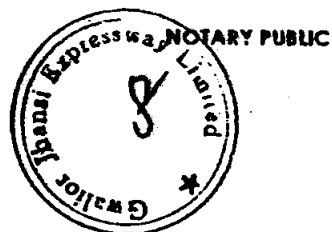
PRESIDENT/MANAGING DIRECTOR OR
AUTHORIZED SIGNATORY#

SUBSCRIBED AND SWORN to before me this _____

date of _____

200 _____ at _____

#Please attach Power of Attorney as described or valid authorisation.



SECTION 4. FORMAT FOR SUBMISSION OF TECHNICAL PROPOSAL

Appendix B-1	Technical proposal submission form.
Appendix B-2	Firm's references
Appendix B-3	Firm's comments and suggestions on the Terms of Reference and on data, services, and facilities to be provided by the NHAI.
Appendix B-4	Approach paper on methodology and work plan for performing the assignment.
Appendix B-5	Composition of the team and task(s) of each team member
Appendix B-6	Curriculum vitae of proposed professional staff.
Appendix B-7	Time schedule for deployment of professional personnel
Appendix B-8	Activity (works) schedule.



APPENDIX B-1

Technical Proposal submission Form.

FROM (Name of Firm)

To: (Name and Address of Client)

Ladies/Gentlemen:

Subject:

We, the undersigned, offer to provide the consulting services for the above in accordance with your Request for Proposal dated (Date), and our Proposal. We are hereby submitting our Proposal, which includes this Technical Proposal and a Financial Proposal sealed under a separate envelope.

If negotiations are held during the period of validity of the Proposal i.e. before (Date) we undertake to negotiate on the basis of the proposed staff. Our Proposal is binding upon us and subject to the modifications resulting from contract negotiations.

We understand you are not bound to accept any Proposal you receive

We remain,

Yours sincerely,

Authorised Signature

Name and Title of Signatory:

Name of Firm:

Address:



APPENDIX B-2 : FIRM'S REFERENCES**Relevant Services Carried Out in the Last Seven Years That Best Illustrate Qualifications**

Using the format below, provide information on each reference assignment for which your firm/entity, either individually as a corporate entity or as one of the major companies within an association, was legally contracted.

Assignment Name :		Country :
Location within Country :		Professional Staff Provided by Your Firm:
Name of Client :		No. of Staff :
Start Date (Month/Year)	Completion Date (Month/Year)	No. of Staff-Months :
		Approx. Value of Services (in Current INR)
Name of Associated Consultants, if any:		No. of Months of Professional Staff. Provided by Associated Consultants :
Name of Senior Staff involved :		
Narrative Description of Project :		
Description of Actual Services Provided by Your Staff :		

Firm's Name : _____

Note: In case of claiming experience of Highway projects completion certificate from employer must be enclosed.



APPENDIX B-3 : COMMENTS AND SUGGESTIONS OF CONSULTANTS ON THE TERMS OF REFERENCE AND ON SERVICES AND FACILITIES TO BE PROVIDED BY THE NHAI

On the Terms of Reference :

- 1.
- 2.
- 3.
- 4.
-

On the services and facilities to be provided by the NHAI

- 1.
- 2.
- 3.
- 4.
-



**APPENDIX B-4 : APPROACH PAPER ON METHODOLOGY AND WORK PLAN FOR
PERFORMING THE ASSIGNMENT**



APPENDIX B-5 : COMPOSITION OF THE TEAM PERSONNEL, AND TASK(S) OF EACH TEAM MEMBER**1. Technical/Managerial Staff**

Sl. No.	Name	Position	Task
1			
2			
3			
4			
..			
..			

2. Support Staff

Sl. No.	Name	Position	Task
1			
2			
3			
4			
..			
..			



APPENDIX B-6 : FORMAT OF CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

Proposed Position :
 Name of Firm
 Name of Staff
 Profession
 Date of Birth :
 Years with Firm/Entity : Nationality :
 Membership of Professional Societies
 Detailed Task Assigned :

Key Qualifications :

[Give an outline of staff member's experience and training most pertinent to tasks on assignment. Describe degree of responsibility held by staff member on relevant previous assignments and give dates and locations. Use about half a page.]

Education :

[Summarise college/university and other specialised education of staff member, giving their names, dates attended, and degrees obtained. Use about one quarter of a page.]

Employment Record :

[Starting with present position, list in reverse order every employment held. List all positions held by staff member since graduation, giving dates, name of employing organisations, titles of positions held, and locations of assignments. For experience in last ten years, also give types of activities performed and client references, where appropriate. Use about three-quarters of a page.]

Languages :

[For English language indicate proficiency : excellent, good, fair, or poor; in speaking, reading, and writing.]

Certification

I, the undersigned, (Name and Address) certify that I have not left any assignment with the consultants engaged by NHAI / contracting firm (firm to be supervised now) for any continuing work of NHAI without completing my assignment. I will be available for the entire duration of the current project (named,....). if I leave this assignment in the middle of the completion of the work, NHAI would be at liberty to debar me from taking any assignment in any of the NHAI works for an appropriate period of time to be decided by NHAI. I have no objection if my services are extended by NHAI for this work in future.

..... Date :
 [Signature of staff member or authorised representative of the Firm]
 Day/Month/Year

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APPENDIX B-7: TIME SCHEDULE FOR PROFESSIONAL PERSONNEL**A. Activity Schedule**

APPENDIX B-7: TIME SCHEDULE FOR PROFESSIONAL PERSONNEL SI. No.	Name	Position	Month wise Program (in form of Bar Chart) [1st, 2nd, etc. are months from the start of assignment]												
			1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th and subsequent years	Number of Months
1															Subtotal (1)
2															Subtotal (2) -
3															Subtotal (3)
4															Subtotal (4)
-															-
-															-

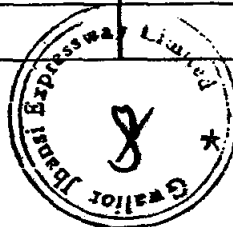


APPENDIX B-8: ACTIVITY (WORKS) SCHEDULE**A. Activity Schedule**

APPENDIX B-8: ACTIVITY (WORKS) SCHEDULE		Monthwise Program (in form of Bar Chart) [1st, 2nd, etc. are months from the start of assignment]											
Sl. No.	Item of Activity (Works)	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th
1												
2												
3												
4												
-												
-												

B. Completion and Submission of Reports

S.No	Reports :	Programme : (Date)
1	Monthly reports (Design and Construction)	
2	Quarterly Reports	
3	Various others reports as provided in the Concession Agreement such as Completion Report	



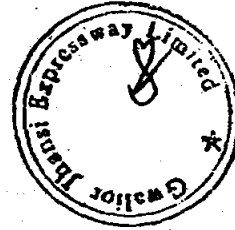
SECTION 5. FORMAT FOR SUBMISSION OF FINANCIAL PROPOSAL.

Appendix C-1 Financial proposal submission form

Appendix C-2 Summary of costs

Appendix C-3 Breakdown of local currency costs

Appendix C-4 Breakdown of foreign currency cost.



APPENDIX C-1 : FINANCIAL PROPOSAL SUBMISSION FORM**FROM : (Name of Firm)****TO :**National Highways Authority of India G-5&6,
Sector-10, Dwarka New Delhi (India) -
110045**Subject :**

We, the undersigned, offer to provide the consulting services for the above in accordance with your Request for Proposal dated [Date], and our proposal. Our attached financial proposal is for the sum of [Amount in words and figures]. This amount is exclusive of the local taxes which we have estimated at [Amount in Words and Figures].

Our financial proposal shall be binding upon us subject to the modifications resulting from contract negotiations, up to the expiration of the validity period of the proposal, i.e., [Date].

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988".

Commission and gratuities, if any, paid or to be paid by us to agents relating to this proposal and contract execution, if we are awarded the contract, are listed below :

Name and Address of Agents	Amount and Currency	Purpose of Commission or Gratuity
.....
.....

We understand you are not bound to accept any proposal you receive.

We remain,

Yours sincerely,

Authorised Signature :

Name and title of Signatory :



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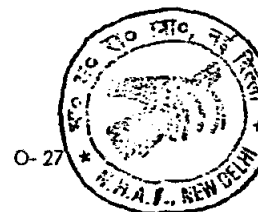
APPENDIX C2: SUMMARY OF COSTS

No.	Description	Amount (:LC)*	Amount (FC**)
I	Local Consultants		
II	Remuneration for Local Key Personnel		
III	Supporting Staff		
IV	Transportation		
V	Duty Travel to Site		
VI	Office Rent		
VII	Office supplies, Utilities and communication		
VIII	Office Furniture and Equipment		
IX	Reports and Document Printing		
X	Survey Equipment		
	Subtotal Local Consultants		
	Foreign Consultants		
F-I	Remuneration for Expatriate Staff		
F-II	Mobilization and Demobilisation		
F-III	Accommodation for Consultants' Staff		
F-IV	Other Costs		
	Subtotal Foreign Consultants		
	Total Cost Net of Tax (Local & Foreign Consultants)		
Local Taxes and Duties	Tax payable in India on fees for technical services provided by foreign consultants, including duties on equipment imported.		
	Consultancy Services Tax payable in India		
	TOTAL COSTS (Including Tax)**		

LC* Local Currency FC** in US Dollar (1+1)

Note: The ceiling cost of the consultancy is as shown in the Summary of Costs. Payments will be made as per stipulations of the Conditions of Contract.
National Highways Authority of India Request for Proposal

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II. Support Staff

No.	Position	Name	Staff Months	Billing Rate ()	Amount ()
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
				Total :	

III Transportation (Fixed costs)

S.No	Description	Qty.	Nos. of months	Rate/ Month	Amount
1	The vehicles provided by the Consultants shall include the cost for rental, drivers, operation, maintenance, repairs, insurance, etc. A. For use of consultants				
		Total			

IV. Duty Travel to Site (Fixed Costs) Trips

TRIPS	NO	RATE	AMOUNT

V. Office Rent (Fixed Costs)

The rent cost includes maintenance, cleaning, repairs, etc.
 ___ months x

Total



VI. Office Supplies, Utilities and Communication (Fixed Costs)

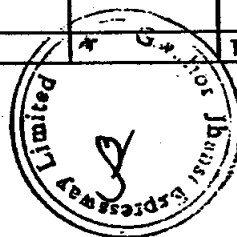
No	Item	Months	Monthly Rate	Amount in Rs.
1.	Office Supplies			
2.	Drafting Supplies			
3.	Computer Running Costs			
4.	Domestic and International Communication			

TOTAL :

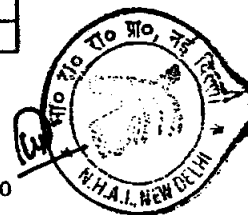
VII. Office Furniture and Equipment (Rental)

No.	Description (*)	Unit	Quantity	Rate ()	Amount ()
1	Office Furniture (Purchase)				
2					
3					
4					
5					
6					
7					
8					
9					
10					
1	Office Equipment (Purchase)				
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
			Total		

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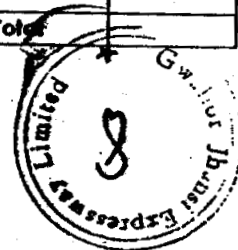
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VII. Reports and Document Printing

No.	Description*	No. of Volumes	No. of Copies per Volume	Rate per Copy ()	Amount
1	Monthly reports (Design and Construction)				
2	Quarterly Reports				
3	Various others reports as provided in the Concession Agreement such as Completion Report				
				Total	



APPENDIX C-4 BREAK UP OF COSTS IN FOREIGN CURRENCY

No.	Description	Currency*	Amount
I.	Remuneration for Expatriate Staff		
II.	Mobilisation and Demobilisation		
	1. International Airfares		
	2. Inland travel in Home Country		
	3. Inland Travel in Overseas Country		
	4. Excess Luggage Allowance		
	5. Unaccompanied Luggage Allowance		
	6. Relocation/Storage Allowance		
	7. Miscellaneous Travel Expense		
	8. Temporary Lodging during Mobilisation/demobilization		
	9. Establishment		
	10. Exit charges		
III	Accommodation of Consultant's Expatriate Staff		
IV	Other costs		
	TOTAL COSTS ()		

* In US Dollar plus local currency (INR).



1. Remuneration to Expatriate Staff

No.	Position	Name	Years 1 to 3		
			Rate ()	SM	Amount ()
			Total:		

2. Mobilization and Demobilization

1. **International Airfares (Reimbursable)
(Economy Class)**

Position	Round trips	Dependents
----------	-------------	------------

Total:

Total costs for round trips home office to site at cost per person per round trip conform to the official IATA economy class fares

2. Inland Travel in Home Country (Fixed Rate)

Total cost for travel between consultants' Head office and airport

3. Inland Travel in Overseas Country (Fixed Rate)

local cost for travel from the airport to hotel

$$\frac{x}{x^2 - 1} = \frac{x}{(x - 1)(x + 1)}$$

1. **Excess Luggage Allowance (Reimbursable)**

At cost per person per single trip to conform to the Official IATA rates

 x kg. x

- ## 2. Unaccompanied Luggage Allowance (Fixed Rate)

At cost per family per round trip

 x kg x

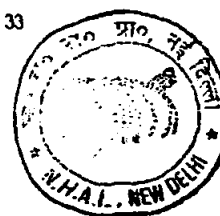
- ### 3. Relocation/Storage Allowance (Fixed Rate)

For long term staff with an assignment of more than 12 months
- family(es) x _____

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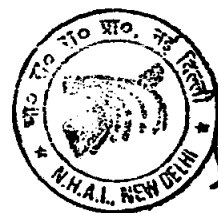
4. Travel Documents and Miscellaneous Costs (Fixed Rate)

Travel documents, visa, health certificates, etc.

- a) Short term staff, first trip
 ___x___
- b) Short term staff subsequent trips
 ___x___
- c) Long term staff first trip
 - Family (es) x___
- d) Long term staff subsequent trip
 - Family(es) x___
 Total _____

8. Temporary Lodging during Mobilization/Demobilization (Reimbursable)
 ___Family x___ day(s) x___9. Establishment allowance (Fixed Rate)Expenses for legal documents in country extension
 Of permits, work permits, etc.

- (a) For short term staff assignments less than
 6 months
 ___x___
- (b) Long term staff
 ___person(s) x___ trip (s) _____
- Total: _____

10. Exit Charges (Reimbursable)Allow for expatriate staff with assignments of
 More than 6 months _____ per exit at cost
 ___person(s) x___ trip(s) _____

3. Accommodation for Consultants' Expatriate Staff (Fixed Rate)**1. Per Diem allowance Short Term Staff**

Total _____ staff months of _____ days is _____ days
Reimbursement of the cost will be on actual day basis.
_____ days x _____

2. Housing of Long Term Expatriate Staff (Fixed Rate)

Housing including furniture, costs for utilities and maintenance has to be Arranged for 1 family

_____ months x _____

4. Other Costs (Reimbursable)

Purchase of documents

Budget for purchase of documents, books, maps Software, International standards etc. to be Reimbursed at cost. Allow as ceiling amount

TOTAL _____



SECTION 6: TERMS OF REFERENCE**1. PROJECT BACKGROUND**

- 1) The Govt. of India (GoI) through Ministry of Shipping, Roads & Highways (MoSRT&H) is contemplating to enhance the traffic capacity and safety for efficient transportation of goods as well as passenger traffic on the heavily trafficked National Highway sections. The Project under consideration aims at developing section of NH-___ as mentioned in Schedule A, by widening the existing 2-lanes to 4/6 lanes dual carriageway, including strengthening of the existing 2-lanes on Build, Operate and Transfer (BOT) basis/ BOT (Annuity) basis.
- 2) NHAI has started the process of Land Acquisition for acquiring land to accommodate the Project facilities along the Project corridor, and shall make the Land available to the Concessionaire as per the provisions of the concession agreement.

NHAI will bear the cost of land to be acquired on the award of concerned Revenue Authority.

- 3) The Concessionaire shall make necessary arrangements clearing the encumbrances along the Project corridor under the directions of the concerned agencies and officials at his own cost.
- 4) The Concessionaire shall operate and maintain the Project Highway by itself, or through O&M Contractors including tolling contractor, if any, after carrying out improvements to comply with Standards and Specifications spelled out by the NHAI in the Concession Agreement.
- 5) NHAI intends to appoint an Independent Consultant (IC) to oversee the activities of the Concessionaire during Design, Construction, Operation and Maintenance of the Project Highway.

2. OBJECTIVES

The objectives of consultancy service are to:

- i. Act independently and on behalf of the NHAI to review all activities associated with Design Review, Construction and O&M to ensure compliance of requirements of Concession Agreement in order to have a sound Project.
- ii. Report to NHAI on the financial and technical aspects of the project, after visiting the site at least once a week.
- iii. Assist the parties to the Concession Agreement in arriving at an amicable settlement of dispute.
- iv. Act, if required on behalf of the lenders and fulfill various reporting requirements of the lenders.

3. SCOPE OF SERVICES

The Project Highway provides for widening and strengthening of existing two lanes Section of NH-___ and its Operation and Maintenance (O&M) on BOT (Annuity) basis. The work also includes the widening of existing bridges and culverts and construction of new bridges and culverts for new carriageway. The Project Highway shall include but not be limited to the following:

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- Road works
- Fee Collection system including buildings and related structures, hardware and software
- Communication systems
- Administration and Maintenance Depots
- Rest Area and Fuel and Service facilities
- Rest areas
- Lighting system
- Interchanges
- Bridges
- Service Roads
- Lay byes, Bus bays
- Traffic safety, Landscaping, arboriculture and other Project facilities.

The Concession Agreement envisage the appointment of an Independent Consultant (IC) by the National Highways Authority of India (NHAI). The IC shall be, in principle, responsible for review of Designs, Drawings, Construction, Progress Monitoring, affirmation of all certifications done by the Concessionaire, etc. The IC shall be involved in day-to-day implementation of the Project. The Concession Agreement also envisages the appointment of a Consultant by the Concessionaire to undertake the design related work and the day-to-day technical audit and quality control of Construction, monitoring of progress, certification of works of the Contractor(s) to be appointed by the Concessionaire for the Project Highway.

The Independent Consultant shall supervise that all the requirements of the Concession Agreement and various schedules are met by the Concessionaire and in case of any discrepancy/ deviations, he shall inform NHAI and the Concessionaire. The responsibility of the IC during various stages of Design Review, Construction and Operation and Maintenance shall be as follows but not be limited to :

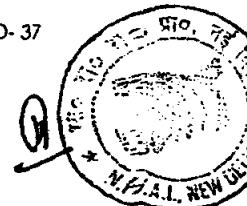
3.1 Design Review Stage

- i) Review the adequacy of the geotechnical and sub-soil investigations for road, bridge and other structures and building works, hydrological investigation and the topographical survey.
- ii) Review the Design and working drawings prepared for the construction of various components of the highway, bridges / structures, analysis of rates, estimates, reports and other deliverables.
- iii) To ensure the design and working drawings prepared for the construction of various components of the highways, bridges/structures are in accordance with the minimum requirements specified in Schedule A, B, C & D.
- iv) Review the impact of widening proposal on the Archaeological structures, if any.
- v) Review the Project report prepared by the Concessionaire, with respect to the traffic, toll management (only for BOT Projects), traffic management, etc.
- vi) Review the implementation schedule of Engineering, Design, Procurement and Construction of the Project submitted by the Concessionaire.
- vii) Review the Planning and Design of way-side amenities, toll plazas, toll collection system (only for BOT Projects), communication facilities, emergency relief arrangements, traffic operation and safety arrangements.
- viii) Review all Project contracts including Detailed Engineering and Design Consultancy Contract, Construction Supervision Consultancy contract, any other EPC contract, O & M Contract and Tolling contract (only for BOT Projects), made by the Concessionaire.

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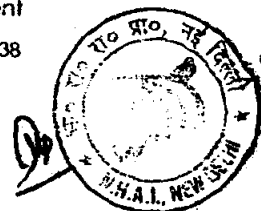


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- viii) Review the environmental management plan for the Project Highway during Construction and Operation and Maintenance phases.
- ix) Review quality assurance and quality control provisions during the design, construction and maintenance stages.
- x) Audit the safety of the Project Highway both during Construction and Operation and Maintenance stages.
- xi) To mediate and assist in resolving disputes between NHAI and Concessionaire.
- xii) Provide Management Information System to NHAI.

3.2 Construction Stage

- 3.2.1 The duties of the IC are to supervise the works on a day-to-day basis and to approve the materials and workmanship of the works. During the construction phase it should be made mandatory that, IC's key staff should check at least 25-30% of Request for Inspection (RFI) pertaining to each item of construction and close them. IC's Team Leader should at least close 5-10% of RFI as per such provisions of Inspection in the Concession Agreement. He/she shall have no authority to relieve the Concessionaire of any of their duties or to impose additional obligations. The IC shall administer the works contracts and ensure that the Contractual Clauses, whether related to quality or quantities of works, are respected. Request for Inspection (RFI) is a formal application from the Concessionaire (or EPC contractor) to Independent Consultant to examine all the aspects of work or activity pertaining to construction or development of the Project Highway. Submission of a RFI for construction activity must be made a minimum of 48 hours in advance of the time the Concessionaire (or EPC contractor) plans to begin work on the RFI activity.
- 3.2.2 Review and approve works programme.
- 3.2.3 Review the material testing results and Mix Designs and to order special tests of materials and/or completed works, and/or order removal and substitution of substandard materials and/or works as required.
- 3.2.4 Review quality assurance and quality control during Construction period.
- 3.2.5 Ensure that the Construction work is accomplished in accordance with the technical specifications.
- 3.2.6 Identify Construction delays and recommend to the NHAI the remedial measures to expedite the progress.
- 3.2.7 Review and certify the 'As Built' drawings for each component of the works prepared by the Concessionaire.
- 3.2.8 Review the safety measures provided for the traffic and Project workers.
- 3.2.9 Determine any extension of the Project Completion Schedule and the Concession period, to which the Concessionaire is entitled and shall notify the NHAI accordingly.
- 3.2.10 To mediate and assist in resolving disputes between NHAI and Concessionaire during Construction stage.
- 3.2.11 Assist the NHAI in arriving at any cost variation and its impact on Concession Agreement.
- 3.2.12 Evolve MIS and provide it to the NHAI
- 3.2.13 Issue Completion Certificate after checking the results of prescribed tests, with the approval of NHAI.
- 3.2.14 Issue Provisional Certificate duly appended with a list of outstanding items (Punch List, as defined in the Concession Agreement) established after joint inspection with the Concessionaire, if the Concessionaire requests for it, after approval of NHAI.
- 3.2.15 In case of Change in scope, while calculating the cost implications to the Concessionaire of complying with such Change of Scope Notice, the rates shall be worked out by based on the concerned State PWD (NH) current



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schedule of rates based on MORTH data book. In case an item is not covered under the above-mentioned schedule of rates, the rate of such item shall be worked out by the Concessionaire on the basis of the prevailing market rate so far as found reasonable and competitive by the IC.

- 3.2.16 To direct the Concessionaire in all matters concerning construction safety and care of the works and if required, to request the concessionaire to provide any necessary lights, guard, fencing etc.

3.3 Operations and Maintenance Stage

Maintenance shall include cleaning, replacement of equipment/consumables, roadside facilities, horticultural maintenance and repairs to equipment, pavements, bridges, structures, HTMS and other civil works. Maintenance shall not include the extension of any existing pavements, bridges, structures and other civil works unless part of the Project Highway.

- 3.3.1 Review work plan and schedules of various operation and maintenance activities.
- 3.3.2 Review Operation and Maintenance manual prepared by the Concessionaire.
- 3.3.3 Review the performance of Operation and Maintenance (O & M) activities including equipment, service, traffic operation and safety, toll plazas and fees collection system (only for BOT Projects), landscaping, environmental issues and way side amenities.
- 3.3.4 To mediate and assist in resolving disputes between NHAI and Concessionaire during O&M stage.
- 3.3.5 Initiate necessary action to undertake maintenance obligations of the Concessionaire at risk and cost of the Concessionaire in the event of his failure to carry out O&M.
- 3.3.6 Undertake audit of the traffic using the Project Highway at least once a month.
- 3.3.7 Review and inspect the Project Highway at least once a month during the O&M period and issue an Inspection Report of such inspections.
- 3.3.8 Review the accident record on the Project Highway and suggest remedial measures.

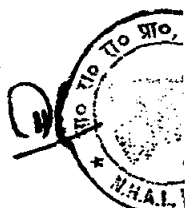
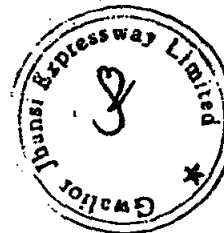
3.4 Transfer/Termination

Satisfy itself that the entire divestment requirement have been met by the Concessionaire.

- 3.5 All other activities as per provisions of the Concessionaire Agreement

4. INTERACTION WITH NHAI

The Independent Consultants shall interact with the NHAI on a regular basis. NHAI shall generally hold meetings every month to review the progress etc. during the phase of Design and Construction, and every second month during the Operation and maintenance stage. Within 30 days of the receipt of the Drawings, the Independent Consultant shall review the same and convey its comments/observations to the Concessionaire with particular reference to the conformity or otherwise with the specifications and standards set forth in the Agreement.



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5. REPORTING REQUIREMENT

The Independent Consultants shall prepare and submit to the NHAI three copies and Concessionaire two copies each of the following reports.

- a. Design Review Phase
 - Monthly Progress Report.
- b. Construction Phase
 - Monthly and Quarterly Inspection Report covering all aspects such as Progress Monitoring, Quality Assurance (QA)/Quality Control (QC) etc.
- c. Operation and Maintenance Phase
 - Monthly and Quarterly report on existing condition of facility including advise on all aspects of Operation And Maintenance, Toll Booths, Bridges or other Structures, Traffic Management & Safety, Telephone, Ambulance, etc.
 - Monthly report on audit of the traffic using the Project Highway at least once a month.
 - Monthly and quarterly reports for Lane Availability (Including non-availability) (only in case of BOT (Annuity))
 - Certification of Annuity Claims (only in case of BOT (Annuity))
- d. Various other reports as provided in the Concession Agreement such as Completion Report.

6. PERFORMANCE CLAUSE

Independent Consultants shall be expected to fully comply with all the provisions of the 'Terms of Reference', and shall be fully responsible for supervising that Designs, Construction and maintenance and operation of the facility takes place in accordance with the provisions of the Concession Agreement and other schedules. Any failure of the Independent Consultant in notifying to NHAI and the Concessionaire on non-compliance of the provisions of the Concession Agreement and other schedules by the Concessionaire, non-adherence to the provision of ToR and non-adherence to the time schedule prescribed under ToR shall amount to non-performance.

7. CONSULTANT'S PROPOSAL

- 7.1 Apart from the list of the key professionals, as mentioned herein below, the Independent Consultant shall appoint its authorised representative, who shall issue on behalf of the IC, the Provisional Completion Certification and Completion Certificate along with the Team Leader and shall carry out any such task as may be decided by NHAI. The IC shall take prior approval of NHAI before issuing Provisional Completion Certification and Completion Certificate. The proposal submitted shall also include the name of the authorised representative along with the authorisation letter and power of attorney.
- 7.2 List of key personnel to be fielded by the Consultants shall be as below:
 - i. Team Leader Cum Senior Highway Engineer
 - ii. Senior Pavement Specialist
 - iii. Senior Bridge Design Engineer
 - iv. Highway Design Engineer
 - v. Bridge/Structural Engineer
 - vi. Highway Engineer
 - vii. Road Safety Expert
 - viii. Senior Quality cum Material Expert

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- 7.3 In addition to above, consultants are required to propose other key personnel, sub-professional staff and other field engineers as detailed in Enclosure B. and the minimum qualification requirements for the same is enclosed in Enclosure-A.
- 7.4 Broad job-description and minimum qualification for key personnel mentioned above is enclosed as Enclosure-A. However, higher marks shall be accorded to the Candidate with higher relevant qualification and experience. The Consultant should feel free to submit their proposal on the basis of the man-months which they consider to be necessary to undertake the assignment. All the key personnel mentioned in para 7.1 above shall be evaluated at the time of evaluation of technical proposal. Consultants are advised in their own interest to frame the technical proposal in an objective manner as far as possible so that these could be properly assessed in respect of points to be given as part of evaluation criteria. The bio-data of the key personnel should be signed on every sheet by the personnel concerned and the last sheet of each bio-data should also be signed by the authorised signatory for the Consultant. The key personnel shall also certify at the end of their bio-data proforma that they have not left any of the NHAI works without completing of their assignment and have not accepted any other offer at the time of signing of the bio-data and as such shall be available to work with the Independent Consultant, if the Project is awarded. In case the key personnel leaves the assignment without approval of NHAI, NHAI would be at liberty to take any appropriate action against that key personnel including debarment.

8. PERIOD OF SERVICES

- 8.1 The services of an Independent Consultant will be in phases as per Article XX - Independent Consultant, of Concession Agreement.
- 8.2 The appointment of the Independent Consultant shall initially be for a period of 48 months. Estimated Design and Construction schedule for completion of the Project for commercial operation is 30 months. The proposed manpower deployment for this period shall be matching the activities to be performed during the said period. The time frame for services during the deployment of key personnel during this period shall be as shown in Enclosure B.
- 8.3 Thereafter, the services of the Independent Consultant shall be for a maximum period of 3 years each time till completion of the Concession period and transfer of the Project Highway. The deployment of key personnel during the said period(s) shall be decided by NHAI.



Enclosure A

MINIMUM QUALIFICATION OF KEY PERSONNEL**TEAM LEADER CUM SENIOR HIGHWAY ENGINEER**

This is the senior most position and the expert engaged as the team leader shall be responsible for reviewing the entire Project preparation and implementation activities of the Concessionaire. He shall check all the Designs being prepared by the Concessionaire, ensure execution of works on site as per specification and standards, and continuously interact with the NHAI and the Concessionaire. He shall undertake Project site visits and shall guide, supervise, coordinate and monitor the work of other experts in his team as well as those of the Concessionaire. The candidate should have a proven record of supervising, organising and managing of Project preparation and construction of highway projects of large magnitudes, as defined below, financed by international lending agencies and others. Knowledge of Project management shall be an added advantage.

This position requires a Senior Highway Engineer who shall be a graduate in Civil Engineering with higher qualifications and specialisation in highway engineering. He should have a minimum 20 years of experience of highway engineering including 5 years of experience in similar capacity. He should have involved for at least 5 years for Highway Development Projects in developed countries. Developed countries refer to European countries, North American countries, Australia, New Zealand, Japan, Malaysia, Singapore, Hong Kong, South Korea & some Gulf countries like Saudi Arabia, UAE & Kuwait etc.

He should have handled as Team Leader or similar capacity at least two Project Preparation and Construction supervision work of major highway Project of four laning/ six-laning/ expressway costing more than Rs. 1500 million or of at least 40km length.

SENIOR PAVEMENT SPECIALIST

The expert shall be continuously interacting with the Concessionaire, to ensure life cycle cost effectiveness and viable design of pavement including appropriate rehabilitation / strengthening of the existing two lane pavement which is significantly distressed. He shall also be responsible for ensuring complete adherence to maintenance standards during Construction and Operation period. Thus, the position requires a pavement specialist with thorough knowledge and understanding of international 'best practices' in the field of Design, Construction and maintenance of flexible/rigid type of pavements including latest codal stipulations and specifications.

The candidate should be a graduate in Civil Engineering with higher qualification in Highway/Transportation Engineering. He should have a minimum of 15 years of professional experience of pavement Design, Construction and its maintenance out of which 5 years should be in similar capacity. The candidate should have involved in at least 2 major highway projects of four-laning/ six-laning/ expressway, as Senior Pavement Engineer, costing more than Rs. 1500million or of at least 40km length.

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SENIOR BRIDGE DESIGN ENGINEER

The Senior Bridge Design Engineer shall be responsible for checking the designs of bridges, ROBs, interchanges and any other structure to be constructed in the Project highway. He shall also review the rehabilitation measures to be proposed by the Concessionaire for existing structures based on site condition and structural requirement basis. His expertise shall include computer aided design methods for Civil/Structural Engineering with particular reference to Structural design.

He should be a graduate in Civil Engineering from a recognized University. Post Graduation in Structural Engineering would be preferred. Bridge Design Engineer should have a minimum of 15 years experience in Bridge Design out of which a minimum of 5 years experience in similar capacity is required. He should have handled at least 4 major highway bridges of length not less than 200meters. Experience in other countries, involvement in innovative bridge designing works with use of computer aided software and involvement in designing of bridges more than 200m span would be preferred.

HIGHWAY DESIGN ENGINEER

The Highway Design Engineer shall be responsible for the review of highway designs and drawings using sophisticated computer software. Should be a graduate in Civil Engineering from a recognized University (higher qualifications will be preferable); His expertise shall include computer aided design methods for Civil/Highway Engineering with particular reference to CAD application to the geometric design for highway rehabilitation and/or upgrading projects.

Highway Design Engineer should have a minimum of 15 years professional experience out of which a minimum of 10 years in Highway Designing work with a minimum of 5 years in major highway 4 lane projects of costing atleast Rs 600million or having length of more than 15kms. He should have handled at least 2 major road four laning improvement projects. He should have exposure of computer software programmes for design of highways. Experience in other countries would be preferred.

BRIDGE /STRUCTURAL ENGINEER

The Bridge Engineer shall be responsible for supervising the works of bridges, interchanges to be constructed by the Concessionaire for this project. He shall also inspect the bridge rehabilitation and repair works to be undertaken by the Concessionaire.

The position requires a graduate in Civil Engineering, (preference would be given to Post Graduation in Structural Engineering). He should have minimum 15 years experience out of which at least 10 years in Construction of bridges/interchanges/any other structures including rehabilitation. He should have supervised at least two major highway bridges of length not less than 200meters. The candidate should have a thorough understanding and experience with international 'best practices', and of modern bridge construction technology.

HIGHWAY ENGINEER

The Highway Engineer shall be responsible for supervising the works of highways, to be constructed by the Concessionaire for this project. He shall also inspect periodic and

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routine maintenance works to be undertaken by the Concessionaire.

The position requires a graduate in Civil Engineering, (preference would be given to Post Graduation in Highway Engineering). He should have minimum 15 years experience out of which at least 10 years in Construction of highways. He should have supervised at least two major highway projects of cost not less than Rs 1000million or length not less than 30kms. The candidate should have a thorough understanding and experience with international 'best practices', and of modern highway construction technology.

ROAD SAFETY EXPERT

The candidate should be a graduate in Civil Engineering preferably Post Graduation in Traffic/Transportation/Safety Engineering. He should have at least 15 years of experience out of which 5 years should be in road safety works. The candidate should have undertaken at least 2 projects of roads safety audits, including at least 1 in design stages. The candidate should have international exposure in the fields of road safety management plan. Preference would be given to the candidates who have been involved in preparation of road safety policy for any national/state/city. The experience for preparing road safety management plan for inter urban highways in both developed and developing countries would be desirable.

SENIOR QUALITY/MATERIAL EXPERT

The Quality/Material Expert shall review the test results of bore holes, quarry and borrow area material to find out their strength characteristics and suitability for using them in construction. He shall inspect the Concessionaire's field laboratories to ensure that they are adequately equipped and capable of performing all the specified testing requirements of the contract. He shall look into the quality assurance aspect of the construction works and supervise the setting-up of the various Concessionaire's rock crushers and bituminous mixing plants to ensure that the specified requirements for such equipments are fully met.

The position requires a graduate in Civil Engineering, preferably Post Graduation in Geotechnical Engineering. He should have a minimum of 15 years of professional engineering experience including 5 years in similar capacity for major highway projects. He should have handled at least 2 similar highway projects of 4lane costing not less than Rs 1500million as Material/Quality Engineer. He should have exposure quality assurance programs in highway projects using modern technology.

SUB PROFESSIONAL

SURVEY ENGINEER

The candidate should be Graduate in Civil Engineering/Survey Engineering. He should have at least 6 years experience in the field of surveying out of which 3 years should be for highway projects. He should have involved in at least 1 similar highway projects. This position requires thorough understanding of modern computer based method of surveying with total station digital level etc.

ASSISTANT HIGHWAY ENGINEER

The Candidate should be Graduate in Civil Engineering with 3 years experience. He should have handled at least 1 road project.

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CAD EXPERT

He should be Graduate in Civil Engineering/Computer Science having experience in computer related design method for highway engineering. The incumbent should have 3 years experience and should have handled at least 1 road project.

ENVIRONMENTAL ENGINEER

The Candidate should be Graduate in Civil Engineering/Environmental Engineering or other relevant qualification. He should have at least 6 years experience out of which 2 years in highway projects. He should have good knowledge of MOEF guidelines/requirements for mitigation measures.

ASSISTANT BRIDGE ENGINEER

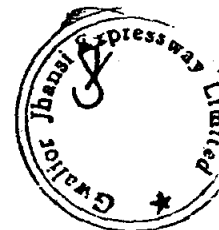
The Candidate should be Graduate in Civil Engineering with 3 years experience. He should have handled at least 1 major bridge project of length not less than 100meters.

ASSISTANT QUALITY CUM MATERIAL ENGINEER

The Candidate should be Graduate in Civil Engineering with 3 years experience or diploma in Civil Engineering with 5 years experience. He should have handled at least 1 major road project of either National Highway/externally funded State Highway Project.

ELECTRICAL ENGINEER

The Candidate should be Graduate in Electrical Engineering from recognised institute. He should have at least 6 years experience.



Enclosure B

**MANMONTH INPUT FOR KEY PERSONNEL OF
INDEPENDENT CONSULTANT**

S.No.	Key Personnel	Man month in Construction	Man month in O & M
1.	Team Leader Cum Senior Highway Engineer	33	3
2.	Senior Pavement Specialist	7	2
3.	Senior Bridge Design Engineer	7	0
4.	Highway Design Engineer	6	0
5.	Bridge/Structural Engineer	30	6
6	Highway Engineer	30	12
7	Road Safety Expert	3	1
8	Senior Quality cum Material Expert	30	3
	Sub Total	146	27
	Sub Professional		
1.	Survey Engineer	30	2
2.	Assistant Highway Engineer	2 X 30	12
3.	CAD Expert	8	0
4.	Environmental Engineer	8	2
5.	Assistant Bridge Engineer	2 X 30	6
6.	Assistant Quality cum Material Engineer	2 X 30	6
7.	Electrical Engineer	6	2
	Sub Total	232	30
	Total	378	57

Note: The qualification and experience of Sub Professional would not be accounted in the evaluation. However, Consultant would have to get their CVs approved from NHAI before mobilisation. The other inputs like traffic engineer, financial expert, legal expert etc. would also be provided by the Consultant as a Head Quarters input, for which no separate payment will be made by NHAI.



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SCHEDULE Q
Escrow Account Agreement

SCHEDULE Q

**DRAFT
ESCROW ACCOUNT AGREEMENT**

Among

..... (THE COMPANY)

And

.....

As Lenders Representative

And

.....

As Escrow Agent

And

NHAI

(Subject to terms of the facility Agreement(s) between the Concessionaire and Senior Lenders. However, NHAI position in the cashflows shall not be changed)



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THIS AGREEMENT (the "Agreement") is made on the day of 200... by
and among:

..... a company incorporated in India whose registered office is at
....., India (the "Company");

and

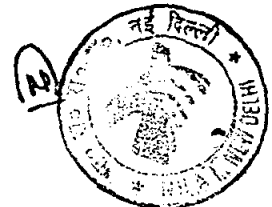
..... and having its registered office at
..... as Senior Lenders Representative (the "Lenders
Representative");

and

..... and having its registered office at
..... (the "Escrow Agent").

And

National Highways Authority of India (NHAI), Government of India, as Employer and
Sub-ordinate Lender (the "NHAI").



WHEREAS:

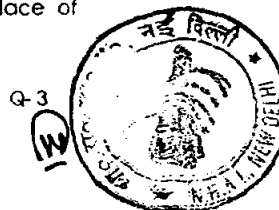
- The Company is undertaking a project for "(Name of the Project) in the state of (Name of State), India on BOT (ANNUITY) basis"
- The Company has entered into a Concession Agreement dated as of 200... with NHAI (the "Concession Agreement") wherein NHAI has granted Concession to Company for the work referred to above, on BOT (ANNUITY) basis.
- The Company has entered into Financing Documents with Senior Lenders wherein Senior Lenders (the "Lenders") have agreed to lend and advance to the Company Rupee amounts aggregating Lacs and foreign currency amounts aggregating US Dollars in terms thereof;
- One of the terms of the Concession Agreement and the Financing Documents is that the Company is required to establish an Escrow Account, inter alia, on terms and conditions satisfactory to Senior Lenders.

NOW IN CONSIDERATION FOR THE PREMISES IT IS AGREED BY THE PARTIES AS FOLLOWS:-

1. **Definitions and Construction**

1.1 **Definitions:** Each capitalised term used herein and not otherwise defined shall have the definition assigned to such term in the Concession Agreement or the Substitution Agreement as the case may be

- **"Account"** means the Escrow Account to be opened by the Company in accordance with this Agreement;
- **"Authorised Investment"** means any authorised investments which Lenders Representative may, from time to time permit the Company to make in accordance with this Agreement;
- **"Business Day"** means any day on which banks are open for business in or in relation to any notice or communication to be made under this Agreement, a day on which banks are open for business in the place of receipt of such notice or communication;

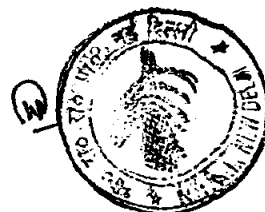


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- **"Company Account"** shall mean any bank account of the Company, other than the Escrow Account.
- **"Enforcement Notice"** means any enforcement procedure commenced by the Lenders Representative under any of the Security Documents;
- **"Escrow Account"** means an Escrow Account established in terms of and under this Agreement;
- **"Event of Default"** means an event of default as defined and detailed in the Financing Documents;
- **"INR"** means the lawful currency of India;
- **"Payment Date"** means in relation to any Permitted Payment, the date(s) specified for such payment;
- **"Permitted Payment"** means the Payments Agreed to in this Agreement excluding payment to the Company Accounts as more particularly given in clause 3.3.1;
- **"Required Balance"** means on any Date in relation to the Sub-Account of the Escrow Account, an amount in INR/Dollars which if proportionately built over the months, would be sufficient to meet Permitted Payment on the Payment Date(s).
- **"Security Documents"** means all or any of the Documents executed, delivered or furnished to secure the Financial Assistance under the Financing Documents including but not limited to the Deed of Hypothecation, Mortgage Deed, Equitable Mortgage, Deed of Guarantee, Pledge Agreement, Undertakings, Negative Lien and other incidental or supplemental documents related thereto.
- **"Sub-Accounts"** means the Sub-Accounts of the Escrow Account, into which the monies due in relation to Permitted Payment would be credited every month and paid out if due and if not due in a month then appropriated proportionately in such month and retained in the Sub Account and paid out therefrom on the Payment date.



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- "Year" means each twelve month period ending on March 31.

1.2 Construction

In this Agreement:

- Unless the context otherwise requires, the singular includes the plural and vice versa;
- Headings and the use of bold typeface shall be ignored in its construction;
- A reference to a Clause, or Schedule is, unless indicated to the contrary, a reference to a clause or schedule to this Agreement;
- References to this Agreement shall be construed as references also to any separate or independent stipulation or agreement contained in it;
- The words "other", "or otherwise" and "whatsoever" shall not be construed to be as any limitation upon the generality of any preceding words or matters specifically referred to;
- References to the word "includes" or "including" are to be construed without limitation;
- References to a person shall include such person's successors and permitted assignees or transferees;
- All references to agreements, documents or other instruments include (subject to all relevant approvals) a reference to that agreement, document or instrument as amended, supplemented, substituted, novated or assigned from time to time.
- The words "herein", "hereto" and "hereunder" refer to this Agreement as a whole and not to the particular Clause in which such word may be used;
- Words importing a particular gender include all genders;
- "person" includes any individual, partnership, firm, trust, body corporate, government, governmental body, authority, agency, unincorporated body of persons or association;
- any reference to a public organisation shall be deemed to include a reference to any successor to such public organisation or any organisation or entity which has taken over the functions or responsibilities of such public organisation;
- references to "Party" means a party to this Agreement and references to "Parties" shall be construed accordingly; and
- references to any law shall include references to such law as it may, after the date of this Agreement, from time to time be amended, supplemented or re-enacted.



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- terms and expressions not expressly defined herein shall subscribe the meanings ascribed thereto in the Concession Agreement

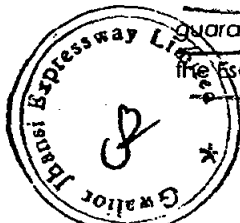
2. THE ACCOUNTS

2.1 Acceptance of Appointment of Escrow Agent

- (a) The Escrow Agent hereby agrees to act as such and to accept all payments and other amounts to be delivered to or held by the Escrow Agent pursuant to the terms of this Escrow Agreement. Escrow Agent shall hold and safeguard the Escrow Account during the term of this Escrow Agreement and shall treat the amount in the Escrow Account as monies deposited by Company / NHAI with the Escrow Agent, as agent for the benefit of the Lenders Representative, or its nominee, successors or assigns, in trust in accordance with the provisions of this Escrow Agreement. In performing its functions and duties under this Escrow Agreement, the Escrow Agent shall act as agent for the Lenders Representative. The Company also hereby declares that all right, title and interest in and to the Escrow Account, the Authorised Investments and Permitted Payments made from the Escrow Accounts shall be vested in the Escrow Agent and held in trust for the Senior Lenders acting through Lender's Representative, NHAI and the Company in accordance with the terms of this Agreement and as their respective interests are provided for herein. Amounts deposited in the Escrow Account from time to time shall be held by the Escrow Agent in trust and received and applied as provided in and in accordance with the Agreement. No person other than the Lenders Representative, NHAI and the Company shall have any rights hereunder as the beneficiaries of or as third party beneficiaries under this Agreement.
- (b) The rights of Company/NHAI in the monies held in Escrow Account are set forth in their entirety in this Escrow Agreement and Company/NHAI shall have no other rights against or to the monies in the Escrow Account.

2.2 Establishment of Escrow Account

At least thirty (30) days prior to seeking any disbursement (including issue of guarantees or all forms of Financial Assistance), the Company shall establish the Escrow Account with the Escrow Agent.



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2.3 Maintenance of the Account

The Escrow Agent shall maintain the Escrow Account in accordance with the terms of this Agreement and its usual practices and applicable regulations and pay the maximum rate of interest payable to its customers on the balance in the said account from time to time.

2.4 Operating Procedures

The Escrow Agent and the Company shall agree (after consultation with the Lenders Representative) on the detailed mandates, terms and conditions and operating procedures for the Escrow Account but in the event of any inconsistency between this Agreement and such mandates, terms and conditions or procedures, this Agreement shall prevail.

3. Currency

3.1 The Escrow Account shall be established with the Branch of the Escrow Agent. The Escrow Account shall be denominated in INR.

3.2 Deposits**3.2.1 The Company**

(A) agrees, confirms and undertakes that it shall deposit and/or credit the Escrow Account with:

- (i) all its receivables;
- (ii) all proceeds received pursuant to any insurance claims; and
- (iii) all monies received from any other sources in relation to and in respect of the Project.

(B) may make other deposits of the Company's other funds into the Escrow Accounts at any time. Provided however that the terms of this Agreement shall apply to such other funds deposited in the Escrow Account by the Company.

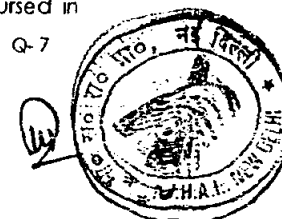
The NHA agrees, confirms and undertakes that it shall deposit and/or credit the Escrow Account with:

- (i) all Fees collected by NHA in exercise of its rights under Concession Agreement;
- (ii) Revenue Shortfall Loan;
- (iii) Grant, termination payments and other monies paid or disbursed in

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accordance with the provisions of the Concession Agreement and/or the Substitution Agreement..

- 3.2.2 The Escrow Agent shall ensure that all interest, if any, on the balances of the Escrow Accounts and interest on Authorised Investments made from the Escrow Accounts shall be credited to or deposited in the Escrow Account.

3.3 Withdrawals

- 3.3.1 The Escrow Agent shall withdraw amounts from the Escrow Accounts and appropriate in the following order every month as more particularly given in the Bank Proforma in Schedule 1 and deposit in the relevant Sub-Account for payments and if not due in a month then appropriate proportionately in such month and retain in the Sub-Account and pay out therefrom on the Payment Date(s):

- (a) All taxes due and payable by the Company;
- (b) All expenses in connection with and relevant to the Construction of Project Highway by way of payment to the EPC Contractor and such other persons as may be specified in the Financing Documents.
- (c) O&M Expenses including Fees collection expenses incurred by the Company directly or through O&M Contractor and/or Tolling Contractor, if any, subject to the items and ceiling in respect thereof as set forth in the Financing Documents but not exceeding one twelfth (1/12) of the annual liability on this account;
- (d) The whole of the expense on completion of Punch List items incurred by NHAI and 2.0 times of such expenses subject to a minimum of Rs. 1,000,000 (Rs. One million) in case the Punch List items are not completed by the Concessionaire within 120 days from the issue of the provisional completion certificate in accordance with the Specifications and Standards and as detailed in clause 16.5 of the Concession Agreement
- (e) The whole or part of the expense on repair work or O&M Expenses including Fees collection expenses incurred by NHAI, and 1.25 times of the O&M expenses incurred by the NHAI, if any, in the event of repair and maintenance work being carried out by NHAI (pursuant to the failure on part of the Company in doing so) to maintain and / or repair the Project Highway or a part thereof up to and in accordance with the Specifications and Standards and / or failure on part of the Company to commence remedial works within 30 (thirty) days of



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receipt of notice in this regard from NHAI or the Independent Consultant, if any, including those on account of exercise of any of its rights under this Agreement provided NHAI certifies to the Escrow Agent that NHAI had incurred such expenses in accordance with the provisions of this Agreement;

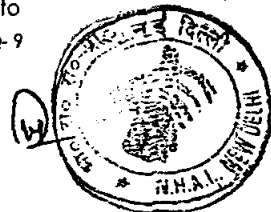
- (f) All Concession Fees and Negative Grants payments due to NHAI from the **Company** under this Agreement.
- (g) Monthly proportionate provision of Debt Service Payments due in an Accounting Year and payment of Debt Service Payments in the month when due;
- (h) Reimbursements of expenditure incurred by NHAI, if any, for payment of insurance premia, etc., which are otherwise company's responsibility, on account of failure on part of the Company to keep such insurance(s) effective and in force.
- (i) One-half of such remuneration, cost and expenses of the Independent Consultant in case the Concessionaire does not reimburse the remuneration, cost and expenses of the Independent Consultant to NHAI within 15 (fifteen) days of receiving a statement of expenditure from NHAI.
- (j) Any payments and Damages due and payable by the **Company** to NHAI pursuant to this Agreement including Recovery due to reduction in Scope of Work and repayment of Revenue Shortfall Loans; and
- (k) Balance in accordance with the instructions of the **Company**.

The amounts specified in Clause 3.3.1 (a) to (i) constitute the Permitted Payments.

For each year, Bank Proforma would be separately provided by the Company to the Escrow Agent, with the permission of Lenders Representative, not later than 60 days prior to the first day of each year.

3.3.2 Notwithstanding anything to the contrary contained in this Agreement upon the earlier of (i) issue of Termination Notice (ii) termination of Concession Agreement, or (iii) the expiry of Concession Period, all amounts standing to the credit of the Escrow Account shall be appropriated and dealt with in the following order:-

- (a) all taxes due and payable by the **Company**;
- (b) all Concession Fees (including **Negative Grant**) due and payable to



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NHAI under this Agreement;

- (c) all accrued Debt Service Payments;
- (d) any payments and Damages due and payable by the **Company** to NHAI pursuant to this Agreement, including Recovery due to reduction in Scope of Work, Termination claims and repayment of Revenue Shortfall Loans;
- (e) all accrued O&M Expenses;
- (f) any other payments required to be made under this Agreement; and
- (g) balance, if any, on the instructions of the Company.

3.3.3 Notwithstanding anything to the contrary contained in this agreement, any termination payments made by NHAI into the Escrow account shall not be appropriated therefrom for any purpose whatsoever, until the Vesting Certificate has been issued by NHAI. Provided, however, that this restriction shall not apply to appropriation in favour of the Senior Lenders to the extent of debt due.

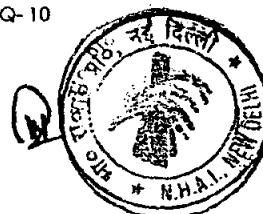
3.3.4 From the date, which is two years prior to the expiry of the Concession period, a sum equal to the fees realizable during the last two years of the Concession period for a traffic volume calculated at the rate of 10,000 (ten thousand) PCUs per day per year, or, a higher sum estimated by the Independent Consultant for renewal works, shall not withstanding anything to the contrary contained in this agreement, be retained in the Escrow Account provided that if a Bank Guarantee of an equivalent sum in the form and content acceptable to NHAI has been furnished by the Company to NHAI, no such retention shall be made. If following the second Inspection, it is agreed or determined that no renewal works are required, then within 14 days of such agreement, 50 % of the sums thus retained shall be released from the Escrow account to the company. Within 14 days after the issue of Vesting Certificate issued (in accordance with Article XXXIII of the Concession agreement) the sums thus retained shall be released from the Escrow account to the Company.

3.4 Application of Insufficient Funds

As provided in Clause 3.3, the application of funds in the Escrow Account shall be in the serial order of priority set forth therein. If the funds available for payment to the Sub-Accounts are sufficient to pay a portion, but not all, of



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the amount required to be paid to any Sub-Account, the Escrow Agent shall apply such funds in the serial order of priority set forth in Clause 3.3, until exhaustion thereof.

4. Authorised Investments

4.1 Power to Invest

The Escrow Agent shall invest the amounts standing to the credit of any of the Sub-Accounts in Authorised Investments on the instructions of the Company as approved by the Lenders Representative, from time to time, in accordance with the provisions of the Agreement. The Escrow Agent shall not be bound to and shall not make investments under the Indian Trusts Act, 1882 without prior approval of the Lenders Representative.

4.2 Procedure for Investments

4.2.1 All Authorised Investments shall be made and/or realised by the Escrow Agent on the instructions of the Company as approved by the Lenders Representative from time to time, in accordance with the provisions of this Agreement.

4.2.2 All documents of title or other documentary evidence of ownership with respect to Authorised Investments made out of any Escrow Account will be held in the custody of the Escrow Agent.

4.3 Realisations Upon the realisation of any investment made under this Clause, the proceeds of realisation shall immediately be credited to the relevant Sub-Account by the Escrow Agent or immediately invested in another Authorised Investment in accordance with the Company's instructions as approved by the Lenders Representative.

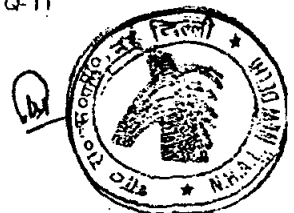
4.4 Mandatory Realisations

In the event that the Company becomes aware that any Authorised Investment has ceased to be an Authorised Investment, the Company shall immediately instruct the Escrow Agent on a best efforts basis to realise such Authorised Investment on its maturity date or earlier if possible under intimation to the Lenders Representative or NHAI.

4.5 Accounts include Investments



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Any reference in this Agreement to the balance standing to the credit of the Escrow Account shall be deemed to include a reference to the amount of the Authorised Investments in which all, or part of, such balance is for the time being invested.

- 4.6 Interest on Investments** Any interest or other income received on account of Authorised Investments shall be to the credit of the Escrow Account.

4.7 Enforcement Notice

On receipt of an Enforcement Notice from the Lenders Representative, the Escrow Agent shall realise the Authorised Investments, whether such investments have matured or not on a best effort basis, and apply the proceeds as directed by the Lenders Representative.

5. Withdrawals following Event of Default

- 5.1** If the Lenders Representative notifies the Escrow Agent that an Event of Default is likely to occur or has occurred, and is continuing, then, until such time as the Lenders Representative has notified the Escrow Agent that the Event of Default has been cured or waived under the Financing Documents, the Escrow Agent shall only make withdrawals from the Escrow Accounts which constitute Permitted Payment and shall not make any payments from the Escrow Account to the Company Accounts.

6. Escrow Agent Provisions

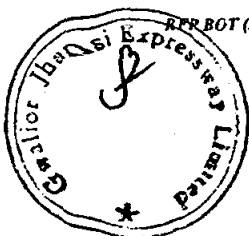
6.1 The Escrow Agent and the Lenders

The Company hereby appoints the Escrow Agent to act as trustee for the Lenders Representative in connection herewith and authorises the Escrow Agent to exercise such rights, powers, authorities and discretion as are specifically delegated to the Escrow Agent by the terms hereof together with all such rights, powers, authorities and discretion as are reasonably incidental hereto, and the Escrow Agent accepts such appointment pursuant to the terms hereof.

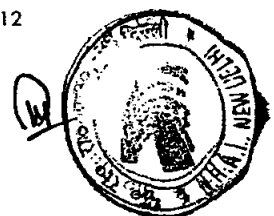
6.2 Particular Duties of the Escrow Agent

The Escrow Agent:

- (A) may, in the absence of bad faith or gross negligence on its part, rely as to any matters of fact which might reasonably be expected to be within the knowledge of the Company upon a certificate signed by or on behalf of the Company;



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(B) may, in the absence of bad faith or gross negligence on its part, rely upon the authenticity of any communication or documents believed by it to be authentic;

(C) shall, within five (5) Business Days after receipt, deliver a copy to the Lenders Representative of any notice or document received by the Escrow Agent in its capacity as the Escrow Agent from the Company or any other person hereunder or in connection herewith; and

(D) shall, within five (5) Business Days after receipt, deliver a copy to the Company of any notice or document received by the Escrow Agent from the Lenders Representative in connection herewith.

6.3 Segregation of Funds

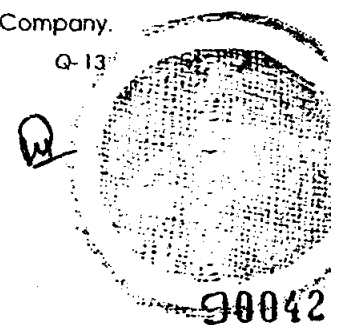
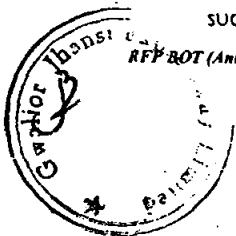
Monies and other property received by the Escrow Agent under this Agreement shall, until used or applied in accordance with this Agreement, be held by the Escrow Agent in trust for the purposes for which they were received, and shall be segregated from other funds and property of the Escrow Agent.

6.4 Termination

6.4.1 This Agreement shall remain in full force and effect so long as amounts remain outstanding from the Company in respect of the Financial Assistance received by it from the Senior Lenders or its obligations to NHAI, unless terminated earlier by the mutual consent of the parties or otherwise in accordance with the provisions of this Clause.

6.4.2 The Company may, by not less than 45 days prior notice to the Escrow Agent, NHAI and the Lenders Representative, terminate this Agreement and appoint a new Escrow Agent, provided that the new Escrow Agent is acceptable to the Lenders Representative and arrangements are made satisfactory to the Lenders Representative for transfer of amounts deposited in the Escrow Account to a new Escrow Account established with the successor Escrow Agent.

6.5 Fees The Company shall pay the Escrow Agent fees in an amount and at such times as may be agreed between the Escrow Agent and the Company.



7. Escrow Agreement Defaults

7.1 If the Company is in breach of any of its obligations under this Agreement and, following a notice of default from the Lenders' Representative, fails to remedy the same:

- (A) in the case of a failure to deposit funds received by the Company in the Escrow Account, by depositing the same in the Escrow Account within five Business Days of receipt of such notice;
- (B) in the case of a breach consisting of causing the Escrow Agent to transfer funds to any Company Account in breach of the terms of this Agreement, by depositing the relevant funds in the Escrow Account or any Sub-Account in which such transfer should have been made within five Business Days of receipt of such notice.
- (C) in the case of a breach of the Company's obligations under Clause 4, by instructing the Escrow Agent to realise any investment made in breach of Clause 4 within five (5) Business Days of receipt of such notice; or
- (D) in the case of any other breach, by remedying the same within five (5) Business Days to the satisfaction of the Lenders Representative.

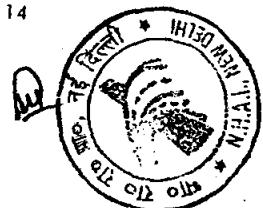
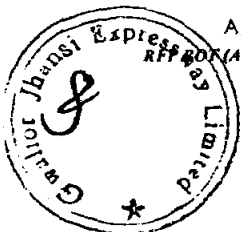
7.2 The Company and the Escrow Agent agree and confirm that any default by either the Company or the Escrow Agent in the performance of their respective obligations under this Agreement resulting, in the opinion of the Lenders Representative, in a breach of this Agreement, shall qualify as an Event of Default under the Financing Documents/Security Documents.

8. Miscellaneous

8.1 Closure of Accounts

The Escrow Agent shall, at the request of the Company made on or after the payment by the Company of all outstanding amounts under the Financing Documents / Concession Agreement and upon confirmation of receipt, close the Escrow Accounts and pay any amount standing to the credit thereof to the Company. Notwithstanding anything to the contrary contained in this Agreement, this Agreement shall remain in full force and effect till the Transfer

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Date provided however if NHAI shall certify to the Escrow Agent that Concession Agreement and/or the Concession has been terminated on account of default of the Concessionaire under this Agreement, then notwithstanding anything to the contrary contained herein, all the amounts standing to the credit of the Escrow Account shall be dealt with in accordance with provisions of Clause 3.3.2.

8.2 Successors and Assignors

This Agreement shall be binding on and shall enure to the benefit of the Parties and their respective successors and permitted assigns.

8.3 No Set Off

The Escrow Agent agrees not to claim or exercise any right of set off, banker's lien or other right or remedy with respect to amounts standing to the credit of the Escrow Accounts. For the avoidance of doubt, it is declared by the Escrow Agent that the monies and properties held by the Escrow Agent shall not be considered as part of the assets of the Escrow Agent and being trust property, shall in the case of bankruptcy or liquidation of the Escrow Agent be wholly excluded from the assets of the Escrow Agent in such bankruptcy or liquidation.

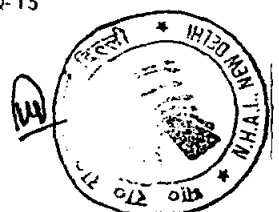
8.4 Notices

8.4.1 All notices or other communications to be given or made under this Agreement shall be in writing, shall either be delivered personally or sent by courier, registered or certified mail or facsimile. The address for service of each Party and its facsimile number is set out under its name on the signing pages hereto. All notices shall be effective upon actual receipt save that where a notice is received after 5.30 p.m. on a Business Day or on a day that is not a Business Day, such notice shall be deemed to be received on the first Business Day following the date of actual receipt. Without prejudice to the foregoing a Party giving or making a notice or communication by facsimile shall promptly deliver a copy of such notice or communication personally, by courier or mail to the addressee of such notice or communication.

8.4.2 Any party may by notice change the addresses and/or addressees to which such notices and communications to it are to be delivered or mailed. Such change shall be effective when all the Parties have notice of it.



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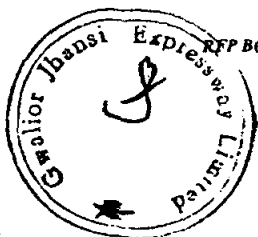
- 8.5 Waiver** Failure by any Party at any time to enforce any provision of this Agreement or to require performance by other Parties of any provision of this Agreement shall not be construed as a waiver of such provision and shall not affect the validity of this Agreement or any part of it or the right of the relevant Party to enforce any provision in accordance with its terms.
- 8.6 Severability** If any condition, Clause or provision of this Agreement not being of a fundamental nature, is held to be illegal or unenforceable, the validity or enforceability of the remainder of this Agreement shall not be affected thereby.
- 8.7 Amendments** No amendment to this Agreement shall be binding unless in writing and signed by the duly authorised representatives of the Parties.
- 8.8 Governing Law**
This Agreement shall be governed by and construed in accordance with Indian law.
- 8.9 Regulatory Approvals** The Escrow Agent shall use its best efforts to procure and shall thereafter maintain and comply with all regulatory approvals required for it to establish and operate the Escrow Accounts. The Escrow Agent represents and warrants that it is not aware of any reason why such regulatory approvals will not be ordinarily granted to the Escrow Agent.
- 8.10 Notification of Balances**
Seven Business Days prior to each Payment Date (and for this purpose the Escrow Agent shall be entitled to rely on an affirmation by the Company and/or the Lenders Representative as to the relevant Payment Dates), the Escrow Agent shall notify the Lenders Representative of the balance of the Escrow Account as at the close of business on the immediately preceding Business Day. IN WITNESS whereof the Company has caused its Common Seal to be affixed hereto and to a triplicate hereof on the date first above written and the Escrow Agent, NHA and the Lenders Representative have caused the said triplicate to be executed by the hand of an authorised official.

SIGNED AND DELIVERED BY)
 within named Escrow Agent)
 by the hand of)

 an authorised official of the Account)
 Trustee)

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Address:

Fax Number:

Attention:.....

SIGNED AND DELIVERED by THE)

..... within named Lenders)

Representative by the hand of)

an authorised official of the Lenders)

Representative

Address:

Fax Number:

Attention:

SIGNED AND DELIVERED by)

NHAI within named by the hand of)

an authorised official of the NHAI)

Address:

Fax Number:

Attention:.....

THE COMMON SEAL OF)

has pursuant to the Resolution)

of its Board of Directors passed in)

that behalf on the day of200)

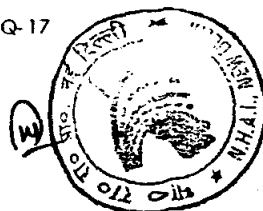
hereunto been affixed in the presence of)

Shri and Shri)



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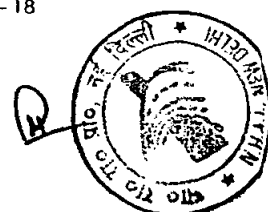


Directors who have signed these)
Presents in token thereof and)
Secretary/authorised)
Person who has countersigned the)
Same in token thereof.)

Address:

Fax Number:

Attention:.....



SCHEDULE R
State Support Agreement

SCHEDULE R

STATE SUPPORT AGREEMENT

THIS SUPPORT AGREEMENT is made on this _____ day of _____ 200_ AMONG

- 1 THE GOVERNOR OF THE STATE OF (Name of State) through the Secretary, Ministry of _____ Government of (Name of State). (hereinafter referred to as "GO*" which expression shall unless repugnant to the context or meaning thereof include its successors and assigns).
- 2 National Highways Authority of India, Government of India, (hereinafter referred to as "NHAI" which expression shall unless repugnant to the context or meaning thereof include its administrators, successors and assigns).

AND

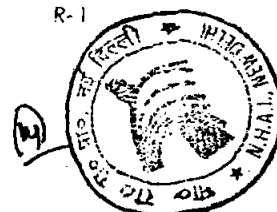
- 3 [_____ LIMITED], a company incorporated under the provisions of the Companies Act, 1956 and having its registered office at _____ (hereinafter referred to as the "Concessionaire", which expression shall unless repugnant to the context or meaning thereof include its successors and substitutes).

WHEREAS

- A. The NHAI intends to take up the improvement of (Name of the Project) in the state of (Name of the State), India on BOT (Annuity) basis.
- B. NHAI had invited Request for Proposals for selection of BOT Entrepreneurs for executing the Project on BOT (Annuity) basis.
- D. After evaluation of the bids so received, NHAI had accepted the bid of the Consortium and issued its Letter of Acceptance No. _____ dated _____ (the "LOA") to the Consortium requiring, inter alia, the execution of a Concession Agreement pursuant thereto.



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- E. The Consortium has promoted and incorporated the Concessionaire as a limited liability company to enter into the Concession Agreement pursuant to the LOA for undertaking, inter alia, the design, engineering, financing, procurement, Utility Shifting, Tree cutting, construction, operation and maintenance of the Project Highway, as defined hereinafter on BOT (Annuity) basis as referred to in Recital 'A' and to fulfill other obligations of the Concessionaire pursuant to the LOA and has requested NHAI to accept the Concessionaire as the entity which shall undertake and fulfill and perform the obligations and exercise the rights of the Consortium under the LOA, including the obligation to enter into the Concession Agreement for the design, engineering, financing, procurement, Utility Shifting, Tree cutting, construction, operation and maintenance of the Project Highway on BOT (Annuity) basis.
- F. NHAI has agreed to the said request of the Consortium and has accordingly agreed to enter into the Concession Agreement with the Concessionaire pursuant to the LOA for, inter alia, the design, engineering, financing, procurement, Utility Shifting, Tree cutting, construction, operation and maintenance of the said Project Highway on BOT (Annuity) basis.
- G. GO*, NHAI and the Concessionaire agree that the implementation of the Concession including performance of its obligations by the Concessionaire under and in accordance with the Concession Agreement requires extensive continued support and grant of certain rights and authorities as hereinafter set forth by GO* and is an essential pre-condition for mobilization of resources therefore by the Concessionaire.

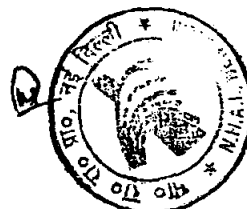
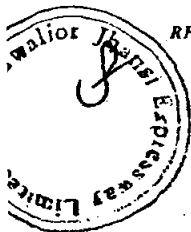
NOW THEREFORE THE PARTIES HERETO HEREBY AGREE AND THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. DEFINITIONS AND INTERPRETATIONS

- 1.1 For the purposes of this Agreement the following terms shall have the meaning hereinafter respectively assigned to them.
- 1.1.1 "Agreement" means this Support Agreement and all annexures hereto and amendments if any thereto made in accordance with the provisions contained herein in this behalf.

RFP BOT (Annuity) NS I/BOT/MP-UP

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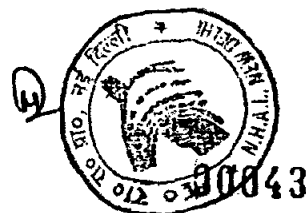
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- 1.1.2 "Concession Agreement" means the Concession Agreement dated _____ entered into between NHAI and the Concessionaire, and shall include all of its annexures and appendices and any amendments made thereto in accordance with the provisions contained in this behalf therein.
- 1.1.3 "MOSRTH" means Ministry of Shipping, Road Transport and Highways, earlier Ministry of Road Transport & highways
- 1.1.3. "Substitution Agreement" means the Substitution Agreement dated _____ entered into between the Senior Lenders, NHAI and the Concessionaire providing for substitution of the Concessionaire by the Selectee selected by the Senior Lenders in the manner and subject to and on the terms and conditions set forth therein. A copy of the said Substitution Agreement is annexed hereto and marked as "Annexure 'B'."
- 1.1.4. "GO* Support" means the obligations assumed and the facilities agreed to be provided by GO* to the Concessionaire hereunder or pursuant hereto.
- 1.2. The words and expressions beginning with or in capital letters used in this Agreement and not defined herein but defined in the Concession Agreement shall have, unless repugnant to the context, the meaning respectively assigned to them in the Concession Agreement. Words and expressions used in this Agreement and neither defined herein nor in the Concession Agreement but defined in the Substitution Agreement shall have the meaning respectively assigned to them in the Substitution Agreement.
- 1.3. In this Agreement unless the context otherwise requires-
- (a) any reference to a statutory provision shall include such provision as is from time to time modified and re-enacted or consolidated so far as such modification or re-enactment or consolidation applies or is capable of applying to any transactions entered into hereunder;
 - (b) the words importing singular shall include plural and vice versa, and words denoting natural persons shall include partnerships, firms, companies, corporations, joint ventures, trusts, associations, organizations or other entities (whether or not having a separate legal entity);



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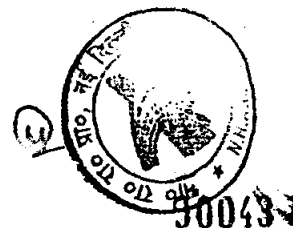
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- (c) the headings are for convenience of reference only and shall not be used in and shall not affect the construction or interpretation of this Agreement;
- (d) terms beginning with capital letters and defined in this Agreement shall have the meaning ascribed thereto herein;
- (e) the words "include" and "including" are to be construed without limitation.
- (f) any reference to a "day" shall mean reference to a calendar day;
- (g) any reference to "month" shall mean reference to a calendar month;
- (h) the Annexures and appendices to this Agreement form an integral part of this Agreement and will be in full force and effect as though they were expressly set out in the body of this Agreement;
- (i) any reference at any time to any agreement, deed, instrument, license or document of any description shall be construed as reference to that agreement, deed, instrument, license or other document as amended, varied, supplemented, modified or suspended at the time of such reference provided that this clause shall not operate so as to increase liabilities or obligations of GO* hereunder or pursuant hereto in any manner whatsoever.
- (j) References to Recitals, Clauses, Sub-clauses, Paragraphs, Annexures or Appendices in this Agreement shall, except where the context otherwise requires, be deemed to be references to Recitals, Clauses, Sub-clauses, Paragraphs, Annexures and Appendices of this Agreement.
- (k) Any agreement, consent, approval, authorization, proposal, notice, communication, information or report required under or pursuant to this Agreement from or by any Party or Senior Lender(s) shall be valid and effectual only if it is in writing under the hands of duly authorized representative of such Party or the Senior Lender(s), as the case may be, in this behalf and not otherwise; and
- (l) Any reference to any period commencing "from" a specified day or date and "till" or "until" a specified day or date shall include both days or



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dates.

- (m) "Concessionaire" shall include Selectee under the Substitution Agreement.

2. TERM

- 2.1. This Agreement shall come into force the date hereof and shall continue to be in full force and effect for the period the Concession Agreement is in force and effect including any extension thereof.

3. SUPPORT OF GO*

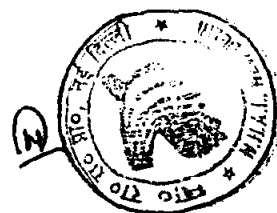
- 3.1. Upon and with effect from the date hereof, GO* agrees:

- (i) so long as the Concessionaire is not in breach of its obligations under this Agreement, GO* agrees to enable access to the Site to the Concessionaire for peaceful use of and operations at the Site by the Concessionaire under and in accordance with the provisions of the Concession Agreement without any let or hindrance from GO* or persons claiming through or under it;
- (ii) subject to the Concessionaire complying with Applicable Laws, provide to the Concessionaire Applicable Permits to the extent GO* or any Governmental Agency of GO* is entitled to issue;
- (iii) upon written request from the Concessionaire, assist the Concessionaire in obtaining access to all necessary infrastructure facilities and utilities, including water, electricity and telecommunication facilities at rates and on terms no less favorable to the Concessionaire than those generally available to commercial customers receiving substantially equivalent services;
- (iv) ensure that no barriers are erected or placed by GO* or any Governmental Agency of GO* that interrupts free flow of traffic on the Project Highway except on account of any law and order situation or upon national security considerations;
- (v) provide the Concessionaire with assistance through a dedicated



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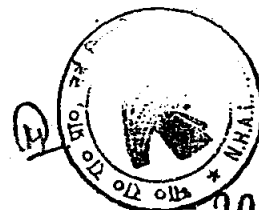


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- team against payment of prescribed fee and charges, if any, for regulation of traffic on the Project Highway;
- (vi) provide the Concessionaire with police assistance in the form of dedicated highway patrol parties against payment of prescribed costs and charges, if any, for patrolling and provision of security on the Project Highway;
- (vii) observe and comply with its obligations set forth in this Agreement;
- (viii) support, cooperate with and facilitate NHAI and the Concessionaire in the implementation of the Project;
- (ix) subject to and in accordance with the Applicable Laws, assist the Concessionaire in the procurement of all Applicable Permits required from any municipal and other local authorities and bodies including Panchayats in the State of _____ for the implementation of the Project;
- (x) ensure, subject to and in accordance with the Applicable Laws, that all relevant municipal and other local authorities and bodies including Panchayats in the State of **(Name of the State)** do not put any barriers or other obstructions that interrupt free flow of traffic on the Project Highway; and
- (xi) not do or omit to do any act, deed or thing which may in any manner be violative of or cause the Concessionaire to violate any of the provisions of the Concession Agreement.

3.2. Notwithstanding anything to the contrary contained in the Agreement, GO* may construct and operate either itself or have the same, inter alia, built and operated on BOT (Annuity) basis or otherwise any Expressway or other toll road, not being a by-pass, between inter alia, **(Name of Project Section)** (the "Additional Tollway")

3.3. GO* agrees and undertakes that it shall not levy any toll, fee, charge or tax on the use of whole or any part of the Project Highway. GO* acknowledges the rights of Senior Lenders and NHAI under the Substitution Agreement and hereby covenants that upon substitution of the Concessionaire by the Selectee pursuant to the



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Substitution Agreement, it shall be deemed for the purposes of this Agreement that as if Selectee is a Party hereto and the Selectee shall accordingly be deemed to have succeeded to the rights and obligations of the Concessionaire under this Agreement on and with effect from the date of substitution of the Concessionaire by the Selectee.

4. CONCESSIONAIRE'S OBLIGATIONS

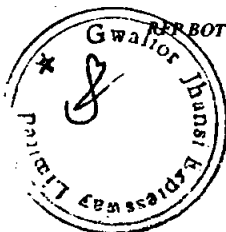
4.1. Concessionaire agrees and undertakes to perform, observe and comply with the following :

- (i) All Applicable Laws and Applicable Permits;
- (ii) The provisions of the Concession Agreement, the Substitution Agreement, and the Project Agreements; and
- (iii) Observe, comply and perform its obligations under this Agreement.

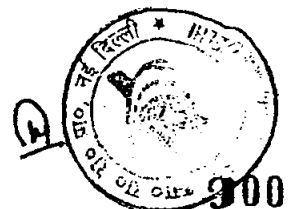
5. REPRESENTATIONS AND WARRANTIES

5.1. The Concessionaire represents and warrants to GO* that :

- (i) It is duly organized, validly existing and in good standing under the laws of India.
- (ii) It has power and authority to execute, deliver and perform its obligations under this Agreement and to carry out the transactions contemplated hereby;
- (iii) It has taken all necessary corporate and other action under Applicable Laws and its constitutional documents to authorize the execution, delivery and performance of this Agreement;
- (iv) This Agreement constitutes its legal, valid and binding obligation enforceable against it in accordance with the terms hereof;
- (v) It is subject to civil and commercial laws of India with respect to this Agreement and it hereby expressly and irrevocably waives any



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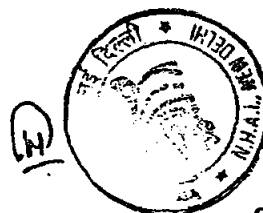


immunity in any jurisdiction in respect thereof;

- (vi) All the information furnished to the GO* pertaining to the Concessionaire including its constitution and existing and proposed shareholding structure is now and shall be true and correct as on the Appointed Date and COD and the Balance Sheet and Profit and Loss Account of the Concessionaire for each of its Accounting Year after the Appointed Date furnished to GO* shall give true and fair view of the affairs of the Concessionaire.
- (vii) The Concessionaire shall furnish a copy of its audited Balance Sheet within 120 (one hundred twenty) days of the close of its each Accounting Year after the Appointed Date and any material change subsequent to the date of such Balance Sheet shall be notified to GO* by the Concessionaire within 30 (thirty) days of its occurrence and warrants that the Balance Sheet and the information furnished as aforesaid shall be true and correct;
- (viii) The execution, delivery and performance of this Agreement will not conflict with, result in the breach of, constitute a default under or accelerate performance required by any of the terms of the Concessionaire's Memorandum and Articles of Association or any member of the Consortium or any Applicable Laws or Applicable Permits or any covenant, agreement, understanding, decree or order to which it is a party or by which it or any of its properties or assets is bound or affected;
- (ix) There are no actions, suits, proceedings or investigations pending or, to the Concessionaire's knowledge, threatened against it at law or in equity before any court or before any judicial, quasi judicial or other authority, the outcome of which may result in the breach of or constitute a default of the Concessionaire under this Agreement or which individually or in the aggregate may result in any material adverse effect on its business, properties or assets or its condition, financial or otherwise or in any impairment of its ability to perform its obligations and duties under this Agreement;



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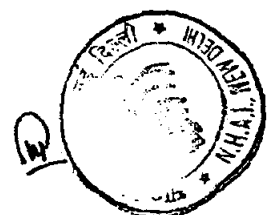
- (x) The Concessionaire has no knowledge of any violation or default with respect to any order, writ, injunction or decree of any court or any legally binding order of any Governmental Agency which may result in any material adverse effect or impairment of the Concessionaire's ability to perform its obligations and duties under this Agreement;
- (xi) The Concessionaire has complied with all Applicable Laws and Applicable Permits, and has not been subject to any fines, penalties, injunctive relief or any other civil or criminal liabilities which in the aggregate have or may have material adverse effect on its financial condition or its ability to perform its obligations and duties under this Agreement;
- (xii) Each Consortium Member was and is duly organized and existing under the laws of the jurisdiction of its incorporation and has full power and authority to consent to and has validly consented to the Concessionaire entering into this Agreement with the GO*;
- (xiii) No representation or warranty by the Concessionaire contained herein or in any other document furnished by it to GO*, or to any Governmental Agency in relation to Applicable Permits contains or will contain any untrue statement of material fact or omits or will omit to state a material fact necessary to make such representation or warranty not misleading;
- (xiv) The Concessionaire warrants that no sums have been paid or will be paid, by or on behalf of the Concessionaire, to any Person by way of fees, commission or otherwise for entering into this Agreement or for influencing or attempting to influence any officer or employee of NHAI, GOI or GO* in connection therewith; and
- (xv) The Concessionaire is subject to civil and commercial laws of India with respect to this Agreement.

5.2. GO* represents and warrants to the Concessionaire that :



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- (i) It has full power and authority to execute, deliver and perform this Agreement.
- (ii) It has taken all necessary governmental action to authorize the execution, delivery and performance of this Agreement; and
- (iii) This Agreement constitutes the legal, valid and binding obligation of GO* enforceable against it in accordance with its terms.

6. SOVEREIGN IMMUNITY

6.1. GO* hereto unconditionally and irrevocably:

- (i) Agrees that the execution, delivery and performance by it, of this Agreement do not constitute sovereign acts;
- (ii) Agrees that should any proceedings be brought against it or its assets in relation to this Agreement or any transaction contemplated by this Agreement, no sovereign immunity from such proceedings, execution, attachment or other legal process shall be claimed by or on behalf of itself or with respect to any of its assets, to the extent permitted by law; and
- (iii) to the extent permitted by law, waives any right of sovereign immunity, which it or its assets now has or may acquire in the future.

6.2. Notwithstanding anything to the contrary herein contained such waiver of right of immunity shall not apply to

- a) Property and assets of any consular or diplomatic mission or consulate or
- b) Property belonging to the Defence services and such assets of the Union of India.

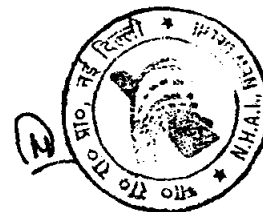
7. Breach and Compensation

- 7.1. In case GO* is in breach of any of its obligations under this Agreement, which breach is not cured within 30 days of receipt of a notice in writing from the Concessionaire to GO* and NHA and which has not occurred as a result of**



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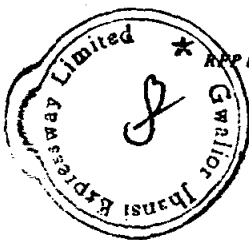
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Concessionaire's breach of its obligations under this Agreement or the Concession Agreement, GO* shall pay to the Concessionaire, all direct additional costs suffered or incurred by the Concessionaire, determined by MOSRTH as arising out of such material default by GO*.

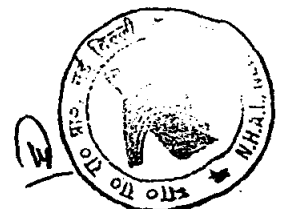
- 7.2. In case of any dispute by GO* on admissibility of the claim or extent of compensation determined by MOSRTH, the claim shall be settled as per provisions of the Dispute Settlement mechanism provided in Article IX of this Agreement.
- 7.3. Any such compensation payable shall be paid to the Concessionaire, in one lumpsum within 90 (ninety) days of receiving MOSRTH's determination of compensation.

8. INDEMNITY

- 8.1. The Concessionaire will indemnify, defend and hold GO* harmless against any and all proceedings, actions and claims for any loss, damage, cost and expense of whatever kind and nature arising out of design, engineering, construction, operation and maintenance of the Project Highway or arising out of any breach by the Concessionaire of any of its obligations under this Agreement or on account of failure of the Concessionaire to comply with, and observe Applicable Laws and Applicable Permits;
- 8.2. GO* will, indemnify, defend and hold harmless the Concessionaire against any and all proceedings, actions and third party claims for any loss, damage, cost and expense arising out of failure of GO* to fulfill any of its obligations under this Agreement adversely affecting the performance of the Concessionaire's obligations under the Concession Agreement other than any loss, damage, cost and expense, arising out of acts done in discharge of their lawful functions by GO*, its officers, servants and agents;
- 8.3. Without limiting the generality of Clause 8.2, the GO* shall indemnify the Concessionaire and shall save it harmless from and against any payments required to be made by the Concessionaire with respect to levy of any Local Taxes provided nothing contained herein shall be construed or interpreted as restricting in any way or manner the right of GO* or any municipal, panchayat or



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other local authorities to levy any taxes which they or any of them are lawfully entitled to levy, impose or collect (the "Expected Taxes"). The Concessionaire shall not be entitled to and GO* shall be under no obligation to reimburse Expected Taxes to the Concessionaire or any person claiming through or under the Concessionaire;

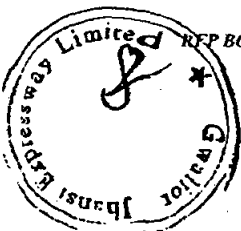
- 8.4. In the event that either party hereto receives a claim from a third party in respect of which it is entitled to the benefit of an indemnity under Clause 8 or in respect of which it is entitled to reimbursement (the "Indemnified Party") within 14 (fourteen) days of receipt of the claim or payment, as the case may be, shall not settle or pay the claim without the prior approval of the Indemnifying Party. In the event that the Indemnifying Party wishes to contest or dispute the claim, it may conduct the proceedings in the name of the Indemnified Party and shall bear all costs involved in contesting the same. The Indemnified Party shall provide all cooperation and assistance in contesting any claim and shall sign all such writings, and documents as the Indemnified Party may reasonably require.

9. GOVERNING LAW AND DISPUTE SETTLEMENT

- 9.1. This Agreement shall be governed by and construed and interpreted in accordance with the laws of India. The provisions contained in Clause 8 shall survive the termination of this Agreement.
- 9.2. Any dispute, difference or claim arising out of or in connection with or in relation to this Agreement which is not resolved amicably shall be decided finally by reference to arbitration to a Board or Arbitrators comprising of one nominee of each party to the dispute. Such arbitration shall be held in accordance with the Rules of Arbitration of the Indian Council of Arbitration and shall be subject to the provisions of the Arbitration and Conciliation Act, 1996. The Arbitrators shall issue a reasoned award. The venue of such arbitration shall be New Delhi, India. The Award shall be final and binding on the Parties.

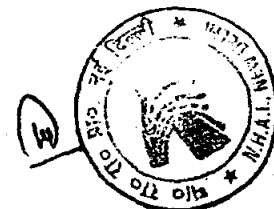
10. MISCELLANEOUS

10.1. Alteration of Terms



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All additions, amendments, modifications and variations to this agreement shall be effectual and binding only if in writing and signed by the duly authorized representatives of GO* and the Concessionaire.

10.2. Time or Indulgence Allowed

An indulgence by one Party to the other in respect of any obligation or matter hereunder including time for performance to the other party hereunder or to remedy any breach hereof shall not be construed as a waiver of any of its rights hereunder Party may be on such terms and subject to such conditions as the Party giving it may specify and shall be without prejudice to that Party's then accrued rights under this Agreement except to the extent expressly varied in writing when giving such time or other indulgence.

10.3. Severance of Terms

If any provisions of this Agreement are declared to be invalid, unenforceable or illegal by any competent arbitration tribunal or court, such invalidity, unenforceability or illegality shall not prejudice or affect the remaining provisions of this Agreement, which shall continue in full force and effect.

10.4. Language

All notices, certificates, correspondence or other communications under or in connection with the Agreement shall be in English

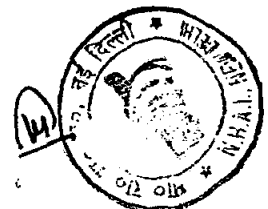
10.5. Notices

Any notice or communication hereunder shall be in writing and shall either be delivered personally or sent by registered post, with copy by facsimile transmission or other means of telecommunication in permanent written form. A copy of all the notices and communications will also be forwarded to the Lenders Representative. The service of notice shall unless otherwise notified by a notice hereunder to the parties at their following address:



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IF to GO* :

Attn :

Fax no :

Tel no.

IF to the NHAI

Attn:

Fax no.

Tel no.

IF to the Concessionaire :

Attn :

Fax no.

Tel no.

The notice pursuant hereto will be deemed to have been received on the date when such notice is in fact received by the addressee.

10.6. Authorised Representatives

Each of the Parties shall by notice in writing designate their respective authorised representatives through whom only all communications shall be made. A Party hereto shall be entitled to remove and/or substitute or make fresh appointment of its such authorised representative by similar notice.

10.7. Original Document

This Agreement is made in two counterparts, each of which shall be deemed to be an original.

IN WITNESS WHEREOF THE PARTIES HERETO HAVE PUT THEIR HANDS HEREUNTO ON THE DAY, MONTH AND YEAR FIRST ABOVE WRITTEN.

FOR CONCESSIONAIRE

FOR GOVT. OF (Name of the State)

BY : _____

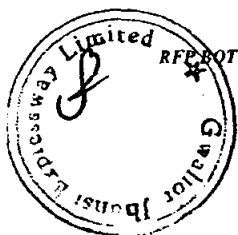
BY : _____

Name : _____

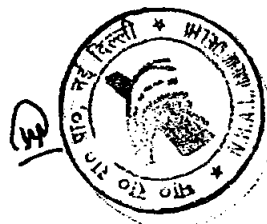
Name: _____

Title: _____

Title: _____



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FOR NHAI

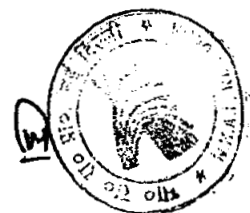
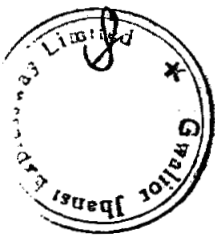
BY : _____

Name : _____

Title: _____

In the presence of :

- 1.
- 2.



SCHEDULE S
Safety Requirements

SCHEDULE-S

SAFETY REQUIREMENTS

1. OBJECTIVE

- 1.1 Safety of road users and Project workers is a vital requirement which the Concessionaire has to attend during the Concession Period under the Concession Agreement.

2. SAFETY STANDARDS

2.1 Objective

- 2.1.1 The objective of Safety Standards is to provide safe travel to the drivers of vehicles plying on the Project Highway at all times of the day, throughout the year and provide protection to the Project workers when they are on the work. This Schedule delineates the Safety Standards in terms of construction zones, signs and safety measures in work zones and during normal operations.

2.1.2 The guiding principles for safety measures shall include

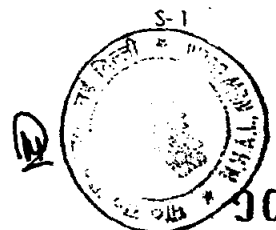
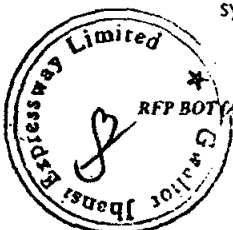
- (i) warning to the drivers unambiguously and sufficiently in advance of the situation on the highway;
- (ii) providing clear demarcation for movement of vehicles;
- (iii) providing devices to guide the drivers and their movements through construction zones/lane closures/traffic diversions etc.
- (iv) protection to Project workers on work site.

2.2 Construction zone

In order to plan and provide appropriate traffic management and safety measures, it is necessary to appreciate the concept of a construction zone. A construction zone can be defined as an area of the Project Highway which involves the conflict of the right of use between the road users and authority responsible for the maintenance /improvement of the Project Highway. From traffic safety point of view, a construction zone comprises four sub-zones as described hereinunder:

2.2.1 Advance Warning Sub-Zone

The advance warning sub-zone is meant to prepare the driver for an alert behaviour and is an essential part of any traffic control system. The warning system shall prepare the driver well in advance by providing information



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regarding distance, extent and type of hazard ahead so that the can gradually reduce the speed of his vehicle. For the operating speeds on the Project Highway, length of this sub-zone shall be 100m and 500m, in plain and hilly terrain respectively. Information in this sub-zone will be conveyed through a series of traffic signs, which will include "Men at Work" and the speed reduction signs at the start and middle of this sub-zone.

2.2.2 Transition Sub-Zone

The transition sub-zone is the area in which the traffic is steered and guided into and out of the diverted path around the work sub-zone. This is the most crucial sub-zone from safety point of view since most of the movements are turning movements. The traffic in this sub-zone is mostly taken across with the help of barricades and channelizers.

The elements for designing this sub-zone are speed of the vehicles, extent of lateral shift and elevation difference between the normal and the diverted paths. The essential safety measures shall include delineation of the travel path and prevention of wayward movements of vehicles by means of barricades, channelizers, red cones, and red lamps during hours of darkness etc., as appropriate.

In the design of this sub-zone adequate attention shall be paid for providing necessary turning radius of the curves, grade to permit for safe passage of animal driven vehicles, drainage and dust-proofing. Where necessary traffic control shall be affected through manual flagging and by (electrically / Battery operated) traffic lights during hours of darkness. Where vehicles have to wait, the waiting area shall be demarcated by stop lines. Length of the sub-zone will generally be between 50 and 100m.

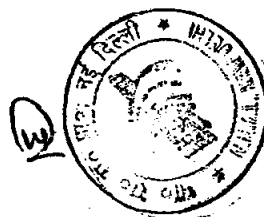
2.2.3 Work Sub-Zone

This is the actual area where construction or maintenance activity is taking place and the main concern, therefore, is the safety of the workers at the site from the plying traffic. The path of the traffic must, therefore, be very clearly delineated to avoid intrusion of vehicles moving into the work area. The work sub-zones shall not be close to each other and the distance between the two work sub-zones shall be such that the flow of traffic can return to normal stream by permitting fast moving traffic to overtake slow moving vehicles. These distances shall preferably



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be 2 km on urban sections and 5 to 10 km on rural sections of the highway. The length of work sub-zones will vary. The length of warning and transition sub-zones shall be basically governed by the speed of approaching vehicles and shall be regulated as shown in table S-1 below:

Table S-1: Recommended Length of Construction Zones

Average Speed (Kmph)	Length of Advance Warning Sub-Zone (m)	Length of Transition Sub-Zone (m)	Length of Work Sub-zone (m)
50	100	50	Varies
51-80	100-300	50-100	
81-100	300-500	100-200	
Over 100	1000	200-300	

The traffic across these sub-zones is guided and taken with the help of various traffic control devices erected at the site.

2.2.4 Termination Sub-Zone

The sub-zone is intended to inform the road users of the end of the construction zone. An information signboard shall be erected to inform road users of the end of construction Zone.

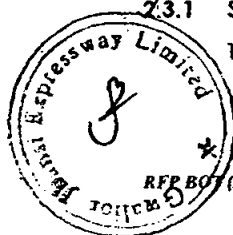
2.3 Traffic Control Devices

Traffic control devices in the construction zones perform the crucial task of warning, informing and alerting the driver apart from guiding the vehicle movements so that the driver of the vehicle as well as the workers on site are protected and safe passage to the traffic is possible.

The primary traffic control devices used in work sub-zones are signs, delineators, barricades, cones, pylons, pavement markings, flashing lights etc. They shall be such that they are easily understood without any confusion, are clearly visible during day and night, conform to the prevailing speeds in immediate vicinity, stable against sudden adverse weather conditions and are easy in installation, removal and maintenance.

2.3.1 Signs

The construction and maintenance signs fall into the same three major categories viz. regulatory signs, warning signs and guide signs as other traffic signs do. The



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IRC: 67-2001 (Code of Practice for Road Signs) gives a comprehensive list of traffic signs to which the size, colour and placement of signs shall conform. IRC: SP: 55-2001 gives details of special signs and other safety devices to be used in construction. These signs shall be placed on the left hand side of the road. Some of the common types of signs, which shall be provided in construction zones, are discussed in the following paragraph.

2.3.1.1 Regulatory signs

Regulatory signs mean legal restrictions on the traffic. They shall be used only in consultation with the local police and /or authorities. The most common types for use in construction zones are "Do not Enter", "Road Closed", "Give Way to Pedestrians", "Speed limit" etc.

2.3.1.2 Warning Signs

The most common type of warning signs to alert the drivers of the possible dangers ahead in construction zones are "Lane Closed", "Diversion to other Carriageway", "Divided Carriageway Starts", "Divided Carriageway Ends" and "Two Way Traffic" etc. Sometimes it might be advisable to explain these signs with the help of a rectangular definition plate of size appropriate to the size of warning triangle and placed 0.15 m below, from the bottom of the triangle.

2.3.1.3 Guide Signs

Guide signs in construction zones shall have different background colour than the normal informatory signs of IRC: 67-2001. These signs shall have black messages and arrows on yellow (Traffic Yellow of IS: 5-1978) background. The commonly used guide signs are: "Diversion", "Road Ahead Closed" and "Sharp Deviation of route" etc. (As per IRC: SP: 55-2001).

2.3.2 Delineators

These channelising devices such as cones, traffic cylinders, tapes are placed in or adjacent to the roadway to guide the drivers along a safe path and to control the flow of traffic. These shall normally be retro-reflectorised for night visibility. IRC: 79-1981 (Recommended Practice for Road Delineators) gives details of some of the delineators. The other delineators are discussed below.

2.3.2.1 Traffic Cones and Cylinders

Traffic cones shall normally be 0.5m to 0.75m high and 0.3m to 0.4m in diameter or in square shape at the base. These are mostly made of plastic or rubber with



retro reflectorised red and white band and have suitable anchoring so that they are not easily blown over or displaced, it might be preferable to use double cones, one over the other. The cones shall be placed close enough together to give an impression of the continuity. The spacing shall be 3m (close) to 9m (normal). Larger size cones can be used for high speeds or where more conspicuous guidance is required.

New Jersey type plastic barrier of height 0.6m to 0.75m and 0.3m x 0.9m rectangular base could also be used with retro-reflectorised red and white band. Water or sand can be filled to stay in position without displacement. The spacing shall be 3m to 4m.

2.3.2.1 Barricades

Whenever the traffic has to be restricted from entering the work areas, such as excavations or material storage sites so that protection to workers is provided or there is a need for separating the two way traffic, barricades can be used. The barricades can be portable or permanent type and can be made of iron Jolly, metal or other suitable material. Size of the frame shall be 1.2m x 1m. Suitable support or ballasting shall be provided so that they do not over turn or are not blown away in strong winds. In case of a permanent type barricade, a gate or movable section shall be separately provided to allow the movement of construction/supervision vehicles. Red retro reflective stickers shall be affixed to barricade boards.

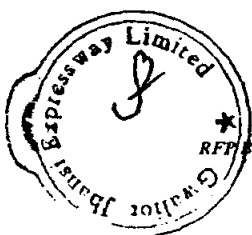
2.3.4 Flagmen

In large construction sites, flagmen with flags and sign paddles shall be effectively used to guide the safe movements. The flags for signalling shall be 0.60 m x 0.60 m size, made of a good red cloth and securely fastened to a staff of approximately 1m in length. The sign paddles shall conform to IRC: SP: 55-2001 and provided with a rigid handle.

For one-way traffic operation at a time during hours of darkness, battery operated red/green lights shall be used at either end of the affected section.

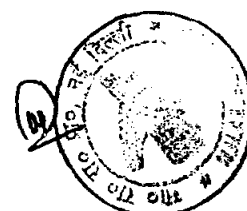
2.3.5 Road studs and Blinkers (L.E.D.)

Road studs with red flashers shall be provided across the road on either side of the construction zone and Blinkers (L.E.D) shall also be proved at appropriate locations as per the direction of IC and/or NHAI.



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2.4 Safety & Management Practices

Measures for providing safe movement of traffic in some of the most commonly occurring work zones on highways shall be as follows:

2.4.1 Detour on Temporary Diversion

In the cases of major repairs or reconstruction of cross drainage structures on a highway section, damaged due to flood etc., the traffic may have to pass on a diversion, moving parallel to the highway.

2.4.1.1 A temporary diversion road shall basically satisfy the following requirements:

- i) It shall have smooth horizontal and vertical profile with smooth vertical and horizontal curves;
- ii) It shall not get overtopped by flood or drainage discharge under any conditions;
- iii) It shall have adequate capacity to cater for the diverted traffic;
- iv) It shall be dust free and shall ensure clear visibility at all times of day and night;
- v) It shall be provided with the required safety standards; and
- vi) It shall be provided with suitable barricades to prevent intrusion affecting the movement of the traffic.

2.4.1.2 The warning for the construction ahead shall be provided by the sign "Men at Work" about 1 km earlier to the work zone. In addition, a supplementary plate indicating "Diversion 1 km ahead" and a sign "Road Closed Ahead" shall be placed. "Compulsory Turn Right/Left Sign" shall follow it. The "Detour" and "Sharp Deviation" sign shall be used to guide the traffic onto the diversion. Hazard markers shall be placed just where the railings for the cross drainage structures on the diversion starts.

2.4.2 Partial Closure of existing two lane Carriageway

2.4.2.1 Such an eventuality will arise only in a special situation where the existing two lanes in use for the main traffic need emergency repairs and the new lanes under construction are not available for diversion of the traffic. It will become necessary to carryout special repairs through partial closure of the existing two lane facility.

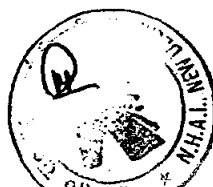
2.4.2.2 In the said situation care shall be taken that the traffic is guided from the closed lane onto the operating lane without conflicting with the traffic from opposite direction.

2.4.2.3 The warning sign for "Men at Work" shall be the first sign to be seen by the drivers



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of the approaching vehicles. This sign shall have supplementary plate also showing the distance of work zone. The next warning sign shall be for the "Road Narrowing" (depending upon the lane closure). Compulsory "Keep Right" or "Keep Left" sign depending upon the situation, shall be provided at the beginning of the transition zone and taper. The point from where the traffic is to deviate from its normal path, the channel for traffic shall be clearly marked with the aid of painted drums or traffic cones. The spacing of these cones and/or drums shall be about 9 m or closer as per site requirement.

"The traffic lane or carriageway closed" sign shall also be provided at barricades along with "Keep Right/Left" sign.

2.4.3 Closure for Work on one side Carriageway of a 4/6 lane divided carriageway

The first sign shall be for the "Men at Work" alongwith distance plate for construction zone. Thereafter the sign for "Road Narrowing" shall be provided, followed by the signs for lane closure one after another. This shall be followed by sign for compulsory "Keep right/Left (depending upon site situation). The sign for the "Closure of carriageway" along with that for "keep Left/Right" shall be provided at the point from where the vehicle is expected to change the lane for the diversion. The sign for the "Diversion to the other carriageway" shall be provided between the "Carriageway Closure" sign and the median gap. The sign for "Sharp. Diversion of Route" along with compulsory "Turn right/Left" shall be provided at the location where the gap in median opening starts and traffic is expected to get diverted to the other carriageway. The warning signs for "Two way traffic" alongwith the plate indicating the distance, up to which the two way traffic is allowed, shall be placed at the median, which shall be to the left of the moving traffic. Cones or painted drums shall be placed for delineation, starting from the sign location for "Carriageway Closed".

2.4.4 Carriageway Repairs

When the work is of small magnitude, to be done in the middle of the carriageway, such as minor repairs of potholes, cracks and patches, then the traffic control measures shall mainly consist of providing cautionary signs of "Men at Work", about 500m before the work zone for the approaching vehicle and other cautionary sign of "Road Narrows", shall be placed at 100m ahead of work area. Regulatory sign of "Keep Left/Right" shall be placed at the commencement point of the work zone and next to the barriers for the



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approaching vehicles. Movable type of barriers shall also be placed on both sides of the work area. Cones or drums shall be placed at suitable interval to demarcate the work area. The "Work Zone Ends" sign shall be installed 120m beyond the work area. If the operation is to continue during nighttime, necessary lighting arrangements with flashing lights shall be provided.

2.4.5 Construction of New Carriageway

2.4.5.1 Urban Section of the Project Highway

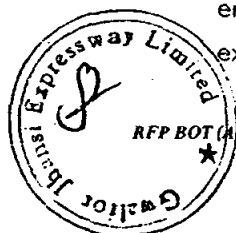
- (a) The service roads on either side together with side drains shall be constructed initially.

During this period the main traffic shall use the existing two lane carriageway. The construction traffic in the work zone shall be safely brought out from the mainstream traffic by erecting appropriate signs at the beginning of the work site. Also on return it will be amalgamated with the mainstream traffic by erecting appropriate signs at the end of the work site. It shall be ensured that there shall be identified entry and exist points duly designed so that haphazard entry or exit of construction traffic is avoided. Conflicting turning movements shall be avoided.

- (b) On completion of the Stage-I, the main traffic shall be diverted on their respective directions on to the newly constructed service roads and the additional 4/6 lanes shall be constructed (2/3 lanes on each side) of the existing carriageway duly including the 1.5m wide central median.
- (c) On completion of the divided 4/6 lane carriageway of the Project Highway, the main traffic from the service roads shall be restored on them and informatory signs shall be installed.

2.4.5.2 Rural Section of the Project Highway

In rural section the new 2/3 lane carriageway and the central median shall be constructed eccentric to the Centre line of the existing carriageway. During this construction phase, the existing two lane carriageway shall be used for the main traffic. The construction traffic using the existing highway shall be guided on to the work zone and allowed to return to the main traffic stream safely. For this purpose identified exist and entry points duly designed shall be provided. It shall ensure against haphazard entry or exist of the Construction Traffic to/from the existing highway. Conflicting turning movements of the Construction traffic shall



be avoided. During this phase, sign/barricading shall be on the construction side of the road.

On completion of the new 2/3 lane carriageway and the median throughout, the traffic on the existing highway shall be diverted on it and the strengthening and widening of the existing carriageway shall be taken up.

At the construction stages described above, situations may arise requiring diversion of traffic for cross over from the new carriageway to the existing carriageway when construction of new lanes is done in stretches, during which suitable traffic safety measures shall adopted.

2.5 Safety Measures During Normal Operation

2.5.1 Introduction

It is observed that the drivers park their vehicles on the carriageways leading to accidents. Many a times, the accidental vehicles and/or debris on the carriageway are the cause of further accidents besides obstructing the smooth flow of the traffic. For smooth and normal flow of the traffic on the Project Highway, the actions stated hereinunder in 2.5.2 would be taken for the normal operation of the Project Highway.

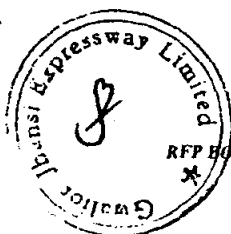
2.5.2 Highway Patrol

Highway Patrolling shall be done to ensure safe, uninterrupted and smooth traffic flow so that:

- (i) No parking of a vehicle on any of the divided carriageway takes place at anytime;
- (ii) Immediate assistance is provided to accident victims and their rescue as per clause 18.8.2 of the Concession Agreement.
- (iii) Minor debris and stalled vehicles are removed from carriageway within an hour's time;
- (iv) In the event of traffic congestion, adequate measures shall be taken to mitigate the same in maximum one-hour's time and the approaching traffic is duly cautioned about it.

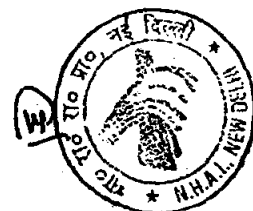
2.5.3 Safety, Vehicle Breakdown and Accident

2.5.3.1 In case of unsafe condition, vehicle breakdowns and accidents, the Concessionaire shall follow the relevant operating procedures, which shall include the setting up of temporary traffic cones and lights as well as the removal



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of obstruction and debris expeditiously as per clause 18.8.1 of the Concession Agreement.

2.5.3.2 The Concessionaire shall ensure that any diversion or interruption of traffic is remedied without delay as per clause 18.8.1 of the Concession Agreement.

2.5.6 Safety Measures During Concession Period

2.6.1 During the Concession Period or extension thereof as per the Concession Agreement many activities are involved at different stages and at various periods in respect of construction, operation and maintenance of the Project Highway. Safety of the road users and the Project workmen at site is of paramount importance and obligatory for the Concessionaire throughout the said period.

2.6.2 In Emergency arising on account of Force Majeure due to nature or administrative reasons special safety measures may be called for the traffic and/or the workmen at site to be taken by the Concessionaire.

2.6.3 The following principles shall be kept in view in Emergency situations from safety considerations:

2.6.3.1 Where part width of the existing 2/3 lane carriageway is envisaged to be used for passage of two way traffic, paved shoulders shall be used on the side on which work is not proposed. A maximum of one lane (3.5 m wide) closure shall be allowed for a short duration depending on the extent on Emergency.

2.6.3.2 At the points where traffic is to deviate from its normal path, the channel for traffic shall be clearly marked with the aid of pavement markings or other similar device as directed by the Independent Consultant. At night the passage shall be delineated with lamps or lanterns or any suitable light source.

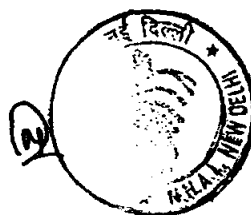
2.6.3.3 On the approach of any type of closure suitable regulatory/warning signs as approved by the Independent Consultant shall be installed for guidance of road users. At least two signs shall be put up one close to the carriageway where transition of carriageway begins and the other 120 m ahead. The signs shall be of approved design and of reflectory type as directed by Independent Consultant.

2.6.4 The Concessionaire shall ensure that safety standards specified in this Schedule are strictly complied with in the event of any lane closure or diversion of traffic.



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2.7 Safety of Project workmen at Site

- 2.7.1 Safety of the Project Workers at site during duty hours is the responsibility of the Concessionaire. It shall be ensured by him that safety measures appropriate for the job a workman performs shall be provided.
- 2.7.2 Also, safety measures against accidents of the Workers by the traffic using the highway and/or diversions shall be taken. The Concessionaire shall provide helmets and protective chest vests to its workmen at site and make it compulsory for them to wear the same.
- 2.7.3 The Concessionaire shall insure all the Project Workers against accident.
- 2.7.4 Labour Laws in force shall be followed.

2.8 Safety Requirements

- 2.8.1 Safety of Road users and workers on the Project Highway during its Construction, Operation and Maintenance is obligatory and the Concessionaire shall be fully responsible to discharge it in terms of the Concession Agreement including its Schedules.
- 2.8.2 In case of emergency situations the Concessionaire shall take action(s) for the safety of the road users and the workers as required by the site conditions immediately without waiting for consultation with the Independent Consultant and/or NHAI because any delay in it will not absolve the Concessionaire of its responsibilities under the Concession Agreement including its Schedules.
- 2.8.3 A breach by the Concessionaire of its obligations in respect of the safety standards shall be dealt with in terms of clause 18.8.3 of the Concession Agreement

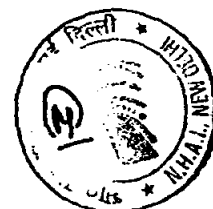
2.9 Safety of workers

In respect of all labour directly or indirectly employed in the work for the performance of the Concessionaire's part of this agreement, the Concessionaire shall at his expense arrange for the safety provisions as per Indian Standard Safety codes shown below and shall at his own expense provide for all facilities in connection there with. In case the Concessionaire fails to make arrangement and provide necessary facilities as aforesaid, he shall be liable to pay penalty prescribed under relevant clauses of this concession agreement for each default and in addition the IC shall be at liberty to make arrangement and provide



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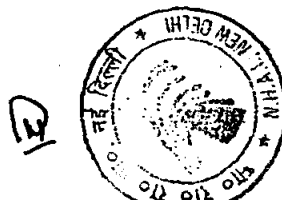
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facilities as aforesaid and recover the cost incurred on that behalf from the Concessionaire, and no claims whatsoever shall be entertained.

1. IS: 3696 (part I) - 1966 Safety code for scaffolds and ladders.
2. IS: 3696(part II) - 1966 Safety code for scaffolds and ladders
3. IS: 3764-1966 Safety code for excavation work.
4. IS: 4081-1967 Safety code for blasting and drilling operations.
5. IS: 4138 -1977 Safety code. for working in compressed air
6. IS: 5121 Safety code for piling and other deep foundations.
7. IS: 5916 - 1970 Safety codes for construction involving use of hot bituminous materials.
8. IS: 7293-1974 Safety code for working with construction machinery.
- 9 IS: 7969 -1975 Safety code for storage and handling of building materials.
10. Any other code and/or as per directions of IC.

10.0 Safety Precautions

Since heavy loads have to be handled over moving traffic during erection of superstructure, safety is of utmost importance. The Concessionaire shall enforce a strict Safety System with all necessary precautions and instructions (safety tools, nets, railings, personal protection equipment, proper training of workers, first aid, etc.). No unskilled / untrained personnel shall be engaged at site to perform the critical activities above the flowing traffic at GL. The Concessionaire shall be solely responsible for ensuring safety at site during entire construction period.



SCHEDULE T
Criteria for List of Chartered
Accountants

SCHEDULE T

CRITERIA FOR LIST OF CHARTERED ACCOUNTANTS

Selection of the Chartered Accountants for a mutually agreed list shall consist of the following steps :

1. Shortlisting of Chartered Accountants by the NHAI
2. Issue of Letter of Invitation (LoI) along with Terms of Reference to shortlisted Chartered Accountants.
3. Evaluation of Technical Proposal and selection of maximum of 15 (fifteen) Chartered Accountants.
4. Forwarding list of maximum 15 (fifteen) Chartered Accountants to Concessionaire to select a maximum of 10 (ten).

SELECTION COMMITTEE FOR SHORTLISTING

A Selection Committee shall do the selection; the members of this committee shall be nominated by the NHAI.

1. **Shortlisting by NHAI**

For shortlisting, NHAI shall advertise for Expression of Interest (Eoi) to serve as Statutory Auditors/ Chartered Accountants for the ongoing National Highway (NH-(NH No.)) improvement project. The Eoi will ask for summary information on

- Number of Partners and Professional Staff
- Experience of the firm on roads project
- Presence in India and in the region
- Experience of the firm on other similar work in other sectors.

2. **Request for Technical Proposal**

The request for technical proposals shall be sent to the shortlisted firms. This shall include a ToR besides information (Data Sheet) to the firms. It shall contain the guidelines for the preparation of technical proposals by the firms and submission.

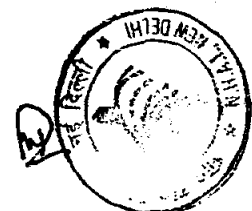
The ToR shall include the following details :

1. Project background
2. Objectives
3. Scope of services
4. Interaction with NHAI
5. Reporting requirement
6. Performance clause
7. Consultant's Proposal
8. Period of Services



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3. Evaluation of Technical Proposal

The technical proposals received from shortlisted firms shall be evaluated based on the following :

- Specific experience of the firm related to the assignment
- Adequacy of the proposed work plan and methodology in response to the ToR
- Qualifications and competence of the key staff for the assignment.



SCHEDULE U
Substitution Agreement

SCHEDULE U
SUBSTITUTION AGREEMENT

THIS SUBSTITUTION AGREEMENT is made at New Delhi on this the _____ day of _____ 200_.

BETWEEN

1. THE National Highways Authority of India (hereinafter referred to as "NHAI" which expression shall unless repugnant to the context or meaning thereof include its successors and assigns),
2. _____ LIMITED, a company incorporated under the provisions of the Companies Act, 1956 and having its Registered Office at _____ (hereinafter referred to as the "Concessionaire" which expression shall unless repugnant to the context or meaning thereof include its successors and assigns),

AND

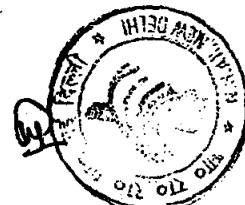
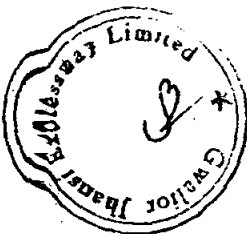
3. _____ and having its registered office at _____ acting for itself and for and on behalf of the Senior Lenders listed in Schedule 1 hereto (hereinafter referred to as the "Senior Lenders").
- (NHAI, the Concessionaire and the Senior Lenders are hereinafter collectively referred to as the "Parties" and individually are hereinafter referred to as "Party").

WHEREAS

- A. By the Concession Agreement dated _____ entered into between the NHAI and the Concessionaire, NHAI has granted to the Concessionaire the Concession for **Name of the Project in the State of (Name of the State)**, India on Build, Operate and Transfer (BOT) basis subject to and on the terms, conditions and covenants set forth in the said Concession Agreement or forming part thereof.
- B. With a view to help facilitate obtaining of financing for the said Project by the Concessionaire so as to enable the Concessionaire to build, operate and maintain the same pursuant to and in accordance with the Concession

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Agreement, the Parties have agreed subject to the terms and conditions of the Concession Agreement and the Financing Documents, that the Senior Lenders shall have the right to substitute the Concessionaire by a Selectee for the residual period of the Concession on the terms, conditions and covenants mentioned hereinbelow.

- C. As a condition to making any disbursement pursuant to the Financing Documents, the Senior Lenders have required and it is deemed necessary and expedient to record the terms, conditions and covenants of the above agreement between the Parties.

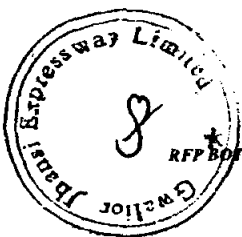
NOW THEREFORE THE PARTIES HITHERTO HEREBY AGREE AND THIS AGREEMENT

WITNESSES AS FOLLOWS:

ARTICLE 1

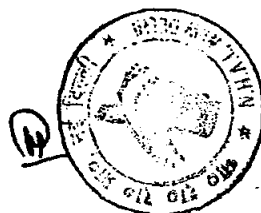
DEFINITIONS

- 1.1 For the purpose of this Agreement, the following terms shall have the meaning hereinafter respectively assigned to them :
- 1.1.1 "Concession" means the bundle of rights, obligations and covenants of the Concessionaire under and as set forth in the Concession Agreement.
- 1.1.2 "Concession Agreement" means the Concession Agreement dated entered into between NHAI and the Concessionaire granting the Concession to the Concessionaire in respect of the Project Highway and includes without limitation any amendments thereto made in accordance with the provisions contained in this behalf therein.
- 1.1.3 "Event of Default" means occurrence of any of the following events :
- (i) A Material Breach by the Concessionaire of the Concession Agreement, or the occurrence of a Concessionaire Event of Default as defined in the Concession Agreement.
 - (ii) A material default in payment by the Concessionaire to all or any of the Senior Lenders under the Financing Documents of any two instalments, either of principal or interest or both, due and payable by ii) on account of Lenders Dues.
 - (iii) Any event of default under or breach of any of the terms of any of the Financing Documents or Project Agreements concerning the Project



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which in the sole opinion of the Lenders Agent is material or major and which may seriously affect the ability of the Concessionaire to meet its payment obligations to the Senior Lenders under the Financing Documents or to design engineer, construct, complete, operate and maintain the Project Highway pursuant to and in accordance with the Concession Agreement.

- 1.1.4 **"Financial Assistance"** means the loans, advances and other funding assistance including any syndicated/ participation facility provided by the Senior Lenders as set forth in Schedule II hereto for financing the whole or any part of the Project Cost.
- 1.1.5 **"Financing Documents"** means the documents executed/ to be executed by the Concessionaire or entered/ to be entered into by the Concessionaire with the Senior Lenders and/or the Lenders Agent in respect of the Financial Assistance and include loan agreements, guarantees, notes, debenture, bonds and other security agreements and other documents relating to the Financial Assistance and brief particulars whereof are set forth in Schedule II hereto in relation to each Senior Lender.
- 1.1.6 **"Lenders Agent"** means a company established under the provisions of the and having its principal office and any replacement thereof appointed by all the Senior Lenders, inter alia, on the condition that as security for the Financial Assistance they shall have the right to seek transfer and assignment of the Concession Agreement including the Concession in accordance with the provisions of this Agreement.
- 1.1.7 **"Lenders Certificate"** shall have the meaning ascribed thereto in Clause 2.2(b).
- 1.1.8 **"Lenders Dues"** means the aggregate of all monies owned by the Concessionaire to the Senior Lenders under the Financing Documents on account of principal thereunder for funding the Project Cost, and all accrued interest, additional interest, liquidated damages, commitment fees, commission, prepayment premium, costs, charges and other monies including financing charges and fees owed by the Concessionaire to the Senior Lenders under the Financing Documents for the Project upto the Transfer Date payable under the Financing Documents.
- 1.1.9 **"Notice of Default"** shall have the meaning ascribed thereto in Clause 2.2(a).

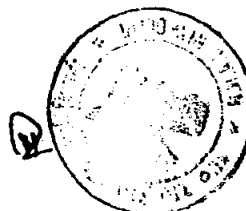


- 1.1.10 "Proposal" shall have the meaning ascribed thereto in Clause 3.1 (iii).
- 1.1.11 "Project Agreements" means this Agreement, the Concession Agreement and certain other agreements and contracts entered into, by the Concessionaire with NHAI and others relating to the Project and brief particulars whereof are set forth in Schedule III hereto.
- 1.1.12 "Project Cost" means the total capital cost of the Project upto the COD as approved by the Senior Lenders.
- 1.1.13 "Senior Lenders" means the financial institutions, trusts, funds, banks and such other persons who have provided or agreed to provide the finance to the Concessionaire under any of the Financing Documents for meeting all or any part of the Total Project Cost and who hold pari passu charge on the Project Assets.
- 1.1.14 "Selectee" means a new Concessionaire proposed by the Senior Lenders pursuant to this Agreement and approved by NHAI for substituting the Concessionaire for the residual period of the original Concession by amendment of the Concession Agreement or by execution of a fresh Concession Agreement.
- 1.1.15 "Substitution Notice" means the notice given by the Lenders Agent pursuant to Clause 2.2 (c) of this Agreement.
- 1.2 The words and expressions beginning with or in capital letters used in this Agreement not defined herein, shall have, unless repugnant to the context, the meaning respectively assigned to them in the Concession Agreement.
- 1.3 In this agreement unless the context otherwise requires :
- a) any reference to a statutory provision shall include such provision as is from time to time modified or re-enacted or consolidated so far as such modification or re-enactment or consolidation applies or is capable of applying to any transactions entered into hereunder;
 - b) the words importing singular shall include plural and vice versa, and words denoting natural persons shall include partnerships, firms, companies, corporations, joint ventures, trusts, associations, organisations or other entities (whether or not having a separate legal entity);
 - c) the headings are for convenience of reference only and shall not be used in and shall not affect the construction or interpretation of this



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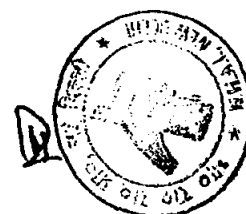
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Agreement;

- d) terms beginning with capital letters and defined in this Agreement shall have the meaning ascribed thereto herein;
- e) the words "include" and "including" are to be construed without limitation;
- f) any reference to a "day" shall mean reference to a calendar day;
- g) any reference to "month" shall mean reference to a calendar month;
- h) the Schedules to this Agreement form an integral part of this Agreement and will be in full force and effect as though they were expressly set out in the body of this Agreement;
- i) any reference at any time to any agreement, deed, instrument, license or document of any description shall be construed as reference to that agreement, deed, instrument, license or other document as amended, varied, supplemented, modified or suspended at the time of such reference provided that this clause shall not operate so as to increase liabilities or obligations of NHAI hereunder or pursuant hereto in any manner whatsoever;
- j) references to Recitals, clauses, sub-clauses, paragraphs, or schedules in this Agreement shall, except where the context otherwise requires, be deemed to be references to Recitals, Articles, clauses, sub-clauses, paragraphs, Annexures, appendices of this Agreement.
- k) any agreement, consent, approval, authorisation, proposal, notice, communication, information or report required under or pursuant to this Agreement from or by any Party or Senior Lender(s) shall be valid and effectual only if it is in writing under the hands of duly authorised representative of such Party or the Senior Lender(s), as the case may be, in this behalf and not otherwise; and
- l) any reference to any period commencing "from" a specified day or date and "till" or "until" a specified day or date shall include both days or dates.



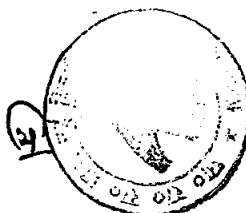
ARTICLE 2**SUBSTITUTION OF THE CONCESSIONAIRE BY A SELECTEE**

- 2.1 NHAI hereby irrevocably agrees to substitute the Concessionaire by a Selectee (selected by the Senior Lenders in accordance with the provisions of this Agreement and approved by NHAI) by amendment of the Concession Agreement or by execution of a fresh Concession Agreement in favour of the Selectee for the purpose of securing the payments of the Lenders Dues, provided that nothing contained herein shall entitle the Senior Lenders to operate the Concession themselves as a Concessionaire under and in accordance with Concessionaire Agreement either individually or collectively. However, Senior Lenders may exercise the right of step-in to cure any breach or default subsisting on the day of such step-in or substitution. Provided further that if the Senior Lenders step in to operate and manage the Concession for a period not exceeding 90 (ninety) days, their liabilities shall be restricted to the obligations relating to and arising during such 90 (ninety) days period.
- 2.2 (a) The Lenders Agent shall notify by a notice in writing to the Concessionaire, with a copy thereof simultaneously to NHAI, about the occurrence of an Event of Default and requiring the Concessionaire to remedy and cure such default within 30 (thirty) days from the date of delivery of such notice of the Concessionaire (the "Notice of Default"). The Notice of Default shall be accompanied by the Lenders Certificate.
- (b) A certificate under the hands of an authorised officer of the Lenders Agent annexed to the Notice of Default certifying –
- (i) the occurrence of an Event of Default, and
 - (ii) the Lenders Dues.
- (the "Lenders Certificate") shall be conclusive evidence of occurrence of such Event of Default and of such Lenders Dues. Such Lenders Certificate shall be final, conclusive and binding upon the Concessionaire for the purposes of this Agreement and the Financing Documents.



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- (c) NHAI and the Concessionaire hereby irrevocably agree that the Lenders Agent may within 30 (thirty) days of the date of delivery of the Notice of Default of the Concessionaire and without prejudice to any other right or remedy available to the Senior Lenders under the Financing Document, notify NHAI and the Concessionaire on behalf of all the Senior Lenders about the Senior Lenders decision to invite, negotiate and procure offers, either through private negotiations or public auction or process of tendering for the residual period of the Concession and the rights and obligations of the Concessionaire under the Concession Agreement, by a Selectee, subject to the approval of such Selectee by NHAI (the "Substitution Notice").
- (d) Upon assumption by the Selectee of the liability and obligations of the Concessionaire under the Financing Documents and the Concession Agreement including obligation to pay any sums then due and payable to NHAI under the Concession Agreement, NHAI shall grant the Concession to the Selectee on the same terms and conditions for the residual period of the original Concession, by amendment of Concession Agreement or, if required by the Lenders Agent by a separate agreement with the Selectee.

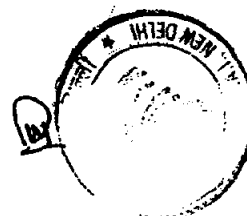
2.3 The Lenders Agent shall apply in the selection of the following criteria :

- (i) the Selectee shall be capable of properly discharging the duties, obligations and liabilities of the Concessionaire under the Concession Agreement;
- (ii) the Selectee shall provide security to the satisfaction of Senior Lenders for repayment of the Lenders Dues;
- (iii) the Selectee shall have the capability and shall unconditionally consent to assume the liability for the payment and discharge of dues of the Concessionaire to NHAI under and in accordance with the Concession Agreement and of Lender's Dues upon terms and conditions as agreed to with the Senior Lenders ;
- (iv) the Selectee shall have the network, experience and technical equity parameters as set forth in the Concession Agreement or prescribed by NHAI thereunder in respect of the Concessionaire or as relaxed subsequently by NHAI;



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- (v) the Selectee shall have not been in breach of any agreement between the Selectee and NHAI; and
- (vi) any other appropriate circumstance, whereby continuity in the performance of the Concessionaire's obligations under the Concession Agreement is maintained and the security in favour of Senior Lenders under the Financing Documents is preserved.

2.4 At any time prior to the acceptance of the Selectee by NHAI pursuant to this Agreement, the NHAI may require the Lenders Agent to satisfy NHAI as to the eligibility of the Selectee and the decision of the NHAI in this behalf (which shall be reasonable), shall be final, conclusive and binding on the Senior Lenders and the Selectee.

ARTICLE 3

MODALITY FOR SUBSTITUTION

3.1 The following modalities shall be applicable to any substitution of the Concessionaire by the Selectee pursuant to this Agreement :

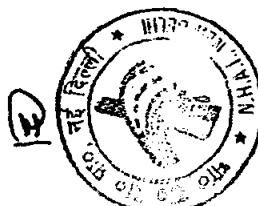
- (i) The Lenders Agent may invite, negotiate or procure offers either through private negotiations or public auction or process of tender or otherwise for the substitution of the Concessionaire by the Selectee;
- (ii) The Lenders Agent shall on behalf of the Senior Lenders propose to NHAI pursuant to sub-clause (iii) below, the name of the Selectee for acceptance and shall apply as necessary to NHAI for :
 - a) grant to the Selectee (as substitute for the Concessionaire) the right to build, construct, complete, maintain, and operate the Project Highway under and in accordance with and subject to and on the terms and conditions set forth in the Concession Agreement,
 - b) amendment of the Concession Agreement so as to grant to the Selectee on the same terms and conditions, the residual period of the Concession under original Concession Agreement,
 - c) the execution of a new Substitution Agreement with the



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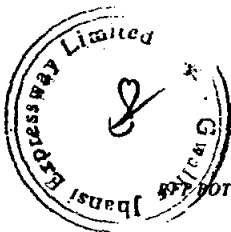


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proposed Selectee for the residual period of Concession on the same terms and conditions, and

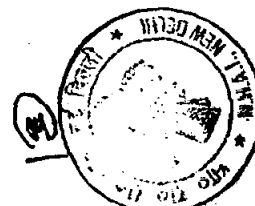
- (iii) The Lenders Agent on behalf of the Senior Lenders shall be entitled, within a period of 120 (one hundred twenty) days from the date of delivery to NHAI of the Substitution Notice pursuant to Clause 2(c) above, to select and propose to NHAI for its approval a Selectee (the "Proposal"). The Proposal of the Lenders Agent pursuant to this sub-clause (iii) shall contain the particulars and information in respect of the Selectee, the Lenders Dues and other data and information, all as prescribed in Schedule IV hereto. Without prejudice to the foregoing the Lenders Agent agrees and undertakes to provide to NHAI such further and other information and such clarifications in respect of any data, particulars or information furnished pursuant hereto by the Lenders Agent as NHAI may reasonably require. NHAI shall convey its approval or otherwise of such Proposal, including of Selectee, in its sole discretion within 60 (sixty) days of (a) the date of receipt of the Proposal by NHAI, or (b) the date when last of further and other information and such clarifications in respect of any data, particulars or information comprised in the Proposal, as have been provided in the Lenders Agent to NHAI, whichever is later. It is expressly agreed that the Proposal shall be accompanied by an unconditional undertaking of the Selectee that it shall upon approval by NHAI of the Proposal including the Selectee, observe, comply, perform and fulfill the terms, conditions and covenants of the Concession Agreement which according to its terms are required to be observed, complied with, performed and fulfilled by Concessionaire thereunder on the footing as if such Selectee were the concessionaire under the Concession Agreement and shall be liable for and shall assume, discharge and pay the Lenders Dues to the Senior Lenders under and in accordance with the Financing Documents. Upon approval of the Proposal including of the Selectee by NHAI, such Selectee shall become the Selectee hereunder.

- (iv) NHAI shall, upon its satisfaction of the eligibility of the Selectee and in accordance with the provisions of this Agreement and subject to the provisions of Sub-clause (v) below proceed to substitute the Concessionaire or the Selectee by amendment of the Concession



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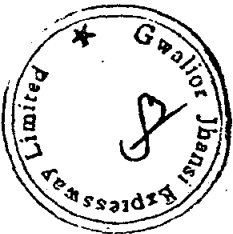
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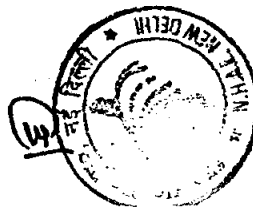
Agreement or by execution of fresh agreement or such other writing as NHAI may reasonably require on the same terms and conditions for the residual period of the Concession in favour of the Selectee.

- (v) The substitution as aforesaid shall be subject to the Selectee, obtaining requisite Indian Government approvals, clearances and permission necessary for operating the Concession under and in accordance with the Concession Agreement.
- (vi) The objection if any of NHAI to the substitution as aforesaid shall be reasoned and be made after hearing the Lenders Agent, provided however, that in the event of a refusal as stated above, the Lenders Agent may propose another Selectee. In the event that no objection is raised with respect to the Selectee by NHAI within the period set forth in sub-clause (iii) above, the Selectee shall be deemed to have been accepted by NHAI. NHAI shall, subject to the provisions of Sub-clause (v) above, grant the Concession for the residual period within 15 days of its acceptance/deemed acceptance of the Selectee.
- (vii) The substitution as aforesaid, pursuant to the security interest hereby created in favour of the Senior Lenders, shall be deemed to be complete only upon the Selectee as Concessionaire accepting and complying with the terms and conditions stipulated in the Concession Agreement.
- (viii) The decision of the Senior Lenders and NHAI in the selection of the Selectee shall be final and binding on the Concessionaire and shall be deemed to have been made with the concurrence of the Concessionaire and the Concessionaire hereby expressly waives all rights to objects to or challenge such selection of the Selectee on any ground whatsoever. No third party shall have the right to question the decision of the Senior Lenders/Lenders Agent and NHAI.
- (ix) All actions of the Lenders Agent hereunder shall be deemed to be on behalf of the Senior Lenders, and be binding upon them. The Lenders Agent is authorised to receive payment of compensation, payment to cure default and any other payments, consideration for transfer in accordance with the Substitution Notice and the Financing Documents and give valid discharge on behalf of all Senior Lenders.



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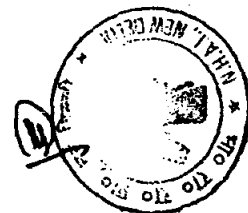
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- 3.2 The terms and conditions for substitution of the Concessionaire by the Selectee shall be proposed by the Senior Lenders through the Lenders Agent to the NHAI, on the occurrence of an Event of Default and continuance thereof for six months but atleast 2 months prior to the anticipated date of substitution as aforesaid for the residual period of the Concession.
- 3.3 The Concessionaire hereby irrevocably agrees and waives any right to challenge the Senior Lender's decision to apply to NHAI for substitution as aforesaid and neither the Concessionaire nor NHAI shall be entitled to prevent the Lenders Agent from proceeding to seek such a substitution of the Concessionaire by Selectee as hereinbefore provided. Notwithstanding NHAI's permission for substitution pursuant to Lenders Agent's request, the Concessionaire agrees and confirms that the Concessionaire shall not have any right to seek re-valuation of the Concessionaire's assets including the Concession under the Concession Agreement, otherwise than as contracted in the Financing Documents. The Parties acknowledge that the rights of the Senior Lenders hereunder are irrevocable and shall not be contested in any proceedings before any court of authority and the Concessionaire shall have no right or remedy to prevent, obstruct, injunct or restrain NHAI and/or the Senior Lenders from effecting or causing the substitution as aforesaid.
- 3.4 Where no suitable Selectee can be found by the Lenders Agent, or NHAI shall decide to take over the concession then NHAI shall advise the Lenders Agent of all steps it proposes to take under the Concession Agreement for determination of Termination Payments thereof.
- 3.5
- (i) If NHAI decides to substitute the Concessionaire by any other person (NHA Nominee), it shall take into account the Senior Lender's Dues while considering offers from such persons and shall include a suitable condition as agreed to by the Lenders Agent on behalf of the Senior Lenders for payment or take over of such dues by such NHAI nominee to the extent agreed by the Lenders Agent while substituting the Concessionaire by the NHAI nominee. The NHAI nominee shall similarly be bound to execute a supplementary/fresh substitution agreement on the same terms and conditions as provided herein.
- (ii) Notwithstanding anything contained in Clause 3.4 and this Clause 3.5, NHAI shall not be required to take over, upon Termination of the Concession



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Agreement including the Concession, the liabilities representing the Lender's Dues save and except to the extent of Termination Payments due and payable upon such Termination under the Concession Agreement. In such an event NHAI's obligation shall be limited to assumption of such liabilities and payments of dues as NHAI has agreed to bear under the Concession Agreement.

- 3.5.1 Nothing contained in these presents shall mean or be interpreted as provision of any guarantee or surety by NHAI and it is expressly agreed that NHAI has not provided any surety, guarantee or counter guarantee whether directly or indirectly for the recovery of amount of Financial Assistance advanced by the Senior Lenders to the Concessionaire.

ARTICLE 4

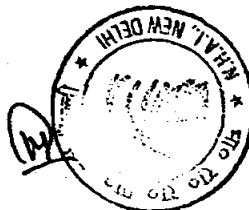
INTERIM PROTECTION OF SERVICE AND PRESERVATION OF SECURITY

- 4.1 In the event of the Senior Lenders notify NHAI and the Concessionaire of the Event of Default (and the Concessionaire has not cured the default for a period of 30 days) or in special circumstances affecting the security of the Senior Lenders, the Senior Lenders shall be entitled to institute protective legal proceedings for a receivership (the "Receiver") to maintain, preserve and protect the assets (other than the Concession Agreement including the Concession) held as security by the Senior Lenders provided always that such receiver shall be NHAI if such assets are in the opinion of NHAI necessary and required for the operation and maintenance of the Project Highway and the Parties hereby consent and agree to the same. The Lenders Agent shall in such an event notify NHAI to assume receivership of the assets held as security and NHAI shall operate and maintain the same pending the substitution of the Concessionaire by the Selectee. In the event NHAI does not assume receivership and declines the request of the Lenders Agent, the Lenders Agent shall for itself and each of the Senior Lenders, be entitled to seek the appointment of a Court Receiver for the Concessionaire's assets held as security and NHAI shall operate and maintain the same pending substitution as aforesaid and/or the takeover of the Concession Agreement including the Concession and the Project Highway in accordance with the Concession Agreement or this Agreement by the NHAI. All the receivables shall be deposited by the Receiver in the Escrow Account and shall be dealt with in accordance with the Concession Agreement. The Receiver shall be



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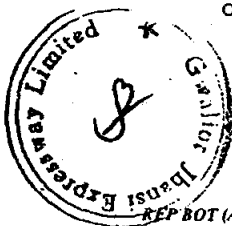
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responsible for protecting the assets in receivership and shall render a true and proper account of the receivership to the Senior Lenders in accordance with the terms of its appointment. The Receiver shall make best efforts to operate and maintain the Project Highway, in accordance with the obligations of the Concessionaire under the Concession Agreement. Any person other than NHAI may be appointed as Receiver only with the prior consent of NHAI. In a declaratory suit for appointment of a Receiver, notwithstanding that no recovery or mortgage suit or any suit or proceeding for enforcement of the Senior Lenders' security under the Financing Documents is instituted by the Lenders Agent for itself or the Senior Lenders, any action for appointment of NHAI as Receiver or appointment of an Independent Court Receiver shall be without prejudice for the other rights and remedies of NHAI, and of the Senior Lenders under the Financing Documents.

ARTICLE 5

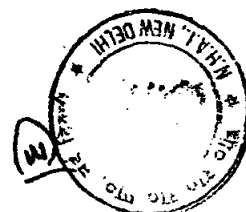
TERMINATION OF THE CONCESSION BY THE NHAI

- 5.1 If under the Concession Agreement an event occurs which shall entitle NHAI to Terminate the Concession Agreement, NHAI shall intimate the Senior Lenders prior to exercising of its decision to Terminate the Concession and advise the Senior Lenders to ensure the cure of the event which otherwise can result in termination of the Concession and the Concession Agreement. Such a notice shall entitle the Senior Lenders to cure any financial or other default of the Concessionaire within a period of two months from the date of the notice received from the NHAI failing which NHAI without any further notice to either the Concessionaire or the Lenders Agent/Senior Lenders, shall be entitled to Terminate the Concession Agreement.
- 5.2 Upon receipt of the Notice as referred to in Clause 5.1, intimating occurrence of an event which can entail Termination of the Concession Agreement including the Concession, the Senior Lenders shall be entitled to consider such notice as an Event of Default and may initiate steps to invite, negotiate and procure offers for the substitution of the Concessionaire by a Selectee in accordance with the procedure set forth in this Agreement.



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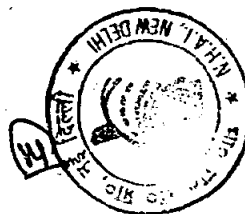
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ARTICLE 6**SENIOR LENDERS RIGHT TO RECEIVE TERMINATION PAYMENTS**

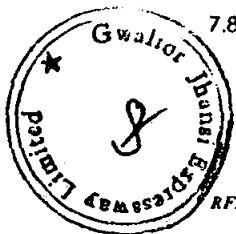
- 6.1 NHAI and Concessionaire hereby agree, and confirm that without prejudice to any other right or remedy, NHAI shall be entitled to deposit the Termination Payments into the Escrow Account and the Senior Lenders shall be entitled to receive the same without any further reference to or consent of the Concessionaire under and in accordance with the Concession Agreement towards the satisfaction of the Senior Lenders Dues out of and limited to the sum of Termination Payments worked out under and in accordance with the Concession Agreement. The Senior Lenders shall be entitled to appropriate any consideration received for the substitution as hereinabove provided from the Selectee towards the payment of their and NHAI's respective dues to the exclusion of the Concessionaire.
- 6.2 The Concessionaire hereby nominates, constitutes and appoints the Lenders Agent as its constituted attorney for doing all acts, deeds and things as may be required to be done for the substitution of the Concessionaire by the Selectee pursuant hereto and for receiving consideration for discharge of the Lenders' Dues pursuant to Clause 6.1.
- 6.3 The Concessionaire hereby expressly authorises payment of sums by NHAI on account of Termination Payments into Escrow Account and the Lenders Agent to draw the same therefrom for and on behalf of the account of the Senior Lenders notwithstanding the pendency of any dispute or objection or claim that the Concessionaire may have against the Senior Lenders and/or NHAI. The deposit by NHAI into the Escrow Account and payment to the Senior Lenders directly or through the Lenders Agent in accordance with this Agreement, made or caused to be made by NHAI shall constitute a valid discharge of its obligation of the payment thereof to the Concessionaire. All such payments shall stand charged to the Senior Lenders under the Financing Documents and shall be receivable by the Lenders Agent from the Escrow Account on behalf of the Senior Lenders to the exclusion of any receiver or liquidator appointed.



ARTICLE 7

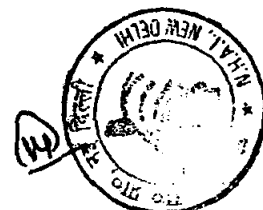
GENERAL

- 7.1 The Parties hereto expressly represent and warrant that they are duly empowered to sign and execute this Agreement and the Lenders Agent is duly and fully authorised by each of the Senior Lenders to enter into this Agreement on their behalf.
- 7.2 Notices under this Agreement shall be sent to the Addresses first hereinabove mentioned. Any change in the address of any Party shall be duly notified by a Registered post acknowledgement due and delivered to the other Parties.
- 7.3 The expressions "NHAI", the "Concessionaire", the "Senior Lenders" and the "Lenders Agent" herein used shall unless there be anything repugnant to the subject or context include their respective successors, legal representatives, administrators and permitted assigns.
- 7.4 This Agreement shall not be affected by reorganisation of any Senior Lender, Lenders Agent or NHAI and the successor – in interest of such Senior Lender, Lenders Agent or NHAI shall have the benefit of this Agreement.
- 7.5 No amendment, variation or modification to this Agreement shall be valid and effectual unless made in writing and executed by the duly authorised representatives of all the Parties hereto.
- 7.6 All stamp duties or other imposts and charges as are applicable on this Agreement or on amendment of the Concession Agreement or execution of fresh Concession Agreement for the purpose of substitution as aforesaid shall be borne by and be to the account of the Concessionaire. In the event of the Senior Lenders making such payment for the time being, it shall be deemed to be a part of the Lenders Dues.
- 7.7 The Parties hereby expressly agree that for the purpose of giving full and proper effect to this Agreement, the Concession Agreement and this Agreement shall be read together and construed harmoniously. The terms of this Agreement shall prevail in the event of any inconsistency with the Concession Agreement.
- 7.8 The consultation, recommendation or approval of the Lenders Agent under this Agreement shall always be taken as consultation, recommendation or approval of every concerned Senior Lender and each such Senior Lender shall be bound by the same and hereby waives its right to question or dispute



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the same.

- 7.9 This Agreement shall be in addition to and shall not be in derogation of the terms of the Financing Documents.
- 7.10 It shall not be necessary for the Senior Lenders or the Lenders Agent to enforce or exhaust any other remedy available to them before invoking the provisions of this Agreement.
- 7.11 Any dispute, difference or claim arising out of or in connection with or in relation to this Agreement which is not resolved amicably shall be decided finally by reference to arbitration to a Board of Arbitrators comprising of one nominee of each party to the dispute. Such arbitration shall be held in accordance with the Rules of Arbitration of the Indian Council of Arbitration and shall be subject to the provisions of the Arbitration and Conciliation Act, 1996. The arbitrators shall issue a reasoned award. The venue of such arbitration shall be New Delhi, India. The Award shall be final and binding on the Parties. The Parties agree and undertake to carry out the award of the arbitrators (the "Award") without delay.

This Agreement and rights and obligations of the Parties shall remain in full force and effect pending the Award in any arbitration proceeding hereunder. The Courts in New Delhi alone shall have jurisdiction over all matters arising out of or relating to the arbitration agreement contained herein or proceedings arising out of or relating to the arbitration proceedings thereunder.

**IN WITNESS WHEREOF THE PARTIES HITHERTO HAVE SET THEIR HANDS
HEREUNTO ON THE DAY, MONTH AND YEAR HEREIN ABOVE MENTIONED.**

SIGNED AND DELIVERED ON BEHALF OF

_____ LIMITED

BY: _____

Name :

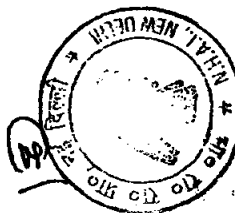
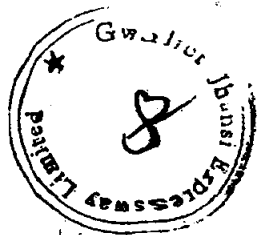
Title :

SIGNED AND DELIVERED ON BEHALF

OF THE NATIONAL HIGHWAYS AUTHORITY OF INDIA

BY: _____

Name :



Title :

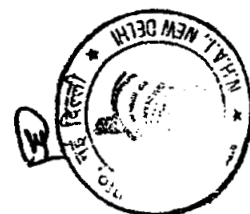
SIGNED AND DELIVERED ON BEHALF OF

SENIOR LENDERS

BY: _____

Name :

Title :



SCHEDULE V
Vesting Certificate

SCHEDULE V VESTING CERTIFICATE

National Highway Authority of India ("NHAI") hereby acknowledges:

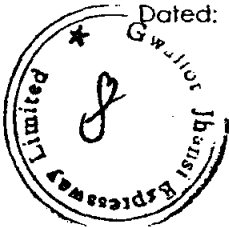
1. Compliance and fulfillment by the Concessionaire of the Divestment Requirements set forth in Clause 33.4 of the Concession Agreement in respect of the Project Highway;
2. Receipt of actual possession of the Project Highway from the Concessionaire; and
3. Receipt from the Concessionaire of a certificate confirming that there are no liens or encumbrances whatsoever on the Project Highway including Project Assets;

on the basis that upon the issue of this Vesting Certificate, NHAI shall be deemed to have acquired, and all title and interest of the Concessionaire in or about the Project Highway shall be deemed to have vested, unto NHAI free from all encumbrances, charges and liens whatsoever.

Notwithstanding anything to the contrary contained hereinabove it shall be a condition of this Vesting Certificate that in the event of any defect or efficiency in any of the Divestment Requirements set forth in Clause 33.4 of the Concession Agreement being found or discovered at any time hereafter, nothing contained in this Vesting Certificate shall be construed or interpreted as waiving the obligation of the Concessionaire to rectify and remedy the same and/or relieving the Concessionaire in any manner of the same.

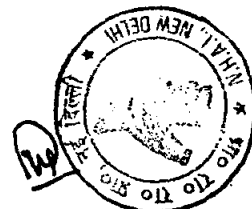
Agreed and accepted
For the Concessionaire
By:.....

Name:
Title:
Dated:



For National Highway Authority of India
By:.....

Name:
Title:
Dated:



SCHEDULE W
Passenger Car Unit Factors

SCHEDULE W

PASSENGER CAR UNIT FACTORS

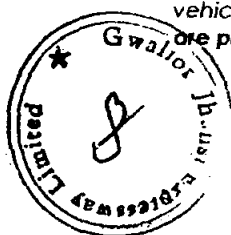
The equivalency factor for the conversion of different types of vehicles into equivalent Passenger Car Units (PCUs) based on their relative interference value shall be as per the following table:

Sl. No.	Vehicle Type	Equivalency factor**
Fast Vehicles		
1.	Motor Cycle or Scooter	0.50
2.	Passenger Car, Pick-up Van or Auto-rickshaw	1.00
3.	Agricultural Tractor, Light Motor Vehicle	1.50
4.	Truck or Bus	3.00
5.	Truck-trailer, Agricultural Tractor-trailer	4.50
Slow Vehicles ***		
6.	Cycle	0.50
7.	Cycle-rickshaw	2.00
8.	Hand Cart	3.00
9.	Horse-drawn vehicle	4.00
10.	Bullock Cart*	8.00

* For smaller bullock-carts, a value of 6 shall be appropriate.

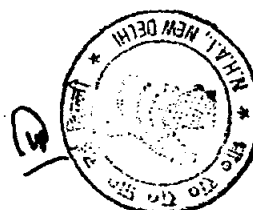
** Recommended PCU factors for various types of vehicles in accordance with IRC:64-1990 on "Guidelines for Capacity of Road in Rural Areas"

*** While computing the Design service volumes and the capacity of highway, slow vehicles (of the table) shall not be considered for the sections where Service Roads are provided.



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SCHEDULE X
Reporting and Record
Requirements

SCHEDULE X

REPORTING AND RECORD REQUIREMENTS

1.0 INTRODUCTION

The reporting and records requirements spelt out hereinunder have been provided in terms of the indicative type of information required. The Independent Consultant shall determine the following:

- Format of such reports and record requirements
- Software standards
- Number of Copies required
- The Language of the reports and records shall be English

2.0 Part I

Reporting Requirements

From the date of the Concession Agreement until the end of the Concession Period, the Concessionaire shall prepare and submit to the NHAI and Independent Consultant 1 copy each of the following reports/ Documents/ Drawings else otherwise stated in the Concession Agreement.

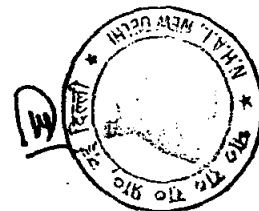
A. Design & Construction Stage

- 1 A detailed work plan supported with CPM/PERT charts for completion of all project activities related to the Project Highway, at the beginning of the Design Works.
- 2 **Monthly Progress Report:** Within 5 Days of end of each month or a part thereof, which falls within the Construction Period, the Concessionaire shall provide to the NHAI and the Independent Consultant the monthly report, which shall at least identify the following:
 - Working drawings submitted/ resubmitted to NHAI/ Independent Consultant during the month ended
 - NHAI/ Independent Consultant's comments there on, if any.
 - Concessionaire's compliance with NHAI/ Independent Consultant's comments on the drawings submitted to NHAI/ Independent



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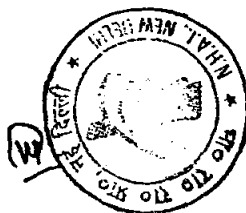
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Consultant, during the month ended.

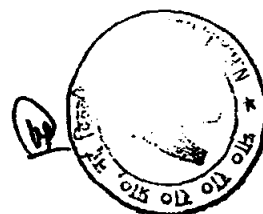
- "As built" drawings submitted to NHAI/ Independent Consultant during the month ended.
- Progress of pre-construction activities such as utility relocation and other obstructions.
- Concessionaire' compliance with the Inspection Report during the month ended, if any.
- Construction Constraints.
- Progress data with 'S' curves, if applicable; Project Data with contract detail and sectional completion details.
- Tests carried out during the month ended, if any; results of these Tests furnished to the NHAI/ Independent Consultant during the month ended, if any.
- Remedial measures taken by the Concessionaire on the basis of these Tests, if any.
- Traffic management steps undertaken by the Concessionaire during the month (particularly on the existing two lanes of the Project highway).
- Achievement of a Project milestone (Schedule H) during the month, if any. The Concessionaire shall also provide information on delay in achievement of such milestone, if any.
- Any suspension of the Construction Works by NHAI as per provisions of the Concession Agreement, if any. The Concessionaire shall also provide information on reason of such suspension, duration of such suspension and the steps undertaken by it to revoke such suspension.
- Any Change of Scope Notice issued by NHAI and status thereof.
- All actual or potential departures from the Project Completion Schedule (Schedule H).
- All grounds for a substantial Dispute which have occurred or which may reasonably be foreseen as likely to occur.
- All substantial disagreements among the Concessionaire, and the NHAI and/or Independent Consultant to the design/ construction of the Project Highway.
- The proposed measures to be taken by the Concessionaire to overcome such departures or to resolve such grounds for a Dispute.
- The date on which the Concessionaire expects the Project Highway to



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be completed.

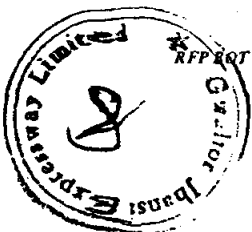
- The Concessionaire is required to maintain the existing two lanes during the Construction Period. This monthly construction report shall also contain information in respect of maintenance activity, if any, carried out by the Concessionaire during the month ended in respect of these existing two lanes. The Concessionaire and the Independent Consultants shall agree on the information requirements in respect of these two existing lanes during the Construction Period.
 - Monthly Weather Report giving daily temperature maximum and minimum value; rain fall and any other significant event.
- 3 Detailed Engineering Design Report including working drawings, and Environmental Management Plan.
 - 4 Video Recording as per clause 44.1 of the Concession Agreement.
 - 5 Monthly Escrow Account Report: With in 5 Days of end of each month which falls within the Operations Period, the Concessionaire shall provide to the NHAI and the Independent Consultant a copy of the report containing the summary of the receipts in and payments from the Escrow Account for the month ended.
 - 6 The Concessionaire shall supply to the NHAI free of charge the following documents prior to requesting the issue of the Completion Certificate:
 - 6.1 Detailed, accurately scaled, and sequentially numbered plans of the Project Highway "As Built" covering all relevant engineering features, which in relation to structures shall also include cross sections in each plane; and
 - 6.2 Copies of all geo-technical and borehole reports obtained by the Concessionaire in preparation for and during the construction of the Project Highway.
 - 7 All other reports in accordance with the provisions of the Concession Agreement.
 - 8 Such other reports as may be reasonably required by NHAI/ Independent Consultant.
 - 9 Additional Reports: The Concessionaire shall supply to the NHAI free of charge copies of all information, records and test results (including any interpretation



of such test results) resulting from any ground, physical or geophysical investigation or archaeological or ecological survey of the Site or Adjacent Areas.

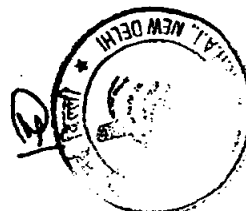
B. Operation Phase

- 1 **Monthly Traffic Report:** Within 5 Days of end of each month which falls within the Operations Period, the Concessionaire shall provide to the NHAI and the Independent Consultant a copy of the report containing the following information:
- 2 **Monthly Escrow Account Report:** Within 5 Days of end of each month which falls within the Operations Period, the Concessionaire shall provide to the NHAI and the Independent Consultant a copy of the report containing the summary of the receipts in and payments from the Escrow Account for the month ended.
- 3 **Monthly Operations Report:** Within 5 Days of end of each month or a part thereof, which falls within the Operations Period, the Concessionaire shall provide to the NHAI and the Independent Consultant a copy of the report, which shall identify the following, at the minimum:
 - Inspections undertaken by the Concessionaire during the month ended, if any.
 - Maintenance Reports submitted to the Independent Consultant during the month ended, if any.
 - O&M Inspection Compliance Report submitted to NHAI/ Independent Consultant during the month ended, if any.
 - Preventive/ Periodic maintenance undertaken during the month ended, if any.
 - Any material modifications made to the Project Highway during the month ended, if any.
 - All the accidents or incidents on the Project Road during the month under report (including all accidents on which a report has previously been made to the Concession Agreement).
 - Tests performed during operation and maintenance stage along with the defects identified on the Project Highway, if any.



RFP BOT (Annuity) NS I/BOT/MP-UP

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- Number and type of the complaints received from Users and others in respect of the Project Highway and the conduct of Operations.
- Incidents of emergency de-commissioning of the Project Highway during the month ended, if any.
- Incidents of lane-closure on the Project Highway during the month ended, if any. The Concessionaire shall provide information on reason, time of such lane-closures.
- all actual or potential departures from the O&M Requirements as specified in 'Schedule L'.
- all grounds for substantial Dispute which have occurred or may reasonably be foreseen as likely to occur.
- the proposed measures to be taken by the Concessionaire to overcome such departures or to resolve such grounds for a Dispute.

4. **Accident Reports:** As soon as practicable and in any event no later than 7 days following the occurrence of any accident on the Project Highway involving a fatality or serious personal injury or substantial property damage, the Concessionaire shall investigate the circumstances of such accident and submit to the NHAI and Independent Consultant a report setting out details of such accident and, to the extent they are known, the causes of such an accident, and the Concessionaire shall thereafter promptly report to the NHAI and/or Independent Consultant any additional details of such accident or its causes which become known to it.

5. Concessionaire shall submit a copy of the audited accounts within 120 days of the close of each Accounting Year after the Appointed Date.

6. All other reports in accordance with the provisions of the Concession Agreement.

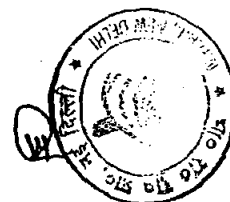
7. Such other reports as may be reasonably required by NHAI/ Independent Consultant.

8. **Additional Reports:** The Concessionaire shall supply to the NHAI/Independent Consultant free of charge copies of all information, records and test results.



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(including any interpretation of such test results) resulting from any ground, physical or geophysical investigation or archaeological or ecological survey of the Site or Adjacent Areas.

3.0 Part II

Record Requirements

The Concessionaire shall take the following action(s) in respect of preparation of the record, its submission to NHAI and retention by the Concessionaire itself.

1. Design	Retention Period of the Concessionaire
1.1 Design standards containing all relevant design assumptions, codes of practice, design loadings, design parameters and product data sheets for all components of Project Highway.	Till handover to NHAI at Termination of the Concession
1.2 Full set of final design calculations for all parts of the Project Highway including details of the influence on design of actual construction methods, and any changes or any remedial works during construction.	Till handover to NHAI at Termination of the Concession
1.3 Full set of working drawings	Until 2 years after issue of the Completion Certificate
1.4 Full specification for construction and all revisions made thereto.	Until 2 years after issue of the Completion Certificate
1.5 Change of Scope Order(s)	Till handover to NHAI at Termination of the Concession
2. Construction	
2.1 Video recording submitted to NHAI	Until 2 years after the issue of Completion



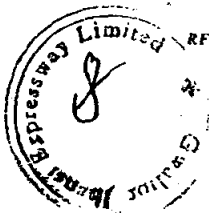
RFP BOT (Annuity) NS I/BOT/MP-UP

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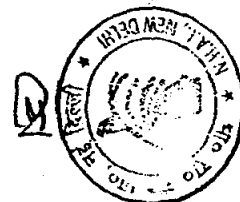
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	Certificate
2.2 Full set of construction site records relating to progress, testing of materials, monitoring of standards of workmanship, meteorological conditions, instructions issued and other site correspondence.	Till handover to NHAI at Termination of the Concession
2.3 Full set of "As-Built" drawings and schedules incorporating all changes to the design and all remedial measures applied to the Project Highway during construction, and all final As-built details and dimensions of the Project Highway. These drawings shall include permanent modifications made to suit the construction method.	Till handover to NHAI at Termination of the Concession
2.4 Full set of Tests results	Till handover to NHAI at Termination of the Concession
2.5 The appropriate proprietary rights, licenses, agreements and permissions for materials, methods, processes and systems used or incorporated into the Project Highway.	Till handover to NHAI at Termination of the Concession
2.6 Monthly Progress Reports	Till handover to NHAI at Termination of the Concession.
3. Operations and Maintenance	
3.1 Full records of all incidents which affect the operation and/or maintenance of the Project Highway including traffic accidents.	Till handover to NHAI at Termination of the Concession
3.2 Full records of inspections and surveys and results of such inspections and surveys (including photographs where applicable).	Till handover to NHAI at Termination of the Concession
3.3 Details of all repairs to the Project Highway and/or replacement, including photographs. As-built drawings and other documentary records.	Till handover to NHAI at Termination of the Concession



RFP BOT (Annuity) NS I/BOT/MP-UP

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3.4 Full sets of all Monthly Reports	Till handover to NHAI at Termination of the Concession
3.5 Adequate records of adverse meteorological conditions.	Till handover to NHAI at Termination of the Concession
3.6 Records of landscape planting.	Till handover to NHAI at Termination of the Concession
3.7 Schedule and strip plan of grassed areas with details of the Routine Maintenance required in the normal course.	Till handover to NHAI at Termination of the Concession
3.8 Record of all permanent traffic signs on the Project Highway.	Till handover to NHAI at Termination of the Concession
3.9 All financial and accounting records to be maintained as per Applicable Laws	Till handover to NHAI at Termination of the Concession
3.10 Encroachment particulars and details	Till handover to NHAI at Termination of the Concession

4. All other records in accordance with the provisions of the Concession Agreement.

5. Additional Requirements

- 5.1 When there is a conflict between the Reporting and Record Requirement of Schedule 'X' and a requirement in respect of these stated elsewhere in this Agreement, the latter shall take precedence.
- 5.2 The requirements set out in Reporting and Record Requirements of this Schedule 'X' indicate the minimum requirements to be complied with but are not limited to else only.
- 5.3 Availability of Records shall be as follows:

- 5.3.1 All records of operational aspects of the record keeping system shall be retained.



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- 5.3.2 Operations' Records shall be systematically and periodically up-dated and filed so as to be readily retrievable.
- 5.3.3 All records which have been superseded but are still of historical, contractual or legal importance shall be retained and filed systematically so as to be available anytime.
- 5.3.4 Texts of all documents shall be prepared and recorded using agreed software systems and retained in hard form and on diskette, with full back-up diskettes available in case of diskette corruption.

RFP BOT (Annuity) NS I/BOT/MP-UP



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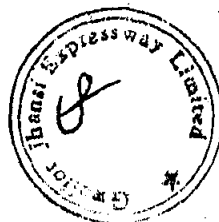
**Addendum/ Amendments and
Enclosures and Additional
Amendments to Technical
Schedules**

Sub: RFP Part-IV for all the Seven packages

Sl.no.	Relevant Clause of RFP	As in Issued document	Revised/Modified to
1.	Annexure-II to RFP Part IV and drawings in Schedule -B of RFP Part-IV		"The technical features in the drawings given in Annexure-II such as foundation depth, reinforcement details, thickness of various elements of structures are indicative and for reference purpose only. The actual requirement shall have to be worked out by the concessionaire to meet the standards and specifications indicated in the RFP, which would be approved by IC/NHA!"
2.	Clause 2.7.10 of Schedule-D of RFP Part-IV	Nil	"TMT reinforcement manufactured by reputed producer such as SAIL, RINL, TISCO etc. shall be used for all structures"
3.	Clause 1.2 of Schedule-D of RFP Part-IV	"Also the linear waterway requirement in the Annexure - I shall be strictly followed"	"Also the linear waterway in the Annexure - II shall be strictly followed"
4.	Clause 2.3 of Schedule-J of RFP Part-IV		Add the following at the end of this clause , "And the maximum roughness for purpose of this test shall be 1800 mm/km".
5.	Clause 1 of Schedule L of RFP Part IV	Line number four from top - "In addition, the Concessionaire.....as mentioned in Schedule A"	Stands deleted
6.	Clause 1 of Schedule-L of RFP Part-IV-	"Note: • In the above formula..... Project Highway • if the additional ...the Concessionaire • Any lane.....lane availability"	Stands Deleted



Sl.no.	Relevant Clause of RFP	As in issued document	Revised/Modified to
7	Clause 4.3.1 of Schedule _L of RFP Part-IV	"The riding.... i) Surface2000mm/Km...Integrator. ii) Surface3000mm/Km.....20000mm/Km"	"The riding.... i) Surface1800mm/Km...integrator. ii) Surface ...2500mm/Km.....1800mm/Km"
8	Schedule -C "HIGHWAY LIGHTING"	"The lighting in classified urban areas should be on the Project Highway. grade separators, toll plaza and main administrative base camp. Traffic aid posts shall be provided in accordance with the standards set in Schedule D."	"The Concessionaire should provide lighting on the Project Highway on location: (i) Classified urban area (ii) grade separators (iii) Toll plaza (iv) Main administrative base camp"



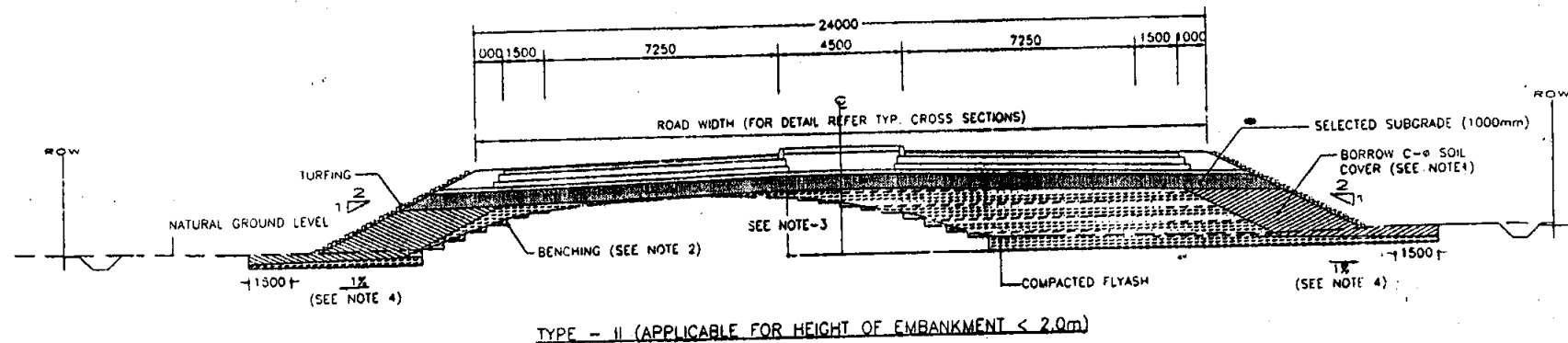
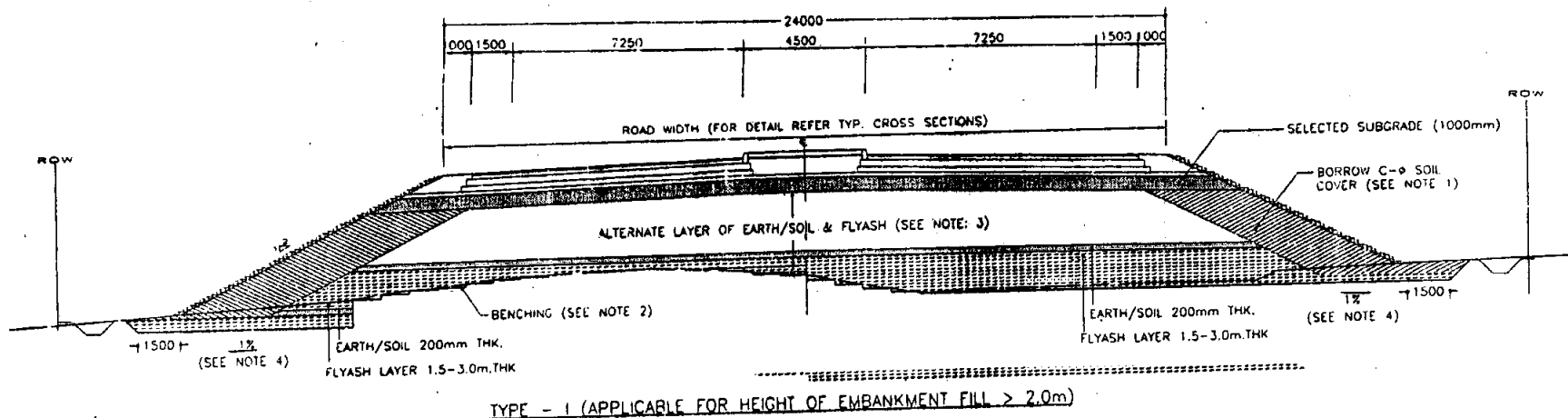
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Sub: NS I/ BOT/ MP-UP ,RFP Part-IV

Sl.no.	Relevant Clause of RFP	As in issued document	Revised/Modified to
1	<u>Clause 2.11 of Schedule -A of RFP Part-IV</u>	Nil	"The Chainage in Schedule-A refer to only existing Chainage"
2.	<u>"Note" of drawings in Annexure-II of RFP Part-IV</u>	Nil	" All dimensions until mentioned otherwise should be in mm"
3.	<u>Chainage of Fly Over FO-17/1 in "Title" of Pages 15& 16 of Annexure-II to RFP Part-IV</u>	"Km 7.75"	"Km 16.187"
4.	<u>Table B-1(a) & B-1(b) of Schedule -B of RFP Part-IV</u>	-	"There is a Over Lapping of 2.25 Km from Km 54 to Km 56.25" in table B-1a and B-1b
5.	<u>Schedule -B of RFP Part-IV</u>	-	Cross section of road using "Fly Ash" has been enclosed.



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NOTES:

- BORROW C-φ SOIL COVER.
 - UPTO 2.0m HEIGHT OF EMBANKMENT 1.0m
 - > 2.0m HEIGHT OF EMBANKMENT 2.0m
- CONTINUOUS HORIZONTAL BENCHES, EACH AT LEAST 300 MM WIDE SHALL BE CUT INTO THE EXISTING SLOPE FOR ENSURING ADEQUATE BOND WITH THE FRESH EMBANKMENT TO BE ADDED. (REF: CLAUSE 305.4.1 OF SECTION 300 IN MORT&M SPECIFICATION)
- SELECTED SOIL (200mm THK.) & FLYASH (1500mm TO 3000mm THK.) TO BE USED AS SANDWICH LAYER.
- 1% CROSS SLOPE TOWARDS PROPOSED TOE OF EMBANKMENT SHALL BE GIVEN IN EXCAVATED GROUND TO DRAIN OUT THE WATER OUTSIDE.



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In This Drawing: 2A Engineers & Management Associates 11, Laxmi Narayan, New Delhi 110002		Scale: 0 50 100m SCALE	NOTE:- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED	NATIONAL HIGHWAY AUTHORITY OF INDIA Ministry of Road Transport & Highways	TYPICAL CROSS SECTION WITH USING FLYASH FOR EMBANKMENT FILLING	DRG NO. NHA/GW/JHNNH/75/FLY ASH/01 DATE: Feb. 2006 DESIGNED: SANJAY GUPTA CHECKED: S. GOSWAMI APPROVED: H.R.G. (Engrg.)
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**Additional AMENDMENT TO THE BID DOCUMENTS FOR 7 PACKAGES UNDER BOT(ANNUITY) IN THE STATES OF MADHYA PRADESH AND
UTTAR PRADESH**

Sub: RFP Part-IV

Sl.no.	Package No.	Relevant Clause of RFP	As in issued document	Revised/Modified to
1.	NS-1/BOT/UP-1	Clause 3 of Schedule-C of RFP Part-IV relating to "Pedestrian / Cattle Crossing facilities"	"Cattle / Pedestrian Underpasses for the provision of daylight"	Clause 3 of Schedule-C is to be read as "Vehicular Underpasses, Cattle Crossings/Animal Crossings, & Pedestrian Underpasses shall be provided by the Concessionaire at locations indicated) either in Schedule -B of RFP Part-IV or in Annexure-I & II of Schedule B&C of RFP Part-IV"
2.	NS-1/BOT/MP-1	Clause 3 of Schedule-C of RFP Part-IV relating to "Pedestrian / Cattle Crossing facilities"	"Cattle / Pedestrian Underpasses for the provision of daylight"	Clause 3 of Schedule-C is to be read as "Vehicular Underpasses, Cattle Crossings/Animal Crossings, & Pedestrian Underpasses shall be provided by the Concessionaire at locations indicated either in Schedule -B of RFP Part-IV or in Annexure-I & II of Schedule B&C of RFP Part-IV"
3	NS-1/BOT/MP-UP	Clause 4 of Schedule-C of RFP Part-IV relating to "Pedestrian / Cattle Crossing facilities"	"Cattle / Pedestrian Underpasses for the provision of daylight"	Clause 4 of Schedule-C is to be read as "Vehicular Underpasses, Cattle Crossings/Animal Crossings, & Pedestrian Underpasses shall be provided by the Concessionaire at locations indicated either in Schedule -B of RFP Part-IV or in Annexure- I & II of Schedule B&C of RFP Part-IV"
4	NS-1/BOT/UP-2	Clause 2.2 of Schedule-C of RFP Part-IV relating to "Underpass / Cattle Crossing facilities"	"Underpass & Cattle Crossings..... provision of daylight"	Clause 2.2 of Schedule-C is to be read as "Vehicular Underpasses, Cattle Crossings/Animal Crossings, & Pedestrian Underpasses shall be provided by the Concessionaire at locations indicated either in Schedule -B of RFP Part-IV or in Annexure- I & II of Schedule B&C of RFP Part-IV"
5	NS-1/BOT/UP-3	Clause 2.2 of Schedule-C of RFP Part-IV relating to "Underpass / Cattle Crossing facilities"	"Underpass & Cattle Crossings..... provision of daylight"	Clause 2.2 of Schedule-C is to be read as "Vehicular Underpasses, Cattle Crossings/Animal Crossings, & Pedestrian Underpasses shall be provided by the Concessionaire at locations indicated either in Schedule -B of RFP Part-IV or in Annexure- I & II of Schedule B&C of RFP Part-IV"
6	NS-1/BOT/MP-2	Clause 3 of	"Vehicular Underpass &	Clause 3 of Schedule-C is to be read as



000489

Sl.no.	Package No.	Relevant Clause of RFP	As In Issued document	Revised/Modified to
		Schedule-C of RFP Part-IV relating to "Underpass / Cattle Crossing facilities"	Cattle Underpasses..... provision of daylight"	"Vehicular Underpasses, Cattle Crossings/Animal Crossings, & Pedestrian Underpasses shall be provided by the Concessionaire at locations indicated either in Schedule -B of RFP Part-IV or in Annexure- I & II of Schedule B&C of RFP Part-IV"
7	NS-1/BOT/MP-3	Clause 3 of Schedule-C of RFP Part-IV relating to "Underpass / Cattle Crossing facilities"	"Vehicular Underpass & Cattle Underpasses..... provision of daylight"	Clause 3 of Schedule-C is to be read as "Vehicular Underpasses, Cattle Crossings/Animal Crossings, & Pedestrian Underpasses shall be provided by the Concessionaire at locations indicated either in Schedule -B of RFP Part-IV or in Annexure- I & II of Schedule B&C of RFP Part-IV"
8.	NS-1/BOT/MP-UP	Clause No.10.3 of Schedule B of RFP Part-IV	"A minimum length of 9.600 m of earth retaining structures shall be provided"	"A minimum length of 9600 m of earth retaining structures shall be provided"



300490

Letter of Award (LoA) by NHAI



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Shipping, Road Transport and Highways)

जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली-110 075

G-5 & 6, Sector-10, Dwarka, New Delhi-110075

दूरभाष / Phone: 91-11-25074100/25074266

फैक्स / Fax: 91-11-25093507 / 25093514

ईमेल / E-mail: 2223-12313 / 2460 / 25

NHA/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/NS-I/2006/111

Date: 31-05-2006

To

M/s DSC- Apollo Consortium

C-66, South Extension-II,

New Delhi-110 049

Phone No.91-11-26262470

Fax No.91-11-26252386

Kind Attn.: Sh. H.S.Kohli, Authorized Signatory

Sub:- Design, Construction, Development, Finance, Operation and Maintenance of the work of Rehabilitation and Upgrading to four lane from km 16.000 to km 96.127 on National Highway No. 75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh under North-South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis- Package No. NS-1/BOT/MP-UP -Letter of Acceptance (LOA)-Reg

Sir,

This is to notify that your Proposal submitted on 16th March 2006 and your final offer indicated in your letter No.DSCL/HO/ND/2006, dated 18-04-2006, for Design, Construction, Development, Finance, Operation and Maintenance of the work of Rehabilitation and Upgradation from km 16.000 to km 96.127 on National Highway No. 75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh under North-South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis for a semi annuity amount of Rs 52.29 Crores(Rupees Fifty Two Crores and Twenty Nine Lakhs only) is hereby accepted by NHA and thereby declaring you as "the successful bidder".

2. You are required to furnish the Performance Security in the form of an Unconditional Bank Guarantee for an amount equivalent to 5% (Five Percent) of the Total Project Cost in the Proforma as provided in accordance with Schedule F of RFP Part -III within the period of 30 (thirty) days from the date of receipt of this LOA and also prior to execution of the Concession Agreement as indicated in clause 1.37.1 of Part-I and Data Sheet.

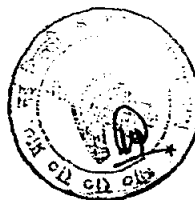
3. You are hereby requested to execute the Concession Agreement within 45 days of receipt of LOA in accordance with Clause 1.36.1 of RFP Part-I

4. It is also informed that default in furnishing Performance Security and/or signing of Concession Agreement within the period indicated will entail forfeiture of Bid Security as stated in Clause 1.14.5 and 1.37 of RFP Part-I.

Please acknowledge receipt of this letter.



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Yours faithfully,

(Signature)
(P.Ravinder Rastogi)
General Manager(N-II)

300491

Receipt of LoA

P.O. Box 118, Salisbury House,
Victoria Street, Douglas, Isle of Man (UK)

Tel.: (44) 181-9598877
Fax: (44) 181-9063944

Ref No.DSCL/2K5/MR/1884

Date : 6th June, 2006

General Manager (N-II)
National Highway Authority of India
G- 5 & 6, Sector - 10
Dwarka
New Delhi 110 075.

Kind Attn: Mr. P. Ravinder Rao

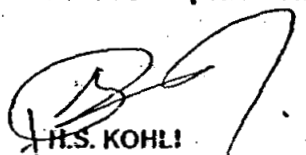
Sub: Design, Construction, Development, Finance, Operation and Maintenance
of Km 16.000 to Km 96.127 on National Highway no. 75 (NH-75) in the States
of Uttar Pradesh and Madhya Pradesh" – Letter of Acceptance

Dear Sir,

We acknowledge with thanks your letter no. NHA/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/NS-I/2006/1111 dated 31st May'2006 for the subject project received by us through Fax on 5th June'2006 at 19:56 Hrs.

The arrangement of the Performance Security is being organized accordingly.

Thanking you,
For DSC – Apollo Consortium


H.S. KOHLI
Authorized Signatory



000492

Certificate of Incorporation of
SPV



सत्यमेव जयते

Form 1

Certificate of Incorporation

Corporate Identity Number : U45203DL2006PLC150616

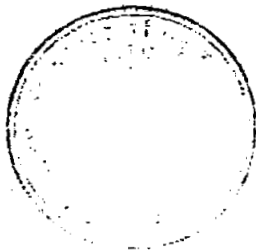
2006 - 2007

I hereby certify that GWALIOR JHANSI EXPRESWAYS LIMITED is this day incorporated under the Companies Act, 1956 (No. 1 of 1956) and that the company is limited.

Given under my hand at Delhi this SIXTH day of JULY TWO THOUSAND SIX.

V.F. KATKAR

Asstt. Registrar of Companies
National Capital Territory of
Delhi and Haryana



300493

***Letter regarding submission of
documents required for signing
of Concession Agreement***



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)
National Highways Authority of India

(Ministry of Shipping, Road Transport and Highways)

जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली-110 075

G-5 & 6, Sector-10, Dwarka, New Delhi-110075

दूरभाष / Phone : 91-11-25074100/25074200

फैक्स / Fax : 91-11-25093507 / 25093514

एक्स. / Extn.: 2223 / 2318 / 2468 / 2553

NHA/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/NS-I/2006 / 117)

Date: 18-07-06

To

M/s DSC- Apollo Consortium

C-66, South Extension-II,

New Delhi-110 049.

Phone No.91-11-26262470

Fax No.91-11-26252386

Kind Attn.: Sh. H.S.Kohli, Authorized Signatory

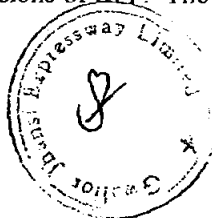
Sub:- Design, Construction, Development, Finance, Operation and Maintenance of the work of Rehabilitation and Upgrading to four lane from Km. 16.000 to Km. 96.127 on National Highway No. 75 (NH-75) in the States of Uttar Pradesh & Madhya Pradesh under North South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis – Package No. NS-I/BOT/MP-UP: Request for additional time for formation of SPV and submission of Performance security.

Sir,

Please refer to your letter no. DSCL-AEL/NHA/GJ/040701/01 dated 04th July, 2006 thereby requesting additional time for submission of performance security as the SPV is yet to be formed. It is informed that the Performance Security which should be as per Schedule-F of RFP Part-III and issued on behalf of the SPV along with the documents which are required before signing of the Agreement (as mentioned below) shall have to be submitted on or before 31st July, 2006.

1. Draft Concession Agreement to be signed between NHA and SPV.
2. Certificate of Incorporation of SPV (From Registrar of Companies)
3. Certificate of Commencement of Business. (From Registrar of Companies)
4. Memorandum of Association and Articles of Association of 'SPV'.
5. Board Resolution of 'SPV' regarding authorization of personnel for signing of Concession Agreement.
6. Memorandum of understanding between the Consortium partners (Submitted at the time of submission of bids.)
7. Certificate from Consortium Members authorizing the investment in 'SPV'.
8. Register of Members of SPV.
9. Certified list of Directors of SPV.

Failure to submit the above mentioned documents within the stipulated date will invite action as per the provisions of REP. The Concession Agreement shall also have to be signed on or before 17th August, 2006.



Yours faithfully,

(P. Ravinder Rao)
General Manager (N-II)

300494

***Submission of Compliance
List, Memorandum of
Association and other
submission by SPV***

GWALIOR JHANSI EXPRESWAYS LIMITED

Ref. No. : DSCL/2K6/MR/1901
Date : 3rd July, 2006

May be in date
C.G.M (NSE)

D
4/8

The General Manager (N-II)
National Highways Authority of India
G-586, Sector-10,
Dwarka, New Delhi-110 075

OK
2/8

encl
RKS

35/COM/257
7/8/06

C.M (N-II)
1/8/06

Sub: Design, Construction, Development, Finance, Operation and Maintenance of Km 16.000 to Km 96.127 on National Highway no. 75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh - Signing of Concession Agreement

Ref: NHA/PH-II/NHDP/BOT(ANNUITY)/GM (N-II)/NS-I/2006/117 dated 18-07-2006

Dear Sir,

This has reference to your captioned letter, requiring certain information/documents. The desired information/documents are furnished here in below:

1. Performance Guarantee of 2% of Total Project Cost (TPC) i.e. Rs. 12.08 Crore as under
 - a. BG no.0007BG00128406 dated 3rd August'06 for an amount of Rs. 9.50 Crore (Rupees Nine Crore Fifty Lacs only) valid upto 2nd March'07.
 - b. BG no.0007BG00128506 dated 3rd August'06 for an amount of Rs. 2.58 Crore (Rupees Two Crore Fifty Eight Lacs) valid upto 2nd March'07
2. Performance Guarantee of 3% of Total Project Cost (TPC) i.e. Rs. 18.12 Crore vide BG no. 0007BG00128606 dated 3rd August issued from ICICI Bank valid upto 2nd August 2009
3. Certificate of Incorporation of SPV (From Registrar of Companies).
4. Certificate of Commencement of Business (From Registrar of Companies).

5. Memorandum of Association and Articles of Association of SPV



Regd. Office : C-66, South Extension Part-II, New Delhi - 1100 049
Phones: 2625 5835/ 6837/ 2625 2753 Fax: 2625 2386, 2625 2248

000 495

GWALIOR JHANSI EXPRESWAYS LIMITED

6. Board Resolution of SPV regarding authorization of personnel for signing of Concession Agreement.
7. Memorandum of understanding between the Consortium partners (Submitted at the time of submission of bids).
8. Certificate from Consortium members authorizing the investment in SPV.
9. Register of Members of SPV.
10. Certified list of Directors of SPV.

We hope that you will find the above information satisfactory.

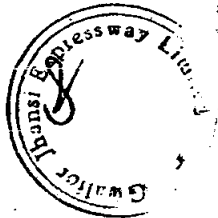
Thanking you,

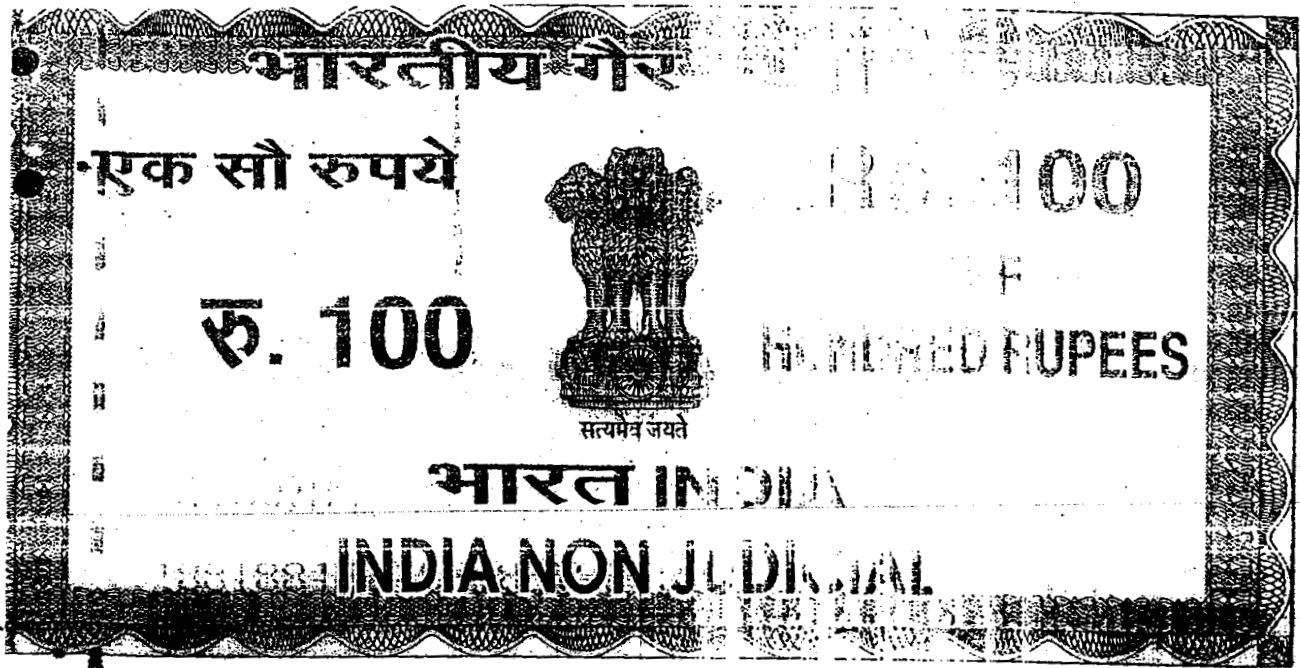
For Gwalior-Jhansi Expresways Limited

M.S. Narula

**M.S. Narula
Director**

Encl: as above





दिल्ली DELHI

B 373387

This Stamp Paper forms an integral part of Bank Guarantee No. 0007BG00128606, Dated
03.08.2006

For ICICI Bank Limited

Madhur Jain
Authorised Signatory
SA, Conn. Place, N. Delhi

MADHUR JAIN
Manager J-133

DHIRAJ TRIVEDI
Manager T-111



300497

00078100128606, dated 03.08.2006



SCHEDULE F

BANK GUARANTEE FOR PERFORMANCE SECURITY

[Bidders should NOT provide the Performance Security with their Proposals. Only the Sponsor will be required to provide the Performance Security which must be in this form or in a similar form acceptable to NHAI.]

[To be issued by a Scheduled Bank based in India and having a net worth of at least Indian Rupees One Thousand Crores only and having a branch in the proximity of the Project or at any place acceptable to NHAI]

From: ICICI Bank Limited,

A-9, Phelps Building, Connaught Place,
New-Delhi-110001

[Name of the Bank, and its Branch Address]

To: National Highway Authority of India,
6/3-C-6, Sector-10, Dwarka,
New-Delhi-110045

A. NHAI vide Letter no. NHAI/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)(NS-1)/2006/1111 dated 31st May 2006 has issued Letter of Acceptance to DSC - Apollo Consortium for (i) Design, Construction, Development, Finance, Operation and Maintenance of Km 50.00 to Km 96.127 on National Highway no. 75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh on BOT (Annuity) basis (the "Project").

DSC - Apollo Consortium has promoted and incorporated a Special Purpose Vehicle in the form of a limited liability company Gwalior Jhansi Expressways Limited (the "Concessionaire") having its registered office at C-66, South Extension, Part-II, New-Delhi-110049, to enter into a Concession Agreement for undertaking, inter alia, the Project and to perform and discharge all its obligations thereunder.

B. In order to perform and discharge all its obligations concerning the "Project" the Concessionaire is required to give National Highways Authority of India (NHAI) a guarantee by a recognized bank based in India in the sum of Rs. 18.12 Crores Only (Indian Rupees Eighteen Crores Twelve Lacs Only) as security for compliance by the concessionaire with its obligations under the Concession Agreement during the Construction period.



For ICICI Bank Limited

[Signature]
Authorised Signatory
9A, Conn. Place, N. Delhi
MADHUR JAIN

Manager J-133

DHIRAJ TRIVEDI
Manager T-111

000498

01015103128606, Dated 03-08-01



C. At the request of the successful bidder and/ or the Concessionaire the Guarantor has agreed to give NHAI the said guarantee on the terms set out herein.

GUARANTEE

1. We, ICICI Bank Limited, A-9, Phelps Building, Connaught Place, New-Delhi-110001 (Name of Bank) (the "Guarantor") with its registered office at Landmark, Race Course Circle, Baroda-390007 (Address of Head Office), unconditionally guarantee to pay NHAI upon first written demand and without any deduction any sum claimed by NHAI up to a maximum of Rupees 18.12 Crores Only (Indian Rupees Eighteen Crores Twelve Lacs Only) (the "Guaranteed Sum") subject to the conditions set out below.
2. The Guarantor unconditionally and irrevocably promises to pay on demand the Guaranteed Sum, without protest or demur whatsoever upon the receipt of a written demand from NHAI, which shall be final and conclusive as against the Guarantor requiring the Guarantor to make the payment to NHAI.
3. The Guarantor waives any requirement that NHAI demand any debt or payment from the Concessionaire before presenting it with a demand under this Guarantee.
4. NHAI shall notify the Guarantor of its demand for payment of the Guaranteed Sum without any deduction of whatsoever nature and without reference to any claim or counter claim or set off, in accordance with the Concession Agreement. Such notification by NHAI shall be conclusive and binding on the Guarantor.
5. Upon encashment and appropriation of the whole or any portion of the Guaranteed Sum by NHAI in accordance with the Concession Agreement, the Guarantor shall be obliged to replenish the existing Guarantee or provide fresh guarantee of the Guaranteed Sum and the Concessionaire is deemed to have made the request for such fresh guarantee upon the execution and furnishing of this Guarantee in the first instance.
6. No underlying dispute as between NHAI and the Concessionaire nor any pending application for interim relief or arbitration proceedings or other legal proceedings shall constitute any ground for prevention, delay or obstruction for making payment to NHAI by the Guarantor and the existence of any disputes or differences or claims in arbitration or otherwise shall not constitute any ground for nonpayment on this Guarantee.



For ICICI Bank Limited

Madhur Jain
Authorized Signatory
9A, Connaught Place, N. Delhi

MADHUR JAIN
Manager J-133



CHIRAJ TRIVEDI
Manager T-11

000459

00018600128605, Dated 03.08.2009



- 77 7. This guarantee is valid and effective from its date. This guarantee and the
78 Guarantor's obligations under it will terminate on the Commercial Operations
79 Date of the Project as advised to the Guarantor in writing by NHAI. However
80 the Guarantee shall be released earlier by NHAI to the Concessionaire, upon
81 contribution of the Equity (excluding) Equity Support, if any by the
82 Shareholders of the Concessionaire to the extent of 100% and upon the
83 Concessionaire having expended on the Project and paid out an aggregate
84 sum of not less than 20% of the Total Project cost as certified by the Statutory
85 Auditors of the Concessionaire but provided the Concessionaire is not in
86 breach of this Agreement or the Concession Agreement.
- 87 8. The Guarantor agrees that its obligation to pay any demand made by NHAI
88 before the termination of this Guarantee will continue until the amount
89 demanded has been paid in full.
- 90 9. This Guarantee shall be valid and effective up to 03.08.2009 (Date of validity
91 of the Bank Guarantee for Performance Security) for enabling NHAI to lodge a
92 claim for payment under the Guarantee till the date of expiry of the term of
93 the Guarantee. The Guarantor shall be obligated to make payment upon the
94 Guarantee forthwith on demand, if the claim is lodged within the claim validity
95 period and the obligation to pay is subject to normal limitation for payment of
96 claims upon a guarantee. Time is of essence for payment and in the event of
97 failure to make payment, Guarantor shall be obligated to pay compound
98 interest at 2% above the prime lending rate of the Guarantor institution,
99 compounding quarterly in the event of the Guarantor's failure to make
100 payment upon the Guarantee for any reason whatsoever. Payment of interest
101 as provided is no excuse for delayed payment or nonpayment of the
102 Guaranteed Sum.
- 103 10. No change in the constitution of the Concessionaire or of the Guarantor shall
104 be a ground for release of the Guarantee and no variation in the concession
105 agreement made post selection of the bidder, or post making of the bid, shall
106 constitute a variation, which would, subject to the terms and conditions of this
107 agreement, discharge the Guarantor. The Guarantor shall notwithstanding
108 such change, be bound to make payment upon the Guarantee on demand.
- 109 11. The Guarantor agrees that no change, addition to or other modifications to
110 the terms of the Concession Agreement or to any documents which have or
111 may be made between NHAI and the Concessionaire will in any way release it
112 from any liability under this Guarantee and that it waives any requirement for
113 notice of any such change, addition or modification.
114

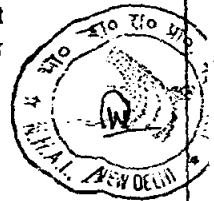


For ICICI Bank Limited

Madhur Jain
Authorised Signatory
9A, Conn. Place, N. Delhi

MADHUR JAIN
Manager J-133

DHIRAJ TRIVEDI
Manager J-111



300500

000784 00123604 . Dated 03.08.2006



12. The Guarantor agrees that it will not assign its obligations under this Guarantee without the prior written consent of NHAI. NHAI will not unreasonably withhold its consent if the proposed assignee is of at least equal financial standing to the Guarantor and the assignee assumes in writing the obligations of the Guarantor under this Guarantee at the same time or before the assignment.

13. This Guarantee binds the Guarantor, its successors and permitted assigns.

Not with standing anything contained herein above in the Guarantee;

1. Our aggregate liability under the bank Guarantee on account of multiple invocation or replenishment of the existing Guarantee or fresh guarantees shall not exceed Rs. 18.12 Crores Only (Indian Rupees Eighteen Crores Twelve Lacs Only)

2. Our liability under this bank Guarantee shall be valid up to 02.08.2009

3. No rights shall be accrued unless we receive (if you serve upon us) a written claim or demand under this Guarantee on or before 02.08.2009 at ICICI Bank 9A, Connaught Place, New Delhi - 110001.

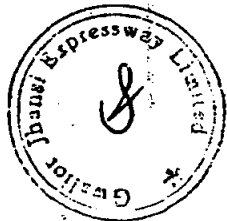
SEAL OF [THE BANK]
NAME OF [THE BANK]
SIGNATURE
NAME
TITLE
DATE

For ICICI Bank Limited

[Signature]

Authorised Signatory
9A, Conn. Place, N. Delhi

MADHUR JAIN DHIRAJ TRIVEDI
Manager J - 133 Manager T - 111



900501



दिल्ली DELHI

B 373385

This Stamp Paper forms an integral part of Bank Guarantee No. 0007BG00128506, Dated
03.08.2006

For ICICI Bank Limited

Madhur Jain
Authorized Signatory
9A, Conn. Place, N. Delhi

MADHUR JAIN
Manager J - 133

DHIRAJ TRIVEDI
Manager T - 111



900502

Sr. No. 018644

BANK GUARANTEE
ICICI Bank Limited
(Incorporated in India)

ICICI Bank

BG Number: 0007BG00128506

Issue Date: 3/8/2006

SCHEDULE F

BANK GUARANTEE FOR PERFORMANCE SECURITY
(To be issued by a scheduled Bank in India)

Bidders should NOT provide the Performance Security with their Proposals. Only the Sponsor will be required to provide the Performance Security which must be in this form or in a similar form acceptable to NHAI.]

[To be issued by a Scheduled Bank based in India and having a net worth of at least Indian Rupees One Thousand Crores only and having a branch in the proximity of the Project or at any place acceptable to NHAI]

From: ICICI Bank Limited,
A-9, Phelps Building, Connaught Place,
New Delhi-110001
[Name of the Bank, and its Branch Address]
To: National Highway Authority of India,
G-5 & G-6, Sector-10, Dwarka,
New Delhi-110045

A. NHAI vide Letter No. NHAI/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)(NS-1/2000/111 Dated 31st May 2006 has issued Letter of Acceptance to DSC - Apollo Consortium for (i) Design, Construction, Development, Finance, Operation and Maintenance of Km 16.000 to Km 96.127 on National Highway no. 75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh on BOT (Annuity) basis (the "Project").

DSC Apollo Consortium through its a Special Purpose Vehicle Gwalior Jhansi Expressways Limited (the "Concessionaire"), will enter into a Concession Agreement for undertaking, inter alia, the Project and will perform and discharge all its obligations thereunder.

B. In order to perform and discharge all its obligations concerning the "Project" the Concessionaire is required to give National Highways Authority of India (NHA) a guarantee by a recognized bank based in India in the sum of Rs. 2.58

For ICICI Bank Limited

[Signature]
Authorized Signatory
9A, Conn. Place, N. Delhi

1/1

MADHUR JAIN
Manager J-133

DHIRAJ TRIVEDI
Manager J-111

Registered Office: "Landmark", Race Course Circle, Vadodra-390 007. Phone : 0265-2340020 Fax: 0265-2341661
Email: corporatecare@icicibank.com SWIFT : ICIC IN BB

BG Number: 0007BG00128506

Issue Date: 3/8/2006

Crores Only (Indian Rupees Two Crores Fifty Eight Lacs Only) as security for compliance by the concessionaire with its obligations under the Concession Agreement during the Construction period.

- C. At the request of the successful bidder and/ or the Concessionaire the Guarantor has agreed to give NHAI the said guarantee on the terms set out herein.

GUARANTEE

1. We, ICICI Bank Ltd having our registered office at Landmark, Race Course Circle, Alkapuri, Baroda - 390007 and among others a branch office at 9A, Connaught Place, New Delhi - 110001 (the "Guarantor") with its registered office at Landmark, Race Course Circle, Baroda-390007 (Address of Head Office), unconditionally guarantee to pay NHAI upon first written demand and without any deduction any sum claimed by NHAI up to a maximum of Rupees 2.58 Crores Only (Indian Rupees Two Crores Fifty Eight Lacs Only) (the "Guaranteed Sum") subject to the conditions set out below.

2. The Guarantor unconditionally and irrevocably promises to pay on demand the Guaranteed Sum, without protest or demur whatsoever upon the receipt of a written demand from NHAI, which shall be final and conclusive as against the Guarantor requiring the Guarantor to make the payment to NHAI.

3. The Guarantor waives any requirement that NHAI demand any debt or payment from the Concessionaire before presenting it with a demand under this Guarantee.

4. NHAI shall notify the Guarantor of its demand for payment of the Guaranteed Sum without any deduction of whatsoever nature and without reference to any claim or counter claim or set off, in accordance with the Concession Agreement.

Such notification by NHAI shall be conclusive and binding on the Guarantor.

5. Upon encashment and appropriation of the whole or any portion of the Guaranteed Sum by NHAI in accordance with the Concession Agreement, the Guarantor shall be obliged to replenish the existing Guarantee or provide fresh guarantee of the Guaranteed Sum and the Concessionaire is deemed to have made the request for such fresh guarantee upon the execution and furnishing of this Guarantee in the first instance.



2/2

For ICICI Bank Limited

[Signature]
Authorized Signatory
9A Connaught Place, N. Delhi

MACHHUN JAIN
Manager J-133

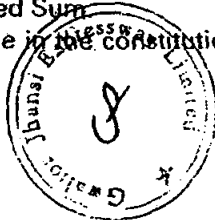
DHIRAJ TRIVEDI
Manager T-111



900504

BG Number: 0007BG00128506
Issue Date: 3/8/2006

- 59 6. No underlying dispute as between NHAI and the Concessionaire nor any
70 pending application for interim relief or arbitration proceedings or other legal
71 proceedings shall constitute any ground for prevention, delay or obstruction
72 for making payment to NHAI by the Guarantor and the existence of any
73 disputes or differences or claims in arbitration or otherwise shall not
74 constitute any ground for nonpayment on this Guarantee.
75
- 76 7. This guarantee is valid and effective from its date. This guarantee and the
77 Guarantor's obligations under it will terminate on the Commercial Operations
78 Date of the Project as advised to the Guarantor in writing by NHAI. However
79 the Guarantee shall be released earlier by NHAI to the Concessionaire, upon
80 contribution of the Equity (excluding) Equity Support, if any by the
81 Shareholders of the Concessionaire to the extent of 100% and upon the
82 Concessionaire having expended on the Project and paid out an aggregate
83 sum of not less than 20% of the Total Project cost as certified by the Statutory
84 Auditors of the Concessionaire but provided the Concessionaire is not in
85 breach of this Agreement or the Concession Agreement.
86 8. The Guarantor agrees that its obligation to pay any demand made by NHAI
87 before the termination of this Guarantee will continue until the amount
88 demanded has been paid in full.
89 9. This Guarantee shall be valid and effective up to 02.03.2007 (Date of validity of
90 the Bank Guarantee for Performance Security) for enabling NHAI to lodge a
91 claim for payment under the Guarantee till the date of expiry of the term of
92 the Guarantee. The Guarantor shall be obligated to make payment upon the
93 Guarantee forthwith on demand, if the claim is lodged within the claim validity
94 period and the obligation to pay is subject to normal limitation for payment of
95 claims upon a guarantee. Time is of essence for payment and in the event of
96 failure to make payment) Guarantor shall be obligated to pay compound
97 interest at 2% above the prime lending rate of the Guarantor institution,
98 compounding quarterly in the event of the Guarantor's failure to make
99 payment upon the Guarantee for any reason whatsoever. Payment of interest
00 as provided is no excuse for delayed payment or nonpayment of the
01 Guaranteed Sum.
02 10. No change in the constitution of the Concessionaire or of the Guarantor shall



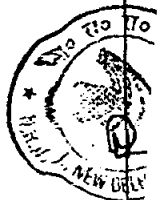
3/3

For ICICI Bank Limited

Madhur Jain
Authorised Signatory
9A, Conn. Place, N. Delhi

MADHUR JAIN
Manager J-133

DHIRAJ TRIVEDI
Manager T-111



BG Number: C007BG00128506

Issue Date: 3/8/2006

be a ground for release of the Guarantee and no variation in the concession agreement made post selection of the bidder, or post making of the bid, shall constitute a variation, which would, subject to the terms and conditions of this agreement, discharge the Guarantor. The Guarantor shall notwithstanding such change, be bound to make payment upon the Guarantee on demand.

11. The Guarantor agrees that no change, addition to or other modifications to the terms of the Concession Agreement or to any documents which have or may be made between NHAI and the Concessionaire will in any way release it from any liability under this Guarantee and that it waives any requirement for notice of any such change, addition or modification.

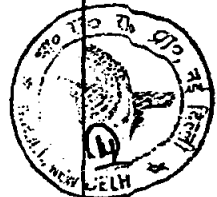
12. The Guarantor agrees that it will not assign its obligations under this Guarantee without the prior written consent of NHAI. NHAI will not unreasonably withhold its consent if the proposed assignee is of at least equal financial standing to the Guarantor and the assignee assumes in writing the obligations of the Guarantor under this Guarantee at the same time or before the assignment.

13. This Guarantee binds the Guarantor, its successors and permitted assigns. Not with standing anything contained herein above in the Guarantee;

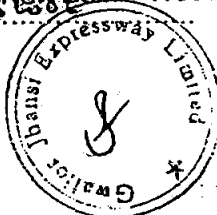
1. Our aggregate liability under the bank Guarantee on account of multiple invocation or replenishment of the existing Guarantee or fresh guarantees shall not exceed Rs. 2.58 Crores Only (Indian Rupees Two Crores Fifty Eight Lacs Only)

2. Our liability under this bank Guarantee shall be valid up to 02.03.2007

3. No rights shall be accrued unless we receive (if you serve upon us) a written claim or demand under this Guarantee on or before 02.03.2007 at ICICI Bank 9A, Connaught Place, New Delhi -110001.



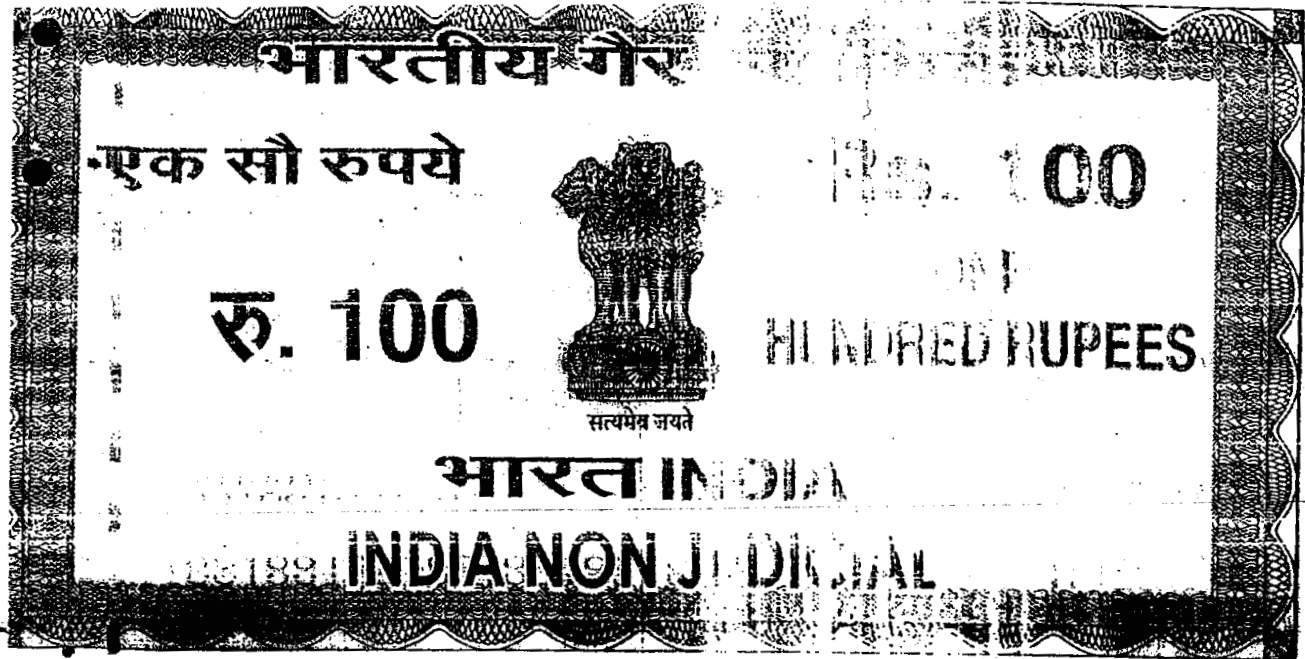
SEAL OF [THE BANK]
NAME OF [THE BANK] Bank Limited
SIGNATURE CIBD - First Floor
NAME 9-A, Connaught Place
TITLE NEW DELHI - 110001



For ICICI Bank Limited

[Signature]
Authorised Signatory
9A, Connaught Place, N. Delhi
MADHUR JAIN
Manager J-133

DHIRAJ TRIVEDI
Manager T-111



दिल्ली DELHI

B 373386

This Stamp Paper forms an integral part of Bank Guarantee No. 0007BG00128406, Dated
03.08.2006

For ICICI Bank Limited

Madhur Jain
Authorised Signatory
9A, Conn. Place, N. Delhi

MADHUR JAIN
Manager J-133

DHIRAJ TRIVEDI
Manager T-111



000507

BANK GUARANTEE

ICICI Bank Limited

(Incorporated in India)

Sr. No. 018645

ICICI Bank

BG Number: BG/13001/8406

Issue Date: 3/8/2006

SCHEDULE F

BANK GUARANTEE FOR PERFORMANCE SECURITY

(To be issued by a scheduled Bank in India) [Bidders should NOT provide the Performance Security with their Proposals. Only the Sponsor will be required to provide the Performance Security which must be in this form or in a similar form acceptable to NHAI.]

(To be issued by a Scheduled Bank based in India and having a net worth of at least Indian Rupees One Thousand Crores only and having a branch in the proximity of the Project or at any place acceptable to NHAI)

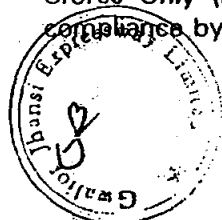
From: ICICI Bank Limited,
A-9, Phelps Building, Connaught Place,
New Delhi-110001
[Name of the Bank, and its Branch Address]

To: National Highway Authority of India,
G-50 G-9, Sector-10, Dwarka,
New-Delhi-110045A.

NHAI vide Letter no. NHA/PH/INHDP/BOT/ANNUITY/GM(N-II)/NS-I/2006/1111 dated 31st May 2006 has issued Letter of Acceptance to DSC - Apollo Consortium for (i) Design, Construction, Development, Finance, Operation and Maintenance of Km 16.08 to Km 96.127 on National Highway no. 75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh on BOT (Annuity) basis (the Project).

DSC Apollo Consortium through its a Special Purpose Vehicle Gwalior Jhansi Expressways Limited (the "Concessionaire"), will enter into a Concession Agreement for undertaking, inter alia, the Project and will perform and discharge all its obligations thereunder.

B. In order to perform and discharge all its obligations concerning the "Project" the Concessionaire is required to give National Highways Authority of India (NHAI) a guarantee by a recognized bank based in India in the sum of Rs. 9.50 Crores Only (Indian Rupees Nine Crores Fifty Lacs Only) as security for compliance by the concessionaire with its obligations under the Concession



For ICICI Bank Limited

Madhur Jain

1/1 MADHUR JAIN
Manager J-133

Authorized Signatory
Place, N. Delhi
DHIRAJ TRIVEDI
Manager T-111

30 508

BG Number: BG/11/6406

Issue Date: 3/3/2006

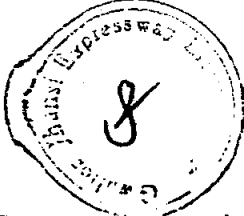
Agreement during the Construction period.

C. At the request of the successful bidder and/ or the Concessionaire the Guarantor has agreed to give NHAI the said guarantee on the terms set out herein.
GUARANTEE

1. We, ICICI Bank Ltd having our registered office at Landmark, Race Course Circle, Alkapuri, Baroda - 390007 and among others a branch office at 9A, Connaught Place, New Delhi - 110001 (the "Guarantor") with its registered office at Landmark, Race Course Circle, Baroda-390007 (Address of Head Office), unconditionally guarantee to pay NHAI upon first written demand and without any deduction any sum claimed by NHAI up to a maximum of Rupees 9.50 Crores Only (Indian Rupees Nine Crores Fifty Lacs Only) (the "Guaranteed Sum") subject to the conditions set out below.
2. The Guarantor unconditionally and irrevocably promises to pay on demand the Guaranteed Sum, without protest or demur whatsoever upon the receipt of a written demand from NHAI, which shall be final and conclusive as against the Guarantor requiring the Guarantor to make the payment to NHAI.
3. The Guarantor waives any requirement that NHAI demand any debt or payment from the Concessionaire before presenting it with a demand under this Guarantee.
4. NHAI shall notify the Guarantor of its demand for payment of the Guaranteed Sum without any deduction of whatsoever nature and without reference to any claim or counter claim or set off, in accordance with the Concession Agreement.

Such notification by NHAI shall be conclusive and binding on the Guarantor.

5. Upon encashment and appropriation of the whole or any portion of the Guaranteed Sum by NHAI in accordance with the Concession Agreement, the Guarantor shall be obliged to replenish the existing Guarantee or provide fresh guarantee of the Guaranteed Sum and the Concessionaire is deemed to have made the request for such fresh guarantee upon the execution and furnishing of this Guarantee in the first instance.
6. No underlying dispute as between NHAI and the Concessionaire nor any pending application for interim relief or arbitration proceedings or other legal



For ICICI Bank Limited

[Signature]

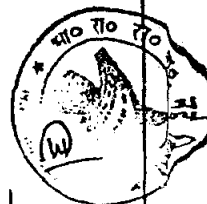
Authorised Signatory

9A, Conn. Place, N. Delhi

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MADHUR JAIN
Manager J-123

DHIRAJ TRIVEDI
Manager T-111



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BG Number: BG/2006/11/8406

Issue Date: 3/8/2006

- 59 proceedings shall constitute any ground for prevention, delay or obstruction
70 for making payment to NHAI by the Guarantor and the existence of any
71 disputes or differences or claims in arbitration or otherwise shall not
72 constitute any ground for nonpayment on this Guarantee.
- 73 7. This guarantee is valid and effective from its date. This guarantee and the
74 Guarantor's obligations under it will terminate on the Commercial Operations
75 Date of the Project as advised to the Guarantor in writing by NHAI. However
76 the Guarantee shall be released earlier by NHAI to the Concessionaire, upon
77 contribution of the Equity (excluding) Equity Support, if any by the
78 Shareholders of the Concessionaire to the extent of 100% and upon the
79 Concessionaire having expended on the Project and paid out an aggregate
80 sum of not less than 20% of the Total Project cost as certified by the Statutory
81 Auditors of the Concessionaire but provided the Concessionaire is not in
82 breach of this Agreement or the Concession Agreement.
- 83 8. The Guarantor agrees that its obligation to pay any demand made by NHAI
84 before the termination of this Guarantee will continue until the amount
85 demanded has been paid in full.
- 86 9. This Guarantee shall be valid and effective up to 02.03.2007 (Date of validity
87 of the Bank Guarantee for Performance Security) for enabling NHAI to lodge a
88 claim for payment under the Guarantee till the date of expiry of the term of
89 the Guarantee. The Guarantor shall be obligated to make payment upon the
90 Guarantee forthwith on demand, if the claim is lodged within the claim validity
91 period and the obligation to pay is subject to normal limitation for payment of
92 claims upon a guarantee. Time is of essence for payment and in the event of
93 failure to make payment, Guarantor shall be obligated to pay compound
94 interest at 2% above the prime lending rate of the Guarantor institution,
95 compounding quarterly in the event of the Guarantor's failure to make
96 payment upon the Guarantee for any reason whatsoever. Payment of interest
97 as provided is no excuse for delayed payment or nonpayment of the
98 Guaranteed Sum.
- 99 10. No change in the constitution of the Concessionaire or of the Guarantor shall
100 be a ground for release of the Guarantee and no variation in the concession
101 agreement made post selection of the bidder, or post making of the bid, shall
102 constitute a variation, which would, subject to the terms and conditions of this



For ICICI Bank Limited

Madhur Jain
Authorized Signatory

9A, Conn. Place, N. Delhi

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MADHUR JAIN
Manager J-133

OHIRAJ TRIVEDI
Manager T-111



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BG Number: BG/001/001128406
Issue Date: 3/3/2006

agreement, discharge the Guarantor. The Guarantor shall notwithstanding such change, be bound to make payment upon the Guarantee on demand.

11. The Guarantor agrees that no change, addition to or other modifications to the terms of the Concession Agreement or to any documents which have or may be made between NHAI and the Concessionaire will in any way release it from any liability under this Guarantee and that it waives any requirement for notice of any such change, addition or modification.
12. The Guarantor agrees that it will not assign its obligations under this Guarantee without the prior written consent of NHAI. NHAI will not unreasonably withhold its consent if the proposed assignee is of at least equal financial standing to the Guarantor and the assignee assumes in writing the obligations of the Guarantor under this Guarantee at the same time or before the assignment.
13. This Guarantee binds the Guarantor, its successors and permitted assigns.

Notwithstanding anything contained herein above in the Guarantee;

1. Our aggregate liability under the bank Guarantee on account of multiple invocation or replenishment of the existing Guarantee or fresh guarantees shall not exceed Rupees 9.50 Crores Only (Indian Rupees Nine Crores Fifty Lacs Only) (the "Guaranteed Sum")

2. Our liability under this bank Guarantee shall be valid up to 02.03.2007

3. No rights shall be accrued unless we receive (if you serve upon us) a written claim or demand under this Guarantee on or before 02.03.2007 at ICICI Bank 9A, Connaught Place, New Delhi - 110001.

SEAL OF [THE BANK]

NAME OF [THE BANK] ICICI Bank Limited

SIGNATURE GIBD - First Floor

NAME 9-A, Connaught Place

TITLE New Delhi - 110001

DATE 03.03.2006

For ICICI Bank Limited

[Signature]
Authorized Signatory
9A, Conn. Place, N. Delhi

MADHUR JAIN
Manager J-133

DHIRAJ TRIVEDI
Manager T-111





Form 1

Certificate of Incorporation

Corporate Identity Number : U45203DL2006PLC150616

2006 - 2007

I hereby certify that GWALIOR JHANSI EXPRESWAYS LIMITED is this day incorporated under the Companies Act, 1956 (No. 1 of 1956) and that the company is limited.

Given under my hand at Delhi this SIXTH day of JULY TWO THOUSAND SIX.

V.P. KATKAR

Asst. Registrar of Companies
National Capital Territory of
Delhi and Haryana



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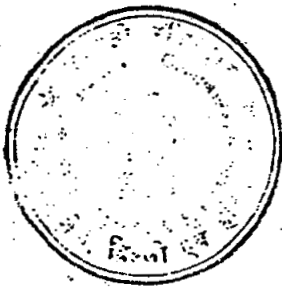
Certificate for Commencement of Business

Pursuant of Section 149(3) of the Companies Act, 1956

Corporate Identity Number : U45203DL2006PLC150616

I hereby certify that the GWALIOR JHANSI EXPRESWAYS LIMITED which was incorporated under the Companies Act, 1956(No. 1 of 1956) on the SIXTH day of JULY TWO THOUSAND SIX, and which has this day filed or duly verified declaration in the prescribed form that the conditions of the Section 149(2)(a) to (c) of the said act, have been complied with and is entitled to commence business.

Given under my hand at Delhi this TWENTY SEVENTH day of JULY TWO THOUSAND SIX.




V. K. GUPTA
Registrar of Companies
National Capital Territory of Delhi and
Haryana



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**Memorandum
&
Articles of
Association
of**

**GWALIOR JHANSI EXPRESWAYS
LIMITED**



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(THE COMPANIES ACT" 1956)

COMPANY LIMITED BY SHARES

MEMORANDUM OF ASSOCIATION

OF

GWALIOR JHANSI EXPRESWAYS LIMITED

- I The name of the Company is "GWALIOR JHANSI EXPRESWAYS LIMITED."
- II The Registered Office of the Company will, be situated in Delhi.
- III The objects for which the Company is established are :
 - (A) **THE MAIN OBJECT TO BE PURSUED BY THE COMPANY ON ITS INCORPORATION IS:**
 1. To design, construct, develop, operate, maintain, rehabilitate and upgrade the existing two lane road to four/Six lane from km 16.00 (Gwalior) to km 96.127 (Jhansi) on National Highway-75 (NH-75) in the States of Madhya Pradesh and Uttar Pradesh under North-South Corridor (NHDP Phase-II) plan of National Highway Authority of India on Build, Operate and Transfer (BOT) (Annuity) basis.
 - (B) **THE OBJECTS INCIDENTAL OR ANCILLARY TO THE ATTAINMENT OF THE MAIN OBJECTS ARE :**
 1. To build, erect, construct, operate on Build - Own - Transfer(BOT) or Build - Own - Lease Transfer (BOLT) basis or Build - Own - Operate - Transfer (BOOT) or on any other basis as per various rules and regulations prevalent at any moment, repair, execute, develop infrastructural projects including railways, roadways, bridges, dams, docks, harbours, canals or any kind of works for or on behalf of Government, semi - Government, NGO's or bodies corporate or individuals..
 2. To act whether in India or out side India, as Promoters, Land Developers, Estate Brokers, Estate Agents, buildings, masonry and general construction contractors.
 3. To build, erect, construct, alter, repair houses, buildings, shops, , offices, factories, or any land of the Company or any land, and construct, maintain, improve roads and other conveniences and to deal with and improve the property of the Company or any other property.

To purchase, otherwise to acquire, own, import all materials, substances, appliances, machines, containers and such other articles and apparatus and things capable of being used in the main business and to own, lease and otherwise acquire and use facilities of



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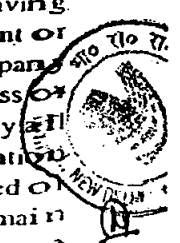
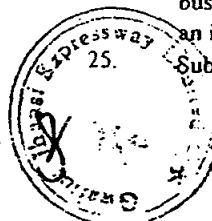
whatever kind as may be conducive to the effective working of the main business of the Company.

5. To acquire, build, alter, maintain, remove or replace and to work, manage and control any buildings, offices, shops, machinery, and conveniences, which may seem necessary to achieve the main object of the company.
6. To buy, repair, alter, improve, exchange, import all machinery, tools, utensils, appliances, apparatus, products, materials substance, articles and things capable of being used in the main business of this company.
7. To purchase, take on lease or tenancy or in exchange, hire, take options over or otherwise acquire any estate or interest whatsoever and to hold, develop, work, concessions, grants decrees, licences, privileges, claims, options, leases, property, right, or powers of any kinds which may appear to be necessary for the main business of the Company.
8. To pay for preliminary and pre-incorporation expenses of the Company.
9. To exchange, mortgage, royalty or tribute, grant licenses easements, options and other rights over and dispose of the whole or any part of the undertaking, property, assets, rights and effects of the Company for consideration as may be thought fit and in particular for stocks, shares, debentures whether fully or partly paid-up or securities of any other company having main objects whole or in part similar to the Company.
10. Subject to the provisions of the Section 314 of the Companies Act, to pay for any rights or property acquired by the Company and to remunerate and person, firm or body corporate rendering services to the Company either by cash payment or by allotment to him or them of shares or securities of the Company as paid up in full.
11. To advance money, in connection with the main business either with or without security and give credit to such persons (including Government) and upon such terms and conditions as the Company may think fit, to attain the main objects of the Company provided that the Company shall not carry on banking business within the meaning of Banking Regulation Act, 1949.
12. To undertake financial and commercial obligations, transactions and operations of all kinds, in connection with the main business of Company.
13. To guarantee the performance of any contract or obligations and the payment of money or dividends and interest on any stock, shares or securities of any company, corporation, firm or person in any case in which such guarantee may be considered directly or indirectly to further the main objects of the Company.
14. To guarantee the payment of money unsecured or secured or payable under or in respect of promissory notes, bonds, debentures, stocks, contracts, mortgages, or charges, obligations, instruments, securities of any company or of any authority, supreme, municipal, local or of any persons whether incorporated, or not incorporated, and generally to guarantee or become sureties for the performance of any contracts or obligations as may be necessary for the main business of the Company.
15. To subscribe for, acquire, hold shares and dispose share stocks, debentures, debenture stocks, bonds, mortgages, obligations, securities of any kind issued or guaranteed by any company (body corporate undertaking) of whatsoever nature and howsoever constituted and to subscribe for,



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- acquire, hold shares, debentures and debenture-stocks, and debenture-bonds, mortgages, obligations and other securities issued or guaranteed by any government, sovereign ruler, commissioners, trust, Municipal local or other Authority or body of whatsoever nature, whether in India or elsewhere as may be conducive to the main business of the Company.
16. Subject to the provisions of Section 77 of Companies Act, 1956 to invest other than investment in company's own shares any money of the Company not immediately required, in any investments, movable or immovable as may be deemed proper and to hold, or invest in shares or stock, in the company as may be necessary for the main business of the Company.
17. Subject to Section 58A, 292/293/295 and 372A of the Companies Act, 1956 and the Rules made thereunder and the directions issued by Reserve Bank of India, to receive money on deposit or loan and borrow money in such manner as the Company shall think fit, and in particular by the issue of debentures or debenture-stock (perpetual or otherwise) and to secure the payment of any money borrowed, raised or owing on the mortgage, charge or lien upon all or any of the property or assets of the Company (both present or future) including its uncalled capital and also by similar mortgage, charge or lien to secure and guarantee the performance by the Company, or any other such person on Company, of any obligation undertaken by the Company.
18. To draw, make, accept, endorse, negotiate, execute and issue bills of exchange, promissory notes, bills of lading, debentures and other negotiable or transferable instruments of securities of all types.
19. To apply for, purchase or otherwise acquire and protect, prolong and renew in any part of the world, any patents and patent rights, brevets, inventions, trade marks, designs, licenses, protections, and concessions conferring any exclusive or non-exclusive or limited right to their use or other information as to any invention, process or privileges which may seem capable of being used for any of the main objects business of the Company or the acquisition of which may seem calculated directly or indirectly, to benefit the company and to use, exercise, develop or grant licenses or privileges in respect of or the property, rights and information so acquired.
20. To spend money in experimenting upon and testing and improving or seeking to improve any patents, rights, inventions, discoveries, processes, or information of the Company or which the Company may acquire or propose to acquire.
21. To do all or any of the main business activities either as principals, agents, trustees, contractors or otherwise and either alone or in conjunction with others and either by or through agents, sub-contractors, trustees or otherwise.
22. To acquire and takeover all, or any part of the business property and liabilities of any person, firm or company carrying on or proposing to carry on main business which this Company is authorised to carry on or possess property, suitable for the main business of the Company.
23. To procure the registration or recognition of the company in or under the laws of any place outside India.
24. To form, incorporate or promote any company or companies whether in India or elsewhere having amongst its or their objects the acquisition of all or any of the assets or controls, management or development of the Company or any other such objects which in the opinion of the Company could or might directly or indirectly assist the Company in the management or its main business or the development of its properties or otherwise prove advantageous to the Company and to pay or any of the costs and expenses incurred in connection with any such promotion or incorporation and to remunerate any person or company in any manner it shall think fit, for services rendered or to be rendered in or about the formation or promotion of the Company or the conduct of its main business or in or about the promotion of any other such company in which the Company may have an interest.



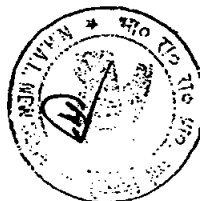
Subject to the provisions of Section 391 to 394 and 394A of the Companies Act, 1956, to

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amalgamate or to enter into partnership or any arrangement for sharing profits, union of interest, co. operation, joint venture or reciprocal rights with any person or persons of company or companies carrying on or engaged in the main business of the Company.

26. To enter into any arrangements and take any necessary or proper steps with Governments or with other authorities supreme, national, local, municipal or otherwise of any place in which the Company may have interests and to carry on any negotiations or operations for the purpose of directly or indirectly carrying out the main objects of the Company or effecting any modification in the constitution of the company or for furthering the interests of the members and to oppose any such steps taken by any other company, any firm or person which may be considered likely, directly or indirectly to prejudice the interest of the Company or its members and to assist in the promotion whether directly or indirectly to any legislation which may seem advantageous to the company and to obtain from such Government Authority and company any character, contracts, decrees, rights, grants, loans, privileges, or concessions which the company may think it desirable to obtain and carry out, exercise and comply with any such arrangements, charters, decrees, rights, privileges or concessions.
27. To adopt such means of making known the main business of the Company as may seem expedient and in particular by advertising in the press by circulars, by purchase and exhibition of works of art or interest, by publication of books and periodicals and by granting prizes, rewards and donation.
28. (a) To undertake and execute any trust, the undertaking of which may seem to the Company desirable and either gratuitously or otherwise and vest any real or personal property, rights or interests acquired by or belonging to the company in any person or Company on behalf of or for the benefit of the company and with or without any declared trust in favour of the Company.
- (b) To accept gifts including by way of awards/prizes from Govt. and semi. Govt. bodies and to give gifts and donations to create trusts for the welfare of employees, members, directors and/or their dependants, heirs and children for deserving objects for and such other persons; also to act as trustees.
29. To apply the assets of the Company in any way in or towards the establishment, maintenance or extension of any association, institution or fund in any way connected with any particular trade or business or with trade or commerce and particularly with the trade, including any association, institution or fund for the interests of masters, owners and employers against loss by bad debt, strike, combustion, fire, Accident or otherwise or for the benefit of any employee, workman or others at any time employed by the Company or any of its predecessors in business or their families or dependants and whether or not in common with other persons or classes of persons and in particular of friendly, co-operative and other society, reading rooms, libraries, educational and charitable institutions, dining and recreation rooms, churches, schools, and hospitals and to grant gratuities, pensions and allowances and to contribute to any funds raised by public or local subscription for any purpose.
30. To aid pecuniary or otherwise, any association, body or movement having for an object the solution, or settlement of industrial or labour problems or troubles or the promotion of industry or trade.
31. To subscribe or guarantee money for any national, charitable, benevolent, public general or useful



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object or for any exhibition subject to the provisions of Section 293/293A/293B of the Act.

32. Subject to the provisions of the Gift Tax Act, 1958 and the Statutory amendment, thereof, the Company has power to make and receive gifts either in cash or other such movable or immovable properties.
33. To establish and maintain or procure the establishment and maintenance of any contributory or non-contributory pension or superannuation funds for the benefits of and give, procure the giving of donations, gratuities, pensions, allowances or emoluments to any persons who are or were at any time in the employment or service of the Company or are allied to or associated with the Company or with any such subsidiary Company or who are or were at any time Directors of officers of the Company as aforesaid and the wives, widows, families and dependants of any such persons and also establish and subscribe to any institutions, associations, clubs or funds calculated to be for the benefit of or to advance the interest and well-being of the Company or of any such other Company as aforesaid and make payments to or towards the insurance of any such persons as aforesaid and do any of the matters aforesaid, either alone or in conjunction with any such other company as aforesaid.
34. To distribute among the members in specie or otherwise any property of the Company, or any proceeds of sale or disposal of any property of the Company, in the event of its winding-up but so that no distribution amounting to a reduction of capital be made except Subject to the provisions of sections 100 to 105 of the Companies Act, 1956.
35. To do all such other things as may be deemed incidental or conducive for the attainment of the main objects.

(C) THE OTHER OBJECTS ARE:

1. To carry on, in any mode, the business of store-keepers in all its branches and in particular to buy, sell and deal in goods, stores, consumable articles, chattels and effects of all kinds, both wholesale or retail.
2. To carry on business as importers and exporters of goods or merchandise of any description or to act as shippers, commission agents, advertising agents, travelling agents, transport agents, forwarding and clearing agents, brokers, estate, agents hardware merchants.
3. To carry on the business of manufacturers and dealers of automobile parts, accessories, ancillaries, stores and spares and to engineer, develop, design, assemble, manufacture, produce, import, and export, buy, sell and otherwise deal in Tractors, Cars, Motorbikes, Cycles, Mopeds, petroleum and petroleum products, glass and glass products, Industrial, mining, agricultural and such other machines and all types of tools, plants, equipments, instruments, appliances and hardware of all kinds, general fittings, accessories and appliances of all description made of metal, alloy, glass, synthetic and other such fibres, chemical and PVC compounds, plastics or any other such material related thereof.
4. To carry on the business of electrical engineers, air conditioner contractors, electricians, engineer contractors, manufacturers, contractors, supplier and dealers in electrical and other appliances, cable, wire, lines, dry-cells, accumulators, lamps and works and to generate, accumulate, distribute and supply electricity for the purpose of light, heat, motor power and for all other purpose for which electrical energy can be employed and to manufacture, and deal in all apparatuses and required for or capable of being used in connection with the generation, distribution, supply.



accumulation and employment of electricity, including in the term electricity all power that may be directly or indirectly derived therefrom or may be incidentally hereinafter discovered in dealing with electricity.

5. To manufacture and/or produce and/or otherwise engage in the manufacture or production of or dealing in electrical kilowatt hour meters, magnets, electromagnets, power cables, industrial jewels, ammeters, voltmeters and other types of measure instruments, electrical or non-electrical, die-castings, screws, nuts, and bolts, transformers of all types, circuit-breakers, punched card machines, computers and calculators and their accessories, hoists, elevators, trolleys and coaches, winches, power generators, magnetic separators, winders, air compressors, welders, fans of all types, switches and motors of all types, drills, electric grinders, air-conditioners, refrigerators, washing machines, television and wireless apparatus including radio receivers and transmitters, electronic instruments, videos, transistors, and allied items watches and clocks, cameras and any house-hold appliances and any equipment used in the generation, transmission and receiving of sound, light and electrical impulses, and components of parts thereof.
6. To carry on the business as mechanical engineers, machinists, fitters, millwrights, founders, wire drawers, tube metallurgist, saddlers, galvanizers, japanners, annealers, enamellers, electroplates and painters.
7. To carry on a general business of providing comparative information about the characteristics, interest or other attributes of individuals, communities, organisations, countries or other social units and of any articles or commodities or economic trends or persons whatsoever, to design, invest, prepare, own, make and lease, sell, or otherwise dispose of and generally to deal in and with computers, data processing machines, tapes, cards, memory equipment or any other equipment and materials of every kind and description useful in connection with the business, to license or otherwise authorise others to engage in the foregoing and to engage in general research and development in areas related to or involving the foregoing.
8. To grow, take on lease, acquire, develop, deal in plantations and to process in all aspects, timber wood, plywood and all kinds of wood and to make products where wood is a constituent part and to design, develop, fabricate any products involving the use of wood.
9. To produce, manufacture, use, or otherwise acquire, sell, distribute, deal in and dispose of alkalies and acids, gases, compounds, fertilizers, chemicals and chemical products of, every nature and description and compounds, intermediates, derivatives and by-products thereof and products to be made therefrom (hereinafter for convenience referred to generally as, chemicals and products) including specifically, but without limiting the generality of the foregoing, calcium carbide, calcium cyanamide, vat, solubilised vat, azoic salts, naphthols, all type of floatation reagents, wetting agents, insecticides and fumigants, plastics and resins, dyestuffs, explosives, catalytic agents, foods, direct colours, basic and rapid fast colours, pigments, drugs, biologicals, pharmaceuticals, serums, vitamin products, harmonics, sutures, ligatures, drugs for disease or disabilities, in men or animals, and products derived from phosphate mines, limestones, quarries, bauxite-mines, petroleum, natural gas and such other natural deposits useful or suitable in the manufacture of chemicals and chemical products as herein-above defined.
10. To manufacture, produce, refine, prepare, store, sell and to. Trade and deal in petroleum and all kinds of mineral oils, all products and byproducts thereof including wax, paraffin, soap, paint, varnish, lubricants, illuminants and butter substitutes, oil, cloth, candles, glycerin, stearin and in connection therewith to acquire, construct, repair, apart and use oil and such other refineries.

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buildings, mills, factories, oil wells, derricks, distilleries, ghanies, rotaries, expellers, mechanical or hydraulic press.

11. To Carry on the business of manufacturers and dealers, importers and exporters of natural and synthetic resins, moulding powders, adhesives and cements, oil paints, distempers, cellul paints, colours, varnishes, enamels, gold and silver leaf enamels, spirits, tobacco, cigars, snuff, soap, cosmetics, perfumes, medicines, drugs, dyes, fats, waxes, hides, skins and leather and such other allied articles thereof.
12. To Carry an development and research work and to manufacture process, import, export, buy, sell and deal in petroleum cake, calcined, coke and coaltar, anthracite coal and to draw out, manufacture and deal in coaltar, canlian products and such other by-products as may be possible and to utilise waste gases for industrial uses and purposes.
13. To, engineer, develop, design, assemble, manufacture, produce, import, export, buy, sell, operate, run, let on hire and otherwise deal in :
 - (a) all kinds of earthmoving and agricultural machines, petrol and diesel engines, tools, plants, tractors, equipments, spares, appliances, implements, accessories, mobile or otherwise.
 - (b) heavy vehicles and machines for agricultural and land reclamation, drainage, irrigation, water works, engineering, forest clearing, pumping and such other purposes thereof.
 - (c) spraying machines, vehicles and equipment whether mobile or other wise:
 - (d) mobile workshops machinery; and garage equipments for repair and service machinery;
 - (e) tubewells, pumps, floating or otherwise, motors and irrigation machinery;
 - (f) transportation equipments for movements of its products or stores, machines or personnel as general purpose freight carriers.
14. To undertake the business of distribution and application of chemicals, fertilizers and pesticides, aerial or otherwise and to maintain and run vehicles, aeroplanes and equipments for spraying and to run the said vehicles and aeroplanes for hire and as passenger carrying crafts also.
15. (a) To construct a cinematography theatre and such other buildings and works and conveniences, for purpose thereof said and to manage, maintain and carryon the said theatre and to let out such other buildings when so erected or constructed.
(b) To carryon the business as proprietors and managers of theatre (cinemas, picture places and concert halls) and to provide for the production, representation and performance (whether by mechanical means or otherwise) of operas, stage plays, operettas, burlesques, vaudevilles, revues, ballets, pantomimes, spectacular pieces, promenade, and such other concerts, musical and dramatic performances and entertainments of all types.
(c) To carryon the business of restaurant keepers, wine and spirit merchants, licensed victuallers, theatrical agents, box office keepers, dramatic and musical literature publishers and printers.

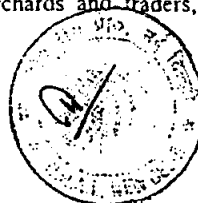


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(d) To manufacture films and such other appliances and machines in connection with mechanical reproduction or transmission of pictures, movements, music and sounds and to organise and conduct theatrical production and entertainment of all kinds.

(e) To enter into agreements with author or such other persons, for the dramatic or other rights of operas, plays, films, operas burlesque, vaudevilles, revues, ballet, pantomimes, spectacular pieces, musical compositions and other dramatic and musical performances and entertainments or for the representation thereof in India and elsewhere, as well as of foreign rights and to enter into engagements of all kinds with artists and such other persons related thereto.

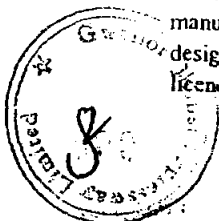
16. To carryon business as tourist's agents and contractors and to facilitate travelling and to provide for tourists and travelers and promote the provision of conveniences of all kinds in the ways of through tickets, circular tickets, sleeping cars or berths, reserved places, hotel and lodging accommodation, guides, safe deposits, inquiry bureaus, libraries, lavatories, reading room, baggage transport and otherwise.
17. To carryon business of hotel, café, restaurant tavern, beer house, restaurants rooms boarding and lodging house keepers, beer merchants, of aerated minerals and artificial surveyors, caterers for public amusement, coach cab, carriage and motorcar proprietors; livery stable and garabage - keepers, importers and brokers of food, live and dead stock; hairdressers, perfumers, chemists, proprietors of clubs, baths, dressing rooms, laundries, reading, writing and newspaper rooms, libraries, grounds and places of amusements and recreation, sports, entertainment and instruction of all kinds, tobacco and cigar merchants, agents for railways road, air and shipping companies and carriers, theatrical and opera-box office proprietors and general agents and to provide services and facilities of all kinds commercial basis that may be required for the tourist and entertainment industry.
18. To promote, establish acquire and run or otherwise carryon the business of any plastic or rubber industry or business of manufacture of materials for use in such industries or business such as wax, paper, bakelite, plywood, celluloid products, chemicals of all sorts and such other articles or things and similar or allied products, or process thereof.
19. To carryon business of processors, combers, spinners, weavers, knitters, manufacturers, dyers, bleachers, finishers laminators, balers and pressers of any fibrous or textile material whether an agricultural or animal or natural product or its bye-products or chemical or synthetic fibre and specially jute, hemp, silk, cotton, wool, mesta, nylon, terene, terylene, staple fibre or other synthetic fibre and to manufacture and produce from such raw material or textile material and to carryon the business of buyers, sellers and dealers of all such raw or processed or semi-processed material and to transact all manufacturing cutting and preparing, process and mercantile business that may be beneficial to the said business.
20. To carryon the business of transport, cartage and haulage contractors, garage proprietors, owners and charters of road vehicles, aircrafts, ships, tugs, barges, and boats of every description, lightermen, carriers of goods and passengers by road, rail, water or air, carmen, cartage contractors, stevedores, wharfingers, cargo superintendents, packers, haulers, warehousemen, store-keepers, and jobmasters.
21. To carryon the business of farming, horticulture, floriculture, sericulture, dairies, cultivators, of all kinds of foodgrains, seeds, fruits, proprietors of orchards and traders, exporters, dealers, and



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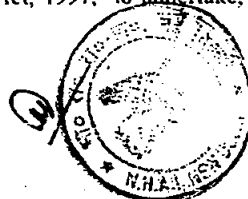
sellers of the products, of farming, dairy, horticulture, floriculture, sericulture and pisciculture and fishing and manufacturers of drinks, alcoholic or otherwise, and beverages produced from such products or otherwise, to carry on the business of cultivators, growers manufacturers, millers, grinders rollers, processors, cold stores canners and preservers and dealers of food grains and such other agricultural, dairy, horticultural and poultry products, and vegetables, herbs, medicinal flowers, drinks, fluids, and such other fresh and preservable products and to extract bye-products and derivatives whether edibles, pharmaceutical medicines or any other such kind or nature whatsoever and food preparations of every kind and description and generally the business or manufacture of and trading in preserved, dehydrated, canned or converted agricultural products, fruits and vegetables, foods, dairy and poultry products and articles and other derivatives of all kinds and descriptions and to set up and run machinery for processing and preserving the same.

22. To establish experimental farms and research stations anywhere in India for conducting experiments, tests and research for developing better qualities of foodgrains and agricultural products and for developing milk strain in cattle by cross breeding or otherwise and increasing eggs laying capacity in poultry and also for finding such other ways and means of improving other such agricultural crops, produce, seeds, fodder crops and cattle feed of all kinds.
23. To manufacture, process, chemically, electrically or by any other such means refine, extract, hydrolyze, manipulate, mix, deodorise, grind, bleach, hydrogenate, buy, sell, import, export, produce or otherwise deal in seeds and agricultural products, food products, dietetic products and preparations of patent drugs and proprietary articles of all kinds, whether basic or derived and in all forms and in particular protein foods of all kinds and all such other ingredients thereof.
24. To buy, sell, deal in shares and securities, foreign exchange, gold, silver cotton, jute hessian, oil, oils-seeds and hold them as permitted under the law, from time to time, in force.
25. To organise, run, maintain, operate, promote the business of interior decorators, furniture and carpet designers and manufacturers, boutiques, operators of fashion centers, fashion shows and to make, acquire, deal in any way in handicrafts objects of art, precious stones, jewellery, whether artificial or otherwise and articles wherein precious metals or precious stones may be used, in textile fabrics and to manufacture and deal in any products as are dealt in by boutiques, fashion shows and interior decorators.
26. To establish, provide, maintain and conduct research and such other laboratories, training colleges, schools and other institutions for the training, education and instruction of students and others who may desire to avail themselves of the same and to provide for the delivery and holdings of lectures, demonstrations, exhibitions, classes, meetings and conferences in connection therewith.
27. To be interested in promoting the undertaking the formation and establishment and to take, hold and dispose of shares in such organisations institutions businesses or companies, whether industrial, hoteliers, restaurants, agricultural trading, manufacturing or otherwise as may be considered to be conducive to the profit and interest of the company and also to acquire, promote, aid, foster, subsidise or acquire interests in any such industry or undertaking.
28. To acquire, from or sell to any person, firm or body corporate or, unincorporate whether in India or elsewhere technical and managerial information, know-how, processes, engineering - manufacturing, operating and commercial data plants, layouts and blue prints useful for the design, erection and operation of any plant or process of manufacture and to acquire and grant to licence other rights and benefits in the foregoing matters and things and to render any kind of



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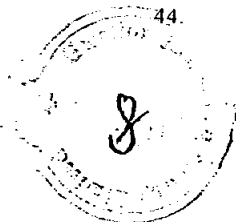
29. To carry on business as general commercial, colour, craft and graphers, photographers, engravers, die-makers, publishers of newspapers, books, magazines, art and musical productions, plan and chart printers, press and advertising agents, contractors, ink die and colour manufacturers, and dealers in containers and components and dealers in printing machines, type and all printers supplies, book binders and stationers and dealers in all kinds of supplies and equipments of mercantile and such other uses thereof.
30. To carry on the business of manufacturers or/and dealers in all kinds or classes of paper and pulp such as sulphate and sulphate wood, pulp, mechanical pulp and soda pulp and papers such as transparent, vellum, writing, printing, glazed, absorbent, news print, wrapping, tissue, cover, blotting, filter, bank or hand, badami, brown, buff or coloured lined, azure, laid, grass or water-proof, hand-made, parchment, drawing, craft, carbon, envelope, and box and straw duplex and triplex board and all kinds of articles in the manufacture of which any pulp, paper or boards is used and also to deal in or manufacture artificial leather of all varieties, grades and colour.
31. To acquire and hold share stocks, debentures, debenture stocks, bonds, obligations and securities issued or guaranteed by any Company constituted or carrying on business in the Republic of India or elsewhere any debentures, debenture stocks, bonds, obligations and securities issued or guaranteed by any government, sovereign ruler, commissioners, public body or authority, supreme, municipal, local or otherwise, whether at home or abroad, to acquire any such shares, stocks, debentures, debenture stocks obligations or securities by original subscription, tender, purchase, exchange or otherwise and subscribe for the same either conditionally, or otherwise and to guarantee the subscription thereof and of exercise and enforce all right and powers conferred by or incidental to the ownership thereof, to issue shares, debenture stocks, bonds, obligations and securities of all kinds and to frame, constitute and secure the same, as may seem expedient, with full power to make the same transferable by delivery or by instrument of transfer or otherwise and either perpetual or terminable and either redeemable or otherwise and to change or secure the same by trust deed or otherwise on the undertaking of the company, or upon any specific property and rights, present and future of the company (including if thought fit, uncalled capital) or otherwise, however, to export, import, buy, sell, barter, exchange, pledge, make advance upon, invest in and otherwise deal in gold, silver, bullion, stocks, shares, securities of all kinds and description.
32. To secure sound investments of foreign capital in Indian undertakings and enterprises and Indian Capital in foreign undertakings and enterprises.
33. To carry on the profession of consultants on management, employment, engineering industry and technical matters to industry and business and to act as employment agents.
34. To carry on the business as manufacturers of or dealers in glass products such as sheet and plate glass, optical glass, glass wool, laboratory ware and Thermometers.
35. To carry on the business as manufacturer of, agents or dealers in textiles and grains such as man-made fibres, cotton, silk, jute, wollen, synthetics, foodgrains and products thereof, oil s of all kinds, seeds, and pulses.
36. To undertake and transact all kinds of agency business and to carry on and promote any business, commercial or otherwise, under sound principles and/or to act as distributors, agents, underwriters, brokers, estate agents, middleman, contract man, representations and indenting agents on commissions allowance as may be deemed fit in all commodities, merchandise and other allied/articles and lines of business.
37. Subject to the approval of the Reserve Bank of India under Reserve Bank of India Act, 1934 as amended by Reserve Bank of India (Amendment) Act, 1997, to undertake, manage, finance or



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otherwise carry on, either individually or in association in any manner with any other person or Government authority, programme of Rural Development in India including any programme for promoting the social and economic welfare of, or the uplift of the public in any rural area and without prejudice to the generality of the foregoing to subscribe, donate, establish, provide, maintain, conduct, subsidise, undertake, associate with, carry on and promote studies, research, experimental work and application of technology, in any field of human endeavour, by establishing, endowing or assisting workshops, laboratories, schools, hospitals, first-aid centres and other technical scientific, agricultural, or any other institutions and bodies for the development of education, medicine, human welfare, agriculture, horticulture, animal husbandry, dairy products, cottage, small-scale and other industry and in order to implement any of the above mentioned objects or purposes, transfer without consideration or at such fair or concessional value as the Directors may think fit and divest the ownership of any property of the company to or in favour of any Public or Local Body or Central or State Government or any Public institution Trusts or Funds recognised or approved by the Central or State Government or established under any law for the time being in force.

38. To undertake, carry out, promote and sponsor or associate with or assist any activity for the promotion and growth of national economy and for discharging what the Directors may consider to be social and moral responsibilities of the company to the Public or any section of the Public, as also any activity which the Directors consider likely to promote national welfare or social, economic or moral uplift of the Public or any section of the public and in such manner and by such means as the Directors may think fit and the Directors may without prejudice to the generality of the foregoing undertake carry out, promote and sponsor any activity for publication of any books, literature, newspapers or for organising lectures or seminars likely to advance these objects or for giving merit awards, for giving scholarships, loans or any other assistance to deserving students or other scholars or persons to enable them to pursue studies or academic pursuits of their researches and for establishing, conducting or assisting any institution fund, trust, person or Government authority having any one of the aforesaid objects as one of the objects by giving donations or otherwise in any other manner, and the Directors may at their discretion, in order to implement any of the above mentioned objects or purposes, transfer without consideration or at such fair or concessional value as the Directors may think fit and divest the ownership of any property of the company to or in favour of any Public or Local Body or Authority or Central.
39. To install the Electric furnaces for melting steel scrap and for producing steel castings and for re-routing mild steel sections.
40. To manufacture steel castings of all kinds such as used for Textile Machine parts, Railways, Tramways, motor parts, Tractors, sugar Industry and Cement industry machinery parts.
41. To manufacture bolts, nuts, buckets, kerai, gate channels and to carry on the business fabrication of steel and its by products.
42. To weld steel tubes and boring of different steel and galvanising iron sections.
43. To manufacture, deal, stock and carry on the business of platemakers, wire drawers, tube manufactures, galvanisers, enamellers, electroplaters every type of steel, spring steel, forging quality steel and to act as japaners, re-rollers annalors and makers of steel and metal furnitures and manufactures of all types of malleable grey castings, ferrous and non ferrous steel.
44. To carry on the business of importing and exporting machinery, plants, tools, implement, metal goods, hardware and plumbing material and to sell, let out or otherwise deal in such imported



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goods or articles.

45. Subject to the approval of the Reserve Bank of India under Reserve Bank of India Act, 1934 as amended by Reserve Bank of India (Amendment Act) 1997 to carry on the business as financiers (not amounting to banking business within the meaning of Banking Regulation Act, 1949) by way of loaning, lending, and advancing money, to industrials, individuals, commercials and such other enterprises of all types.
46. To carry on the business of mechanical fitters, wire drawers, galvanizers, japaneers, annealers, enamellers and packing case makers.
47. To carry on the business of leasing and hire purchase and to acquire, to provide on lease or to be provided on hire purchase basis all types of industrial and offices; plants, equipments, machinery, vehicles buildings and real estate, required for manufacturing, processing, transportation and trading business and such other commercial and service business.
48. To build, construct, establish, own, purchase, sell, take on lease or exchange or otherwise acquire, hold, maintain and manage industrial, commercial or, residential buildings and plots, apartment houses, hotels, motels, hostels, restaurants, factory premises, god owns, godas, warehouses, flats, boarding houses, clubs, pleasure grounds and amusement parks, theatres, cinemas or other show houses, meeting or lecture halls, libraries, dharamshalas and sarais, health resorts and sanatoriums, gardens, swimming pools and baths, huts, Bazaars and markets meals and exhibition and to let, sublet, give on lease or otherwise to permit use, and occupation of the same for rent on hire charges and to provide for the tenants and occupiers thereof all or any of the conveniences commonly provided in residential, commercial and industrial quarters.
49. Subject to the approval of SEBI and RBI under RBI Act, 1934 and as amended by RBI (Amendment) Act, 1997 and other authorities where required to carry on all or any of the business in all the branches of Registrars to the issue, manager to the issue transfer agents, financial merchant bankers, advisors, portfolio management, consultants to the capital market, data procurement and recording centres, and development consultancy and to carry on all or any of the activities in all its branches of leasing finance and hire-purchase.)
50. To carry on the business of exporters and importers, buyers, sellers, processors and manufacturers of and general export and import both traditional and nontraditional items, industrial, mineral, agricultural commodities, handicrafts and household articles.

IV. The liability of the members is limited.

V. The Authorised Share Capital of the Company is Rs. 5,00,000 (Rupees Five Lacs Only) divided into 50,000 (Fifty Thousand Only) Equity Shares of Rs. 10/- (Rupees Ten Only) each.



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We, the several, persons whose names and addresses are subscribed below are desirous of being formed into a Company in pursuance of this Memorandum of Association, and we respectively agree to take the number of shares in Capital of the Company, set opposite our respective names :

S. No.	Name, Description, Occupation and addresses of subscribers	Number and type of equity shares	Signatures of Subscribers	Names, Addresses description and signature of witnesses
1.	Narinder Singh Narula S/o Late Shri D. S. Narula Occupation: Business R/o: 3, Golf Links, New Delhi-110003	500 (Five Hundred Equity Shares)	-sd- Narinder Singh Narula	I witness the signatures of the subscribers to the Memorandum of Association of the Company -sd- Vineet K Chaudhary (Practising Company Secretary) CP No. 4548
2.	DS Constructions Limited Regd. Off. C-66, South Extension, Part-II, New Delhi-110049 Through Power of Attorney Holder Narinder Singh Narula S/o Late Shri D. S. Narula Occupation: Business R/o: 3, Golf Links, New Delhi-110003	47,000 (Forty Seven Thousand Equity Shares)	-sd- Narinder Singh Narula	
3.	Virender Singh Narula S/o Late Shri D. S. Narula Occupation: Business R/o: 3, Golf Links, New Delhi-110003	500 (Five Hundred Equity Shares)	-sd- Virender Singh Narula	
4.	Harvinder Singh Kohli S/o Late Shri Prahlad Singh Kohli Occupation: Service R/o: Apartment No.10, 1 Link Road, Jangpura, New Delhi-110014	500 (Five Hundred Equity Shares)	-sd- Harvinder Singh Kohli	
5.	Kinnigoli Laxman Malliya S/o Shri K. Dasu Malliya Occupation: Business R/o: 204, IC-3, Essel Towers, M.G. Road, Gurgaon-122002	500 (Five Hundred Equity Shares)	-sd- K.L. Malliya	
6.	Surjeet Singh Dhawan S/o Shri R.S. Dhawan Occupation: Service R/o: Pkt FG-1/69C, LIG Flats, Vikas Puri, New Delhi-110018	500 (Five Hundred Equity Shares)	-sd- Surjeet Singh Dhawan	
7.	Om Prakash S/o Late Sh. Remal Dass Occupation: Business R/o C-5/17, Model Town-3, Delhi-110 009	500 (Five Hundred Equity Shares)	-sd- Om Prakash	
		50,000 (Fifty Thousand Equity Shares)		

Place: New Delhi

Dated: 03/07/2006



30052

(THE COMPANIES ACT, 1956)
(COMPANY LIMITED BY SHARES)

Articles of Association
OF
GWALIOR JHANSI EXPRESWAYS LIMITED

PRELIMINARY

1 Unless the context otherwise requires, words or expressions contained in these Articles shall bear the same meaning as in the Act. The marginal notes hereto shall not affect the construction hereto and in these presents, unless there be something in the subject or context inconsistent therewith. Interpretation

"The Act" means The Companies Act, 1956.

"These Articles" means the Articles of Association as originally framed or as altered by Special Resolution, from time to time.

"Beneficial Owner" shall mean the beneficial owner as defined as in the clause (a) of the Sub-section (1) of Section 2 of the Depositories Act, 1996.

The "Board" means Board of Directors of the Company.

"The Company" means "GWALIOR JHANSI EXPRESWAYS LIMITED".

"The Directors" means the Board of Directors of the Company for the time being.

"The Office" means the Registered Office of the Company for the time being.

"The Register" means the Register of Members to be kept pursuant to Section 150 of the Act.

"Depository" shall mean a Depository as defined under clause (e) of Sub-section (1) of Section 2 of the Depositories Act, 1996.

"Dividend" includes any Interim Dividend.

"Month" means Calendar month.

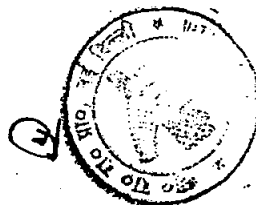
"Proxy" includes Attorney duly constituted under a power of Attorney.

"Seal" means the Common Seal of the Company.

"Share with Differential Rights" means that is issued with differential rights in accordance.

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"In Writing" and "Writing" shall include printing, lithography and other modes of representing or reproducing words in a visible form, Words imparting the singular number also include the plural number and vice-versa.

Words importing the masculine gender also include the feminine gender.

Words imparting persons include corporations.

Table "A" not to 2.
apply

Save as provided herein, the Regulation contained in Table "A" in Schedule I of the Act shall not apply to Company.

SHARES

Share Capital

3.

The Authorised Share Capital of the Company shall be such as given in the Clause V of the Memorandum of Association or altered, from time to time, thereat payable in the manner as may be determined by the Directors, with power to increase, reduce, sub-divide or to repay the same or to divide the same into several classes and to attach thereto any rights and to consolidate or subdivide or re-organise the shares and subject the provisions of the Act, to vary such rights as may be determined in accordance with the regulations of the Company. The paid up capital of the company will be minimum Rs. 5,00,000 (Rs Five Lacs).

Redeemable
preference shares

4.

The Company shall have power to issue Preference Shares carrying right of redemption out of profits which would otherwise be available for dividend, or out of the proceeds of a fresh issue of shares made for the purpose of such redemption, or liable to be redeemed at the option of the Company, and the Board may subject to the provisions of Section 80 of the Act, exercise such power in such manner as it think fit.

Allotment
Shares

of 5.

Subject to the provisions of these Articles, the shares shall be under the control of the board of Directors who may at or otherwise dispose off the same on such terms and conditions, and at such time as the Directors think fit and with power to issue any shares as fully paid-up in consideration of services rendered to the Company in its formation or otherwise, provided that where the Directors decide to increase the issued capital of the Company by the issue of further shares. The provisions of Section 81 of the Act will be complied with, provided further that the option or right to call of shares shall not be given to any person except with the sanction of the Company in general meeting.

Issue of shares at a 6.
discount

Subject to the provisions of the Act, it shall be lawful for the Company to issue at a discount, shares of a class already issued.

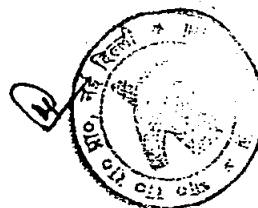


7. Subject to Section 187 C of the Act, the company shall be entitled to treat the registered holder of any share as the absolute owner thereof and accordingly shall not, except as ordered by a Court of competent jurisdiction or as by law required, be bound to recognise any trust, benami or equitable or other claim to or interest in such shares or any fractional part of a share whether or not it shall have express or other notice thereof.
- Trusts not recognised

CERTIFICATE

8. The certificate of title to shares shall be issued under the Seal of the Company. Certificate
9. Every member shall be entitled free of charge to certificates in marketable lot for all the shares of each class registered in his name or, if any member so wishes, to several certificate each for one or more of such shares. Unless the Conditions of issue of any shares otherwise provide, the Company shall either within three months after the date of allotment and on surrender to the Company of its letter making the allotment or of its fractional coupons of requisite value (save in the case of issue against letters of acceptance or of renunciation or in case of issue of bonus shares) or within one month of receipt of the application for registration of the transfer, sub-division, consolidation, renewal or exchange of any of its shares, as the case may be, complete, and have ready for delivery the certificates of such shares. Every certificate of shares, shall specify the name of the person in whose favour the certificate is issued, the shares to which it relates and the amount paid up thereon. Particulars of every certificate issued shall be entered in the register maintained in the form set out in the Companies (Issue of Share Certificates) Rules, 1960. Member's right to certificate
10. (1) If any certificate of any share or shares be surrendered to the Company for sub-division or consolidation or if any certificate be defaced, torn or old, decrepit, worn-out or where the pages on As to issue of new certificate

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the reverse for recording transfer have been duly utilised, then upon surrender thereof to the Company, the Board, may order the same to be cancelled and may issue a new certificate in lieu thereof, and if any certificate be lost or destroyed, then upon proof thereof to the satisfaction of the Board, and on such indemnity as the Board thinks fit being given a new certificate in lieu thereof, shall be given to party entitled to the shares to which such lost or destroyed certificate relate. Where a new certificate has been issued as aforesaid, it shall state on the face of it and against the stub or counterfoil that it is issued in lieu of a share certificate or is a duplicate issued for the one so replaced and, in the case certificate issued in place of one which has been lost or destroyed, the word "duplicate" shall be stamped or punched in bold letters across the face thereof. For every certificate issued under this Article, there shall be paid to the Company such out of pocket expenses incurred by the Company in investigating evidence as the Board may determine.

(2) No fee shall be charged for sub-division and consolidation of share and debenture certificates and for sub-division of letters of allotment and split, consolidation, renewal and pucca transfer receipts into denominations, corresponding to the market units of trading, for sub-division of renounceable letters of rights; for issue of new certificate in replacement of those which are old, decrepit or worn out, or where the pages on the reverse for recording transfers have been fully utilised. Provided that the Company may charge such fees as may be agreed by it with the Stock Exchange with which its shares may be enlisted for the time being for issue of new certificates in replacement of those that are torn, defaced, lost or destroyed, and for sub-division and consolidation of share and debenture certificates and for sub-division of letter of allotment and split, consolidation, renewal and pucca transfer receipts into denominations other than those fixed for the market units of trading.

10A

1. Notwithstanding anything contained in these Articles, the Company shall be entitled to dematerialise its securities and to offer securities in a dematerialised form pursuant to the Depositories Act, 1996.

Dematerialisation of Securities

2. Every person subscribing to securities offered by the Company shall have the option to receive security certificate or to hold the securities with a depository. Such a person who is the beneficial owner of the securities can at any time opt out of a depository, if permitted by the law, in respect of any security in the manner provided by the Depositories Act, and the Company shall, in the manner and within the time prescribed, issue to the beneficial owner the required Certificate of Securities.

Options for Investors

If a person opts to hold his security with a depository, the Company shall intimate such depository the details of allotment of the security, and on receipt of the information, the depository shall enter in its record the name of the allottee as the beneficial owner of the security.



3. All the securities held by a depository shall be dematerialised and be in fungible form. Nothing contained in Sections 153, 153A, 187B, 187C and 372A of the Act shall apply to a depository in respect of the securities held by it on behalf of the beneficial owners.

Securities in
Depositories to
be in the
fungible form.

4. (a) Notwithstanding anything to the contrary contained in the Act or these Articles, a depository shall be deemed to be the registered owner for the purpose of effecting transfer of ownership of security on behalf of the beneficial owner.

b) Save as otherwise provided in (a) above, the depository as the registered owner of the securities shall not have any voting rights or any other rights in respect of the securities held by it.

Rights of
depositories
and beneficial
owners

(c) Every person holding securities of the Company and whose name is entered as the beneficial owner in the records of the depository shall be deemed to be a member of the Company. The beneficial owner of securities shall be entitled to all the rights and benefits and be subject to all the liabilities in respect of his securities, which are held by a depository.

5. Notwithstanding anything in the Act or these Articles to the contrary, where securities are held in a depository, the record of the beneficial ownership may be served by such depository on the Company by means of electronic mode or by delivery of floppies or discs

6. Nothing contained in Section 108 of the Act or these Articles shall apply to transfer of securities effected by a transferor and transferee both of whom are entered as beneficial owners in the records of a depository.

7. Notwithstanding anything in the Act or these Articles, where securities are dealt with by a depository, the Company shall intimate the details thereof to the depository immediately on allotment of such securities.

8. Nothing contained in the Act or these Articles regarding the necessity of having distinctive numbers for securities issued by the Company shall apply to securities held with a depository.

9. The Register and Index of beneficial owners maintained by a depository under the Depositories Act, 1996, shall be deemed to be Register and Index of Members and Security holders for the purposes of these Articles.

JOINT-HOLDERS OF SHARES

11 Where two or more persons are registered as the holders of any share they shall be deemed to hold the same as joint-tenants with benefit of survivorship subject to the following provisions and to the other provisions of these Articles relating to joint-holders:

Fee on sub-division
of shares issue of
new certificates etc.

(a) The Company shall not be bound to register more than Three persons as the joint-holder of any share.

Maximum number

(b) The joint-holders of a share shall be liable severally as well as jointly in respect of all payments which ought to be made in respect of such shares.

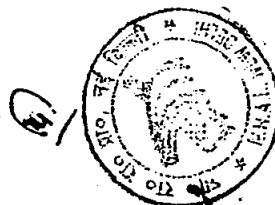
Liability several as
well as joint

(c) On the death of anyone of such joint-holders the survivor or survivors shall be the only person recognised by the Company as having any title to or interest in such share but the Board may require such evidence of death as it may deem fit.

Survivors of joint-
holders only
recognised

(d) Only the person whose name stands first in the Register as one of the joint-holders of any share shall be entitled to delivery of the certificate relating to such share.

Delivery of
certificates



CALLS

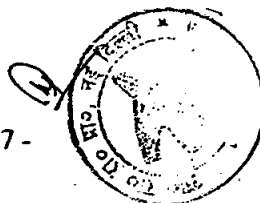
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| Calls | 12 | The Directors may, from time to time, subject to the terms on which any shares, may have been issued, make such calls as they think fit upon the members in respect of all moneys unpaid on the shares held by them respectively, and not by the conditions of allotment thereto made payable at fixed times, and each member shall pay the amount of every call so made on him to the persons and at the times and places appointed by the Directors. A call may be made payable by instalments. |
| When call deemed to have been made | 13 | That the option or right to call of shares shall not be given to any person except with the sanction of the Company in general meeting. |
| Notice to call | 14 | Not less than 30 (Thirty) days notice of any call shall be given specifying the time and place of payment and to whom such call shall be paid. |
| Amount payable | 15 | If by the terms of issue of any share or otherwise, the whole or part of the amount of issue price thereof is made payable at any fixed time or by instalments at fixed times, every such amount of issue price or instalment thereof shall be payable as if it were a call duly made by the Directors and of which due notice had been given and all the provisions herein contained in respect of calls shall apply to such amount or issue price or instalments accordingly. |
| | 16 | If the sum payable in respect of any call or instalment be not paid on or before the day appointed for the payment thereof, the holder for the time being of the share in respect of which the call shall have been made or the instalment shall be due, shall pay interest for the same at the rate of 12 (Twelve) per cent per annum, from the day appointed for the payment thereof to the actual payment or at such other rate as the Directors may determine but they shall have power to waive the payment thereof wholly or in part. |
| Evidence in actions by Company against shareholders | 17 | On the trial or hearing of any action or suit brought by the Company against any member or his representative to recover any debt or money claimed to be due to the Company in respect of his shares, it shall be sufficient to prove that the name of the defendant is, or was, when the claim arose, on the Register of the Company as a holder, or one of the holders of the number of shares in respect of which such claim is made, that the resolution making the call is duly recorded in the minute book and that the amount claimed is not entered as paid in the books of the Company, and it shall not be necessary to prove the appointment of the Directors who made any call nor that a quorum of Directors was present at the meeting at which any call was made nor that such meeting was duly convened or constituted, nor any other matter but the proof of the matters aforesaid shall be conclusive evidence of the debt. |
| Payment of calls in advance | 18 | The Board may, if it thinks fit, receive from any member willing to advance the same, all or any part of the money due upon the shares held by him beyond the sums actually called for, and upon the money so paid or satisfied in advance, or so much thereof as, from time to time, exceeds the amount of call then made upon the share in respect of which such advance has been made, the Company may pay interest at such rate not exceeding, unless the Company in general meeting shall otherwise direct, 6 (Six) per cent per annum on the member paying such sum as advance and the Board agree upon. Money so paid in excess of the amount of call shall not rank for dividends or confer a right to participate in profits. The Board may at any time repay the amount so advanced upon giving such member not less than three months' notice in writing. |



30 0533

FORFEITURE AND LIEN

- 19 If any member fails to pay any call or instalment on or before the day appointed for the payment of the same, the Directors may at any time thereafter, during such time as the call or instalment remains unpaid, serve notice on such member requiring him to pay the same together with any interest that may have accrued and expenses, that may have been incurred by the Company by reasons of such non-payment. Notice may be given for calls or instalment not paid
- 20 The notice shall name a day (not being less than 30 (Thirty) days from the date of the notice) and a place or places on and at which such call or instalment and such interest and expenses as aforesaid are to be paid. The notice shall also state that in the event of nonpayment at or before the time, and at the place or places appointed, the shares in respect of which such call was made or instalment is payable will be liable to be forfeited. Form of notice
- 21 If the requirement of any such notice as aforesaid be not complied with, any shares in respect of which such notice has been given may, at any time thereafter before payment of all calls or instalments, interest and expenses due in respect thereof, be forfeited by a resolution of the Directors to that effect. Such forfeiture shall include all dividends declared in respect of the forfeited share not actually paid before the forfeiture. Neither the receipt by the Company of a portion of any money which shall, from time to time, be due from any member of the Company in respect of his shares, either by way of principal or interest, nor any indulgency granted by the Company in respect of the payment of any such money shall preclude the Company from thereafter proceeding to enforce a forfeiture of such share as herein provided. If notice not complied with, shares may be forfeited.
- 22 When any shares shall have been so forfeited, notice of the forfeiture shall be given to the member in whose name it stood immediately prior to the forfeiture, and an entry of the forfeiture with the date thereof, shall forthwith be made in the Register but no forfeiture shall be in any manner invalidated by any omission or neglect to give such notice or to make such entry as aforesaid. Notice of forfeiture
- 23 Any share so forfeited shall be deemed to be the property of the Company, and the Directors may sell, re-allot or otherwise dispose off the same in such manner as they think fit. Forfeited shares to become property of the Company.
- 24 The Directors may, at any time before any share so forfeited shall be sold, re-allotted or otherwise disposed off, annul the forfeiture thereof upon such conditions as they think fit. Power to annul forfeiture
- 25 Any member whose shares have been forfeited shall notwithstanding such forfeiture, be liable to pay shall forthwith pay to the Company all calls, instalments, interest and expenses, owing upon or in respect of shares, at the time of all instalments interest on the forfeiture together with interest thereupon, from the time of the forfeiture until payment, at 12 (Twelve) per cent per annum or such other rate as the Directors may determine and the Directors may enforce the payment thereof without any deduction of allowance for the value of shares at the time of forfeiture but shall not be under any obligation to do so. Arrears to be paid notwithstanding forfeiture
- 26 The forfeiture of a share shall involve the extinction of all interest in and also of all claims and demands against the Company in respect of the share, and all other rights incidental to the share except only such of those rights as by these Articles are expressly saved. Effect of forfeiture



Evidence of Forfeiture

27

A duly verified declaration in writing that the declarant is a Director of the Company and that certain shares in the Company have been duly forfeited on a date stated in the declaration shall be conclusive evidence of the facts therein stated as against all persons claiming to be entitled to the shares and the receipt of the Company for the consideration, if any, given for the shares on the sale or disposition thereof, shall constitute a written title to such shares.

Company's Lien on Shares

28

That fully paid shares shall be free from all lien, and that in the case of partly paid shares, the Company's lien shall be restricted to money called or payable at a fixed time in respect of such shares.

Intention as to enforcing lien by sale

28A

That a common form of transfer shall be used.

29.

For the purpose of enforcing such lien, the Directors may sell the shares subject thereto in such manner as they think fit, but no sale shall be made until such period as aforesaid shall have elapsed and until notice in writing of the intention to sell shall have been served on such member, his committee, curator bonis or other person recognised by the Company as entitled to represent such member and default shall have been made by him or them in the payment of the sum payable as aforesaid for thirty days after such notice. The net proceeds of any such sale shall be applied in or towards satisfaction of such part of the amount in respect of which the lien exists as is presently payable by such member, and the residual (if any) be paid to such member, his executors, administrators or other representatives or persons so recognised as aforesaid.

Application of proceeds of sale

Validity of Shares

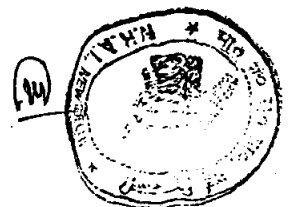
30.

Upon any sale after forfeiture or for enforcing a lien in purported exercise of the powers by these presents given, the Directors may appoint some person to execute an instrument of transfer of the shares sold and cause the purchaser's name to be entered in the register in respect of the shares sold, and after his name has been entered in the Register in respect of such shares his title to such shares shall not be affected by any irregularity or invalidity in the proceedings in reference to such forfeiture, sale or disposition, not impeached by any person and the remedy of any person aggrieved by the sale shall be in damages only and against the Company exclusively.

Power to issue Certificate

31.

Where any shares under the powers in that behalf herein contained are sold by the Directors and the certificate thereof has not been delivered to the Company by the former holders of the said shares the Directors may issue new certificate in lieu of certificate not so delivered.



TRANSFER AND TRANSMISSION OF SHARES

32. Subject to the provisions of the Act, no transfer of shares shall be registered unless a proper instrument of transfer duly stamped and executed by or on behalf of the transferor or transferee has been delivered to the Company together with the certificate or certificates of the shares, or if no such certificate is in existence along with the letter of allotment of such shares. The instrument of transfer of any shares shall be signed both by or on behalf of the transferor and by or on the behalf of transferee and the transferor shall be deemed to remain the holder of such share until the name of the transferee is entered in the register in respect thereof. Execution of transfer, etc.
33. Application for the registration of the transfer of a share may be made either by the transferor or the transferee provided that, where such application is made by the transferor, no registration shall in the case of partly paid shares be effected unless the Company gives notice of the application to the transferee in the manners prescribed by the Act. And, subject to the provisions of Articles hereof, the company shall, unless objection is made by the transferee within two weeks from the date of receipt of the notice, enter in the Register the name of the transferee in the same manner and subject to the same conditions as if the application for registration was made by the transferee. Application transfer for
34. Before registering any transfer tendered for registration, the Company may, if it so thinks fit, give notice by letter posted in the ordinary course to the registered holder that such transfer deed has been lodged and that, unless objection is taken, the transfer will be registered and if such registered holder fails to lodge an objection in writing at the office of the Company within two weeks from the posting of such notice to him he shall be deemed to have admitted the validity of the said transfer. Notice of transfer to registered holder
35. The Company shall keep a "Register of Transfer" and therein shall be fairly and distinctly entered particulars of every transfer of any share. Register of transfer
36. Subject to the provisions of Section 111 of the Act, the Board of Directors, may within one month from the date on which the instrument of transfer was delivered to the Company, refuse to register any transfer of a share upon which the Company has a lien and, in the case of a share not fully paid up, may refuse to register a transfer to a transferee to whom the Board does not approve. In what case to decline to register transfer of shares

Provided that the registration of a transfer of share shall not be refused on the ground of the transferor being either alone or jointly with any other person or persons indebted to the Company or any account whatsoever.

8



No transfer to person of unsound mind.

37.

(1) No transfer shall be made to a minor or a person of unsound mind.

No fees for Registration of transfer, etc.

(2) No fee shall be charged for registration of transfer, probate, letter of administration, certificate of death or marriage, Power of Attorney or similar other instruments.

When instrument of transfer to be retained

38.

All instruments of transfer duly approved shall be retained by the Company and in case of refusal, instruments of transfer shall be returned to the person who lodges the transfer deeds.

Notice of refusal to register transfer

39.

If the Directors refuse to register the transfer of any shares, the Company shall, within one month from the date on which the instrument of transfer was lodged with the Company or intimation given, send to the transferor and the transferee or the person giving intimation of such transfer, notice of such refusal.

Power to close transfer books and register

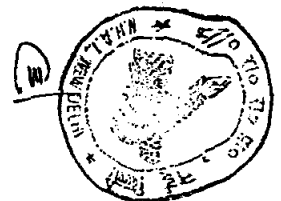
40.

On giving seven days' notice by advertisement in a newspaper circulating in a district in which the registered office of the Company is situated, the Register of Members may be closed during such time as the directors think fit not exceeding in the whole forty - five days in each year but not exceeding thirty days at a time.

Transmission of registered shares

41.

The executors or administrators or the holder of a succession certificate in respect of shares of a deceased member (not being one of several joint-holders) shall be the only person whom the Company shall recognise as having any title to the shares registered in the name of such member and, in case of the death of anyone or more of the joint-holders of any registered shares the survivors shall be only persons recognised by the Company as having any title to or interest in such share but nothing herein contained shall be taken to release the estate of a deceased joint holder from any liability on shares held by him jointly with any other person. Before recognising any legal representative or heir or a person otherwise claiming title to the shares the Company may require him to obtain a grant of probate or letters of administration or succession certificate, or other legal representation, as the case may be from a competent Court, provided nevertheless that in any case where the Board in its absolute discretion think fit it shall be lawful for the Board to dispense with production of probate or letters of administration or a succession certificate or such other legal representation upon such terms as to indemnity or otherwise as the Board may consider desirable.



42. Any person becoming entitled to or to transfer shares in consequence of the death or insolvency of any member upon producing such evidence that he sustains the character in respect of which he processes to act under this article, or of his title as the Directors think sufficient, may with the consent of the Directors (which they shall not be under any obligation to give), be registered as a member in respect of such shares or may subject to the regulations as to transfer hereinbefore contained, transfer such shares. This article is hereinafter referred to as "The transmission Article" Subject to any other provisions of these Articles if the person so becoming entitled to shares under this or the last preceeding Article shall elect to be registered as a member in respect of the share himself he shall deliver or send to the company a notice in writing signed by him stating that he so elects. If he shall elect to transfer to some other person he shall execute an instrument of transfer in accordance with the provisions of these articles relating to transfer of shares. All the limitations, restrictions and provisions of these articles relating to the rights to transfer and the registration of transfers of shares shall be applicable to any such notice of transfer as aforesaid.
- As to transfer of shares of deceased or insolvent members.
- Transmission Article
- Notice of election to be registered
- All Rights of executors and trustees.
43. Subject to any other provisions of these Articles if the Directors in their sole discretion are satisfied in regard thereof, a person becoming entitled to a share in consequences of the death or insolvency of a member may receive and give a discharge for any dividends or other money payable in respect of the share.
- Rights of executors and trustee.
44. The instrument of transfer shall be in writing and all the provision of Section 108 of the Companies Act, 1956 and of any statutory modification thereof for the time being shall be duly complied with in respect of all transfer of shares and the registration thereof.
- Provisions of Article relating to transfer applicable

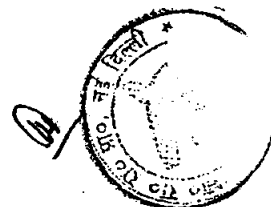
SHARE WARRANTS

45. Subject to the provisions of Section 114 and 115 of the Act and subject to any directions which may be given by the Company in General Meeting, the Board may issue share-warrants in such manner and on such terms and conditions as the Board may deem fit. In case of such issue, Regulations 40 to 43 of Table "A" in Schedule I to the Act, shall apply.
- Power to issue Share warrants.

STOCKS

46. The Company may exercise the power to conversion of its shares into stock and in that case Regulations 37 to 39 to table "A" in Schedule I to the Act shall apply.
- Stocks

J



Power to subdivide
and consolidate

47.

ALTERATION OF CAPITAL

The Company may, by ordinary resolution, from time to time, alter the condition of the Memorandum of Association as follows :-

- (a) Increase the Share Capital by such amount to be divided into shares of such amount as may be specified in the resolution.
- (b) Consolidate and divide all or any of its share capital into shares of larger amount than its existing shares.
- (c) Convert all or any of its fully Paid-up shares into stock and reconvert that stock into fully Paid-up shares of any denomination.
- (d) Sub-divide its existing shares or any of them into shares of smaller amount than is fixed by the Memorandum of Association so however, that in the sub-division the proportion between the amount paid and the amount, if any unpaid on each reduced share shall be the same as it was in the share from which the reduced share is derived, and
- (e) Cancel any shares which, at the date of the passing of the resolution, have not been taken or agreed to be taken by any person and diminish the amount of its share capital by the amount of the shares so cancelled.

Surrender

48.

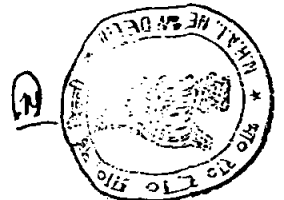
Subject to the provisions of Sections 100 to 104 of the Act, the Board may accept from any member the surrender of all or any of his shares on such terms and conditions as shall be agreed.

Power to modify
rights

49.

MODIFICATION OF RIGHTS

If at any time the share capital is divided into different classes of shares the rights attached to any class (unless otherwise provided by the terms of issue of the shares of that class) may, whether or not the Company is being wound up, be carried with consent in writing of the holders of three-fourths of the issued shares of that class, or with the sanction of a Special Resolution passed at a Separate Meeting of the holders of the shares of that class. To every such Separate Meeting of the provisions of these Articles, relating to general meeting shall apply, but so that the necessary quorum shall be two persons at least holding or representing by proxy one-tenth of the issued shares of the class but so that if at any adjourned meeting of such holders a quorum as above defined is not present, those members who are present shall be a quorum and that any holder of shares of the class present in person or by proxy may demand a poll and, on a poll, shall have one vote for each share of the class of which he is the holder. The Company shall comply with the provisions of Section 192 of the Act as to forwarding a copy of any such agreement or resolution to the Registrar of Companies.



BORROWING POWERS

50. The Board may from time to time and at its discretion, subject to the provisions of Section 58A, 292 and 293 of the Act, and Regulations made thereunder and directions issued by RBI to raise or borrow, either from the Directors or from elsewhere and secure the payment of any sum or sums of money for the purpose of the Company. Power to Borrow
51. The Board may raise or secure the repayment of such sum or sums in such manner and upon such terms and conditions in all respects as it thinks fit, and in particular, by the issue of bonds, perpetual or redeemable debentures or debenture-stock, or any mortgage, or other security on the undertaking of the whole or part of the property of the Company (both present and future), including its uncalled capital for the time being, provided that debentures with the rights to allotment of or conversion into shares shall not be issued except with the sanction of the Company in general meeting and subject to the provisions of the Act. Condition on which money may be borrowed
52. Any debentures, debenture-stock, bonds or other securities may be issued at a discount, premium or otherwise and with any special privileges, as to redemption, surrender, drawings allotment of shares, appointment of Directors and otherwise, Debentures, debenture-stock, bonds and other securities may be made assignable free from any equities between the Company and the person to, whom the same may be issued. Issue at discount etc. or with special privilege.
53. Save as Provided in Section 108 of the Act, no transfer of debenture shall be registered unless a proper instrument of transfer duly stamped and executed by the transferor and transferee has been delivered to the Company together with the certificate or certificates of debentures. Instrument of transfer
54. If the Board refuses to register the transfer of any debentures, the Company shall, within one month from the date on which the instrument of transfer was lodged with the Company, send to the transferee and to the transferor notice of the refusal.

RESERVES

55. Subject to the provisions of the Act, the Board shall in accordance with Section 205 (2A) of the Act, before recommending any dividend, set aside out of the profits of the Company such sums as it thinks proper as reserves which shall, at the discretion of the Board, be applicable for any purpose to which the profits of the Company may be properly applied and pending such application may at its discretion, either be employed in the business of the Company or be invested in such investments (other than shares of the Company as the Board may, from time to time, think fit). The Board may also carry forward any profit which it may think prudent not to divide without setting them aside as a reserve. Reserve



Capitalisation

56. Any General Meeting may resolve that the whole or any part of undivided profits of the Company (which expression shall include any premiums received on the issue of shares and any profits or other sums which have been set aside as reserve or reserves or have been carried out without being divide) be capitalised and distributed amongst such of the members as would be entitled to receive the same if distributed by way of dividend and in the same proportions on the footing that they become entitled thereto as capital and that all or any part of such capitalised amount be applied on behalf of such members in paying up in full any unissued shares of the company which shall be distributed accordingly in or towards payment of the uncalled liability on any issued shares and that such distribution or payment shall be accepted by such member in full satisfaction of their interest in the said capitalised amount. Provided that any sum standing to the credit of a share premium account or a capital redemption reserve account may, for the purpose of this Article only be applied in the paying up of unissued shares to be issued to members of the Company as fully - paid bonus shares.

Fractional Certificate

57. For the purpose of giving effect to any resolution under two last proceeding Articles the Directors may settle any difficulty which may arise in regard to the distribution as they think expedient and in particular may issue fractional certificate.

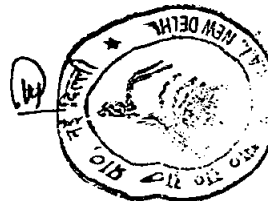
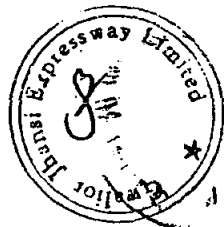
GENERAL MEETINGS

Extra - ordinary General Meeting.

58. The Directors may, whenever they think fit, call an Extra Ordinary General Meeting provided however if at any time these are not in India, directors capable of acting who are sufficient in number to form a quorum, any Director present in India may call an Extra Ordinary General Meeting in the same manner as nearly as possible as that in which such a meeting may be called by the Board.

Calling of Extra - ordinary General Meeting

59. The Board of Directors of the Company shall on the requisition of such member or members of the company as is specified in sub section (4) of Section 169 of the Act forthwith proceed to call an Extra-Ordinary General Meeting of the Company and in respect of any such requisition and of any meeting to be called pursuant thereto, all the provisions of section 169 of the Act and of any statutory modification thereof for the time being shall apply.



60. The quorum for a General Meeting shall be atleast five members present in person. Quorum
61. At every General Meeting, the Chair shall be taken by the Chairman of the Board of Directors. If at any meeting, the Chairman of the Board of Directors is not present within fifteen minutes after the time appointed for holding the meeting or, though present be unwilling to act as chairman, the members present shall choose one of the Directors present to be Chairman or if no Director shall be present or though present shall be unwilling to take the Chair then the members present shall choose one of their members, being a member entitled to vote, to be the Chairman. Chairman
62. Any act or resolution which, under the provision of this Article or of the Act, is permitted shall be sufficiently so done or passed if effected by an ordinary resolution unless either the Act or the Articles specifically require such act to be done or resolution passed by special resolution. Sufficiency of ordinary resolution
63. If within half an hour from the time appointed for the meeting a quorum be not present, the meeting, if convened upon a requisition of share-holders shall be dissolved but in any other case it shall stand adjourned to the same day in the next week at same time and place, unless the same shall be public holiday when the meeting shall stand adjourned to the next day not being a public holiday at the same time and place and if at such adjourned meeting a quorum be not present within half hour from the time appointed for the meeting, those members who are present and not being less than two persons shall be a quorum and may transact the business for which the meeting was called. When quorum not present, meeting to be dissolved and when adjourned.
64. In case of an equality of votes the chairman shall both on a show of hands and a poll, have a casting vote in addition to the vote or votes to which he may be entitled as a member. How question of resolution to be decided at meeting
65. The Chairman of a General Meeting may adjourn the same from time to time and from place to place, but no business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place. It shall not be necessary to give notice to the members of such adjournment or of the time, date and place appointed for the holding of the adjourned meeting. Power to adjourn General Meeting
66. If a poll be demanded, the demand of a poll shall not prevent the continuance of a meeting or the transaction of any business other than the question on which a poll has been demanded. Business may proceed notwithstanding demand of poll.



VOTES OF MEMBERS

Vote of members

67.

- (1) On show of hands every member present in person and being a holder of Equity Shares or as a duly authorised representative of a body corporate, Rate being a holder of Equity Shares; if he is not entitled to vote in his own rights, shall have one vote.
- (2) On a poll the voting rights of a holder of Equity Shares shall be as specified in Section 87 of the Act.
- (3) The voting rights of the holders of the preference shares including the redeemable Cumulative preference shares shall be in accordance with the provisions of section 87 of the Act.
- (4) No Company or body corporate shall vote by proxy so long as a resolution of Board of Directors under section 187 of the Act is in force and the representative named in such resolution is present at the General Meeting at which the vote by proxy is tendered.

Votes in respect of 68.
deceased, insolvent and
insane members.

A person becoming entitled to a share shall not, before being registered as member in respect of the share, be entitled to exercise in respect thereof any right conferred by membership in relation to the meeting of the Company.

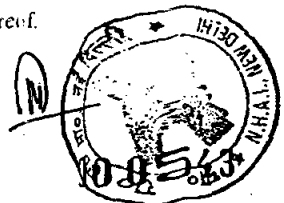
68A

If any member be a lunatic or idiot, he may vote whether on a show of hands or at a poll by his committee or other legal curator and such last mentioned persons may give their votes by proxy provided that atleast twenty-four hours before the time of holding the meeting or adjourned meeting as the case may be, at which any such person proposes to vote, he shall satisfy the Board of his rights under this Article unless the Board shall have previously admitted his right to vote at such meeting in respect thereof.

Joint holders

69.

Where there are joint holders of any share, any one of such persons may vote at any meeting either personally or by proxy in respect of such shares as if he were solely entitled thereto and if more than one of such joint-holders be present at any meeting either personally or by proxy then that one of the said persons so present whose name stands prior in order on the register in respect of such share shall alone be entitled to vote in respect thereof. Several executor or administrators of deceased member in whose name any shares stands, shall for the purpose of this Article, be deemed joint holders thereof.



70. The instrument appointing a proxy shall be in writing under the hand of the appointer or of his Attorney duly authorised in writing or if such appointer is a Corporation under its common seal or the hands of its Attorney. Instrument appointing proxy to be made in writing.
71. The instrument appointing a proxy and the Power-of-Attorney or other authority (if any) under which it is signed or a notarially certified copy of that power of authority shall be deposited at the office not less than forty-eight hours before the time for holding the meeting at which the person named in the instrument proposes to vote and in default the instrument of proxy shall not be treated as valid. Instrument appointing proxy to be deposited at the office.
72. A vote given in accordance with the terms of an instrument appointing a proxy shall be valid notwithstanding the previous death or insanity of the principal or revocation of the instrument of transfer of the share in respect of which the vote is given, Provided no intimation in writing of the death, insanity, revocation or transfer of the share shall have been received at the office or by the Chairman of the Meeting before the vote is given. Provided nevertheless that the Chairman of any meeting shall be entitled to require such evidence as he may in his discretion think fit of the due execution of an instrument of proxy and that the same has not been revoked. When vote by proxy valid through authority revoked.
73. Every instrument appointing a proxy shall as nearly as circumstances will admit, be in the form set out in Schedule IX to the Act. Form of instrument appointing proxy
- 73A. No objection shall be taken to the validity of any vote except at the meeting or poll at which such vote shall be tendered and every vote not disallowed at such meeting or poll and whether given personally or by proxy or otherwise shall be deemed valid for all purposes. Validity of Votes
74. Before or on the declaration of the result of the voting on any resolution on a show of hands; a poll be ordered to be taken by the Chairman of the Meeting on his own motion and shall be ordered to be taken by him on a demand made in that behalf by any member or members present in person or by proxy and fulfilling the requirements as laid down in Section 179, of the Act, for the time being in force. Restriction on voting.
75. No member shall be entitled to exercise any voting rights either personally or by proxy at any meeting of the Company in respect of any shares registered in his name on which any call or other sums presently payable by him have not been paid or in regard to which the Company has and has exercised any right or lien.

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DIRECTOR GENERAL PROVISIONS

- | | | |
|-------------------------------------|-----|--|
| Number of Director | 76. | The number of Directors shall not be less than three and not more than twelve. |
| First Director | 77. | <p>The following shall be the First Directors of the Company:</p> <ol style="list-style-type: none"> 1. Mr. Mohinder Singh Narula 2. Mr. Harvinder Singh Kohli 3. Mr. Narinder Singh Narula |
| Power of Director to add its member | 78. | The Directors shall have power, at any time and from time to time, to appoint any person as Additional Director as an addition to the Board but so that the total number of Directors shall not at any time exceed the maximum number fixed by the Articles. Any Director so appointed shall hold office only until the next Annual General Meeting of the Company and shall be eligible for re-election. |
| Share qualification of directors | 79. | A Director shall not be required to hold any qualification shares. |
| Remuneration of Directors | 80. | <p>The Directors shall be entitled to receive in each year a Commission @1% (One per cent) in the net profits of the Company, such commission to be calculated on the net profits of the Company to be computed in accordance with the provisions of the Companies Act, 1956 and Rules made thereunder and such commission shall be divided among the Directors in such proportion and manner as may be determined by them. The Director may allow and pay to any Director who for the time being is resident out of the place at which any Meeting of the Directors may be held and who shall come to that place for the purpose of attending such meeting such sum as the Directors may consider fair and reasonable for his expenses in connection with his attending at the meeting in addition to his remuneration as above specified. If any Director being willing is appointed to an executive office either whole time or part time to, be called upon to perform extra services or to make any special exertions for any of the purposes of the Company then, subject to Section 198, 309, 310 and 314 of the Act and rules made thereunder the Board may remunerate such Director either by a fixed sum or by a percentage of profits or otherwise and such remuneration may be either in addition to or in substitution for any other remuneration to which he may be entitled to.</p> |



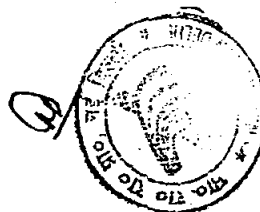
- 80A The sitting fees payable to a Director for attending a meeting of the Board or a Committee of the Board or a General Meeting shall be decided by the Board of Directors, from time to time, within the maximum limits of such fees prescribed under the provisions of Section 310 of the Act, and schedule XIIth, XIIIth thereof.



81. The continuing Directors may act notwithstanding any vacancy in their body but so that if the number falls below the minimum number fixed above, the Directors shall not except for the purpose of filling vacancies or of summoning a General Meeting, act so long as the number is below the minimum. Continuing Directors may act.
82. Subject to the provisions of Sections 297, 299, 300 and 314 of the Act, the Directors (including Managing Director) shall not be disqualified by reason of his or their office as such, from holding Office under the Company or from contracting with the Company either as vendor, purchaser, lender, agent, broker, lessor or otherwise nor shall any such contract or any contract or arrangement entered into by or on behalf of the Company with a relative of such Directors or the Managing Director or with any firm in which any Director or a relative shall be a partner or with any other partner or with a private company in which such Director is a member or director interested be avoided, nor shall any Director or otherwise so contracting or being such members so interested be liable to account to the Company for any profit realised by such contract or arrangement by reason only of such Director holding that office or of the fiduciary relation thereby established. Directors may Contract with Company

APPOINTMENT OF DIRECTORS

83. The Company in General Meeting may subject to the provisions these Articles and the Act, at any time elect any person to be a Director and may, from time to time, increase or reduce the number of Directors. Appointment of Directors
- 83A. Any member of the company shall be competent to propose the name of any person who is otherwise not disqualified as being a director of a company for the office of director in the company and shall accordingly give a notice of at least 14 days in writing alongwith a deposit of Rs. 500/- (Rupees Five Hundred) or such sum as may for the time being be prescribed by the Act, and rules made thereunder which shall be refunded only after the person proposed to be appointed as director is elected.
84. If any Director appointed by the Company in general meeting vacates office as a Director before his terms of office will expire in the normal course the resulting casual vacancy may be filled up by the Board at a meeting of the Board, but any person so appointed shall retain his office so long only as the vacating Director would have retained the same if no vacancy had occurred. Provided that the Board may not fill such a vacancy by appointing thereto any person who has been removed from the office of Director under Section 284 of the Act. Board may fill up casual vacancies
85. The Company shall, subject to the provisions of the Act, be entitled to agree with any person, firm or corporation that he or it shall have the right to appoint his or its nominee on the Board of Directors of the Company upon such terms and conditions as the Company may deem fit. The Corporation, firm or person shall be entitled, from time to time, to remove any such Director or Directors and appoint another or others in his or their places. He shall be entitled to the same right and privileges and the subject to the same obligation as any other Director of the company. Nominee Directors



Nomination of 86.
Director by
financial and
other institution

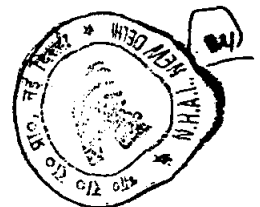
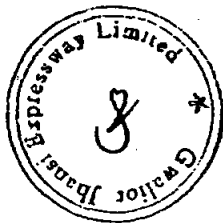
(a) Notwithstanding anything to the contrary contained in these Articles, so long as any money remain owing by the Company to the Lenders continue to hold shares in the company as a result of underwriting or direct subscription, the Lender shall have a right to appoint from time to time any person or persons as a Director or directors, whole time or non-whole time, (which director or directors is/are hereinafter referred to as nominee director/s") on the board of the Company and to remove from such office any person or persons so appointed and to appoint any person or persons in his or their place/s.

(b) The Board of Directors of the Company shall have no power to remove from office the nominee Director at the option of the Lender, such nominee director/s shall not be liable to retirement by rotation of directors. Subject as aforesaid, the nominee Director/s shall be entitled to the same rights and privileges and be subject to the same obligations as any other director of the Company.

(c) The nominee director/s so appointed shall hold the said office only so long as any money remain owing by the company to the Lender or as a result of underwriting or direct subscription and the nominee director/s so appointed in exercise of the said power shall ipso-facto vacate such office immediately after the money owing by the company to the Lender is paid off on the Lender ceasing to hold shares in the Company.

(d) The nominee director/s appointed under this Article shall be entitled to receive all notices of and attend all general meetings, boards meetings and the meetings of the committee of which the nominee director/s is/are member/s and also the minutes of such meetings. The Lender shall also be entitled to receive all such notices and minutes.

(e) The Company shall pay to the nominee director/s sitting fees and expenses which the other directors of the Company are entitled to, but if any other fees, commission, moneys or remuneration in any form is payable to the Directors of the company, the fees, commission, moneys and remuneration in relation to such nominee director/s shall accrue to the Lender and the same shall accordingly be paid by the company directly to the Lender. Any expenses that may be incurred by the Lender or such nominee director/s (Lender or such nominee director/s) in connection with their appointment or directorship shall also be paid or reimbursed by the company to the Lender or as the case may be to such nominee Director. Provided that if any such nominee director/s is an officer of the Lender the sitting fees, in relation to such nominees Director/s shall also accrue to the Lender and the same shall accordingly be paid by the Company directly to the Lender.



Provided also that in the event of the nominee director/s being appointed as whole-time director/s such nominee or directors shall exercise such powers and duties as may be approved by the Lender and have such rights as are usually exercised available to a whole-time director, in the management of the affairs of the Company. Such nominee director/s shall be entitled to receive such remuneration, fees commission and moneys as may be approved by the Lender.

Alternate Directors

(f) Subject to the provisions of section 313 of the Act, the Board may appoint any person to act as an alternate director for a director during the latter's absence for a period of not less than three months from the State in which meeting of the Board are ordinarily held and such appointment shall have effect and such appointee, whilst he holds office as an alternate director, shall be entitled to notice of meetings of the Board and to attend and vote thereat accordingly, but he shall ipso facto vacate office if and when the absent director returns to State in which meetings of the Board are ordinarily held or the absent Director vacates office as a Director.

ROTATION OF DIRECTORS

87. (1) Not less than two-third of the total number of Directors shall be persons whose period of office is liable to determination by retirement of Director by rotation.

Rotation of Directors

(2) At each Annual General Meeting of the Company one-third of or such the Directors for the time being as are liable to retire by rotation or if their number is not three or a multiple of three, than the number nearest to one-third, shall retire from office.

(3) The Directors to retire by rotation at every Annual General Meeting shall be those who have been longest in office since their last appointment, but as between persons who became Director on the same day, those to retire shall, in default of themselves, be determined, directors on the same day, those to and subject to any agreement among by let.

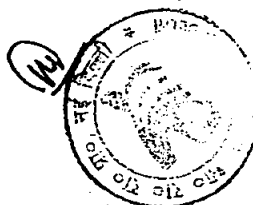
(4) If at any Annual General Meeting all the Directors appointed under Articles 87 and 108 hereby are not exempt from retirement by rotations under Section 255 of the Act, then to the extent permitted by the said Section, the exemption shall extend to the Directors or Director appointed under Articles 105. Subject to the foregoing provisions as between Directors appointed under any of the Articles referred to above, the Director or Directors who shall not be liable to retire by rotation shall be determined by and in accordance with their respective seniorities as may be determined by the Board.

88. A retiring Director shall be eligible for re-election and shall act as a Director throughout the meeting at which he retires.

Retiring
eligible
election

Directors
for re-

89. Subject to any resolution for reducing the number of Directors, if at any meeting at which an election of Directors ought to take place, the places of the retiring Directors if not filled up, the meeting shall stand adjourned till the next succeeding day which is not a public holiday at the same time and place and if at the adjourned meeting, the places of the retiring Directors are not filled up, the retiring Directors or such of them as have not had their places filled up shall (if willing to continue in office) be deemed to have been re-elected at the adjourned meeting.



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PROCEEDINGS OF DIRECTORS MEETINGS

Meetings of Directors

90.

The Directors may meet together for the despatch of business, adjourned and otherwise regulate their meetings and Proceedings as they think fit. Notice in writing of every meeting to the Director shall ordinarily be given by a Director or such other officers of the company duly authorised in this behalf to every Director for the time being in India and at his usual address in India.

Quorum

91.

The quorum for a meeting of the Directors shall be determined, from time to time in, accordance with the provisions of section 287 of the Act. If a quorum shall not be present within fifteen minutes from the time appointed for holding a meeting of the Directors, it shall be adjourned until such date and time as the Directors present shall appoint.

Summoning a meeting of Directors

92.

The Secretary may at any time, and upon request of any two Directors shall summon a meeting of the Directors

Voting at meeting

93

Subject to the provisions of Sections, 316, 372A (5) and 386 of the Act, questions arising at any meeting shall be decided by a majority of votes, each director having one vote and in case of an equality of votes, the Chairman shall have a second or casting vote.

Chairman of meeting

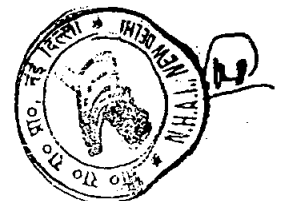
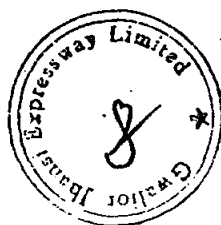
94.

The Chairman of the Board of Directors shall be the Chairman of the meetings of Directors. Provided that if the chairman or the Board of Director is not present within five minutes after the appointed time for holding the meeting the Directors present shall choose one of their members to be Chairman of such meeting.

Act of meeting

95.

A meeting of Directors for the time being at which a quorum is present shall be competent to exercise all or any of the authorities, powers and discretions by or under the Articles of the Company and the act for the time being vested in or exercisable by the Directors generally.



96. The Directors may, subject to compliance of the provisions of the Act, from time to time, delegate any of their powers to Committees consisting of such member or members of their body as they think fit, and may, from time to time, revoke such delegation. Any Committee so formed shall in the exercise of the powers so delegated conform to any regulations that may, from time to time be imposed on it by the Directors. The meeting and proceedings of any such Committee, if consisting of two or more members shall be governed by the provisions herein contained for regulating the meetings and proceedings of the Directors so far as the same are applicable thereto and are not superseded by any regulation made by the Directors under this Article.
- To appoint committee and to delegate power and revoke it

97. All acts done at any meeting of Directors or of a Committee of the Directors or by any person acting as a Director shall be valid notwithstanding that it be afterwards discovered that there was some defect in the appointment of any such Directors, Committee or person acting as aforesaid or that they or any of them were disqualified.

Validity of acts

98. Except a resolution, which the Companies Act requires it specifically to be passed in a board meeting, a resolution may be passed by the Directors or Committee thereof by circulation in accordance with the provisions of Section 289 of the Act.

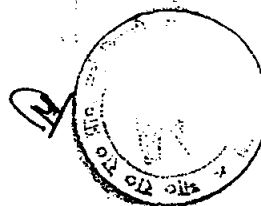
Resolution by circulation

And any such minutes of any meeting of Directors or of any Committee or of the Company if purporting to be signed by the Chairman of the such meeting or by the Chairman of next succeeding meeting shall be receivable as prima facie evidence of the matters in such minutes.

POWERS OF DIRECTORS

99. Subject to the provisions of the Act, the control of the Company shall be vested in the Directors who shall be entitled to exercise all such powers and to do all such acts and things as may be exercised or done by the Company and are not hereby or by law expressly required or directed to be exercised or done by the Company in the General Meeting but subject nevertheless to the provisions of any law and of these presents, from time to time, made by the Company in the General Meeting, provided that no regulation so made shall invalidate any prior act of the Directors which would have been valid if such regulation had not been made.

General Power of the Company vested in the Directors



Power to delegate 100. Without prejudice to the general powers conferred by the preceding Article, the Director may, from time to time and at any time, subject to the restrictions contained in the Act, delegate to managers, secretaries, officers, assistants and other employees or other persons (including any firm or body corporate) any of the powers authorised and discretions for the time being vested in the Directors.

Power to authorise sub-delegation 101. The Directors may authorise any such delegate or attorney as aforesaid to sub-delegate all or any of the powers, authorities and discretion for the time being vested in them.

Signing of documents 102. All deeds, agreements and documents and all cheques, promissory notes, drafts, hundies, bills of exchange and other negotiable instruments; and all receipts for moneys paid to the Company, shall be signed, drawn, accepted or endorsed or otherwise executed, as the case may be by such persons (including any firm or body corporate) whether in the employment of the Company or not and in such manner as the Directors shall, from time to time, by resolution determine.

Management abroad 103. The Directors may make such arrangement as may be thought fit for the management of the Company's affairs abroad, and may for this purpose (without prejudice to the generality of their powers) appoint local bodies, and agents and fix their remuneration, and delegate to them such powers as may be deemed requisite or expedient. The foreign seal shall be affixed by the authority and in the presence of and instruments sealed therein shall be signed by such persons as the Directors shall, from time to time by writing under the common seal, appoint.

The Company may also exercise the powers of keeping Foreign Registers. Such regulations not being inconsistent with the provisions of Section 157 and 158 of the Act, the Board may, from time to time, make such provisions as it may think fit relating thereto and may comply with the requirements of any local law

Manager or Secretary

104. Subject to Sections 197A, 388, 383A and 314 of the Act, a Manager or Secretary may be appointed by the Directors on such terms, at such remuneration and upon such conditions as they may think fit, and any Manager or Secretary appointed may be removed by the Directors.

A Director may be appointed as Manager or Secretary, subject to Section 314, 197 A, 383A, 387, and 388 of the Act.



105. A provision of the Act or these regulations required or authorising a thing to be done by a Director, Manager or Secretary shall not be satisfied by its being done by the same person acting both as Director and as, or in place of the Manager or Secretary.

Act of Director, Manager,
or Secretary

MANAGING DIRECTOR

106. Subject to the provisions of Sections 197A, 269, 316 and 317 and Schedule XIII of the Act, the Board may, from time to time, appoint one or more Directors to be Managing Director or Managing Directors of the Company and may, from time to time (subject to the provisions of any contract between him or them and the Company), remove or dismiss him or them from office and appoint another or others in his place or their places.

Power to appoint Managing
Director

107. Subject to the provisions of Section 255 of the Act and Article 89 (4) hereof, a Managing Director shall not, while he continues to hold that office, be subject to retirement by rotation, but he shall be counted for ascertaining the number of Directors to retire (Subject to the provisions of any contract between him and the Company) he shall be subject to the same provisions as to resignation and removal as the other Directors, and he shall, *ipso facto* and immediately, cease to be a Managing Director if he ceases to hold the office of Director for any cause

To what provisions he shall
be subjected

108. Subject to the provisions of Sections 198, 309, 310 and 311 and Schedule XIII of the Act, a Managing Director shall, in addition to the remuneration payable to him as a Director of the Company under the Articles, receive such additional remunerations as may, from time to time, be sanctioned by the Company.

Remuneration of Managing
Director

109. Subject to the provisions of the Act, in particular to the prohibitions and restrictions contained in Section 292 and 293 thereof, the Board may, from time to time, entrust to and confer upon a Managing Director for the time being such of the powers exercisable under these presents by the Board as it may think fit, and may confer such powers for such time, and to be exercised for such objects and purposes and upon such terms and conditions and with such restrictions as it thinks, fit, and the Board may confer such powers either collaterally with, or to the exclusion of, and in substitution for any of the powers of the Board in that behalf and may, from time to time, revoke, withdraw, alter or vary all or any of such powers.

Power of Managing
Director

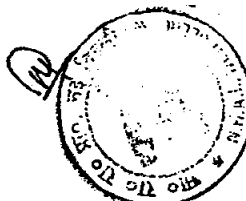
COMMENCEMENT OF BUSINESS

110. The Company shall not at any time commence any business out of other objects of its Memorandum of Association unless the provisions of sub-section 2 (B) of Section 149 of the Act have been duly complied with by it.

Compliance before
commencement of new
business

SEAL

- 25 -



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Custody of the seal 111

The Directors shall provide for the safe custody of the Seal and the Seal shall never be used except by the authority of the Director or a Committee of the Directors previously given and one Director at least shall sign every instrument to which the Seal is affixed provided nevertheless that any instrument bearing the Seal of the Company and issued for valuable consideration shall be binding on the Company notwithstanding any irregularity touching the authority of the Directors to issue the same.

DIVIDENDS

How Profit shall be 112.
divisible

Subject to Rights of members entitled to shares (if any) with preferential or special rights attached to them, the profits of the Company, from time to time, determined to be distributed as dividend in respect of any years or other period shall be applied for payment of dividend on the shares in proportion to the amount of capital paid up on the Shares provided that unless the Board otherwise determines, all dividends shall be apportioned and paid proportionately to the amounts paid or credited as paid up on the shares during any portion or portions of the period in respect of which dividend is paid. Provided always that subject as aforesaid, any capital paid up on a share during the period in respect of which a dividend is declared, shall (unless the Board otherwise determines or the terms of issue otherwise provide, as the case may be), only entitle the holder of such share to an apportion amount of such dividend as from the date of payment but so that where capital is paid up in advance of calls such capital shall not confer right to participate in profits.

Declaration of dividends 113.

The Company in General Meeting may declare a dividend to be paid to the members according to their rights and interest in the profits and may, subject to the provisions of Section 205 of the Act, fix the time for payment.

Restrictions of amount of 114.
dividends

No larger dividend shall be declared than is recommended by the Directors, but the Company in General Meeting may declare a smaller dividend.

Dividend out of profits 115.
only

No dividend shall be payable except out of the profits of the Company of the year or any other undistributed profits and no dividend shall carry interest as against the Company.

What to be deemed net 116.
profits

The declaration of the Directors as to the amount of the net profits in the audited Annual Accounts of the Company for any year shall be conclusive.

Interim dividend 117.

The Directors may, from time to time, pay to the members such interim dividends as in their judgment the position of the Company justifies.

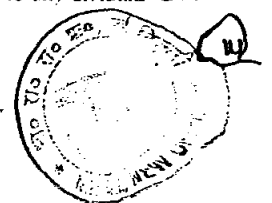
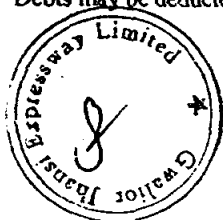
Debts may be deducted

118.

The Director may retain any dividends on which the Company has a lien and may apply the same in or towards satisfaction of the debts, liabilities or engagements in respect of which the lien exists, subject to Section 205 A of the Act.

119.

A transferor of shares shall not pass, the rights to any dividend declared thereon before the registration of the transfer.



120. Subject to Section 205A of the Act, the Directors may retain the dividends payable upon shares in respect of which any person is under the transmission Article entitled to become a member or which any person under the Article is entitled to transfer until such person shall duly become a member in respect thereof or shall transfer the same. Retention in certain cases
121. Anyone of the several persons who are registered as joint holders of any share may give effectual receipts of all dividends payments on account of dividends in respect of such shares. Dividends to joint- holder
122. Unless otherwise directed, any dividend may be paid by cheque or warrant sent through the post to the registered address of the member or person entitled thereto, or in the case of joint-holders to the registered address of that one whose name stands first on the Register in respect of the joint holding or to such person and such address and the member or person entitled or such joint-holders as the case may be, may direct and every cheque or warrant so sent shall be made payable at par to the person or to the order of the person to whom it is sent or to the order of such other person as the member or person entitled or such joint holders, as the case may be, may direct. Payment by Post
123. The payment of every cheque or warrant sent under the provisions of the last proceeding Article shall, if such cheque or warrant purports to be duly endorsed, be a good discharge to the Company in respect thereof, provided nevertheless that the Company shall not be responsible for the loss of any cheque, dividend, warrant or postal money order which shall be sent by post to any member or by his order to any other person in respect of any dividend. When payments good discharge
- 123A Any dividend remaining unpaid or unclaimed after having been declared shall be dealt in accordance with section 205A and 205B of the Companies Act, 1956 and Rules made thereunder.
- 123B No unclaimed or unpaid dividend shall be forfeited by the Board and the Company shall comply with the provisions of Section 205A of the Companies Act, 1956 and Rules made thereunder in respect of such dividend.
- BOOKS AND DOCUMENTS**
124. Subject to the provisions of the Companies Act, 1956, the Book of Accounts shall be kept at the Registered Office or at such other place as the Board of Directors think fit, and shall be open to inspection by any Director or Directors during business hours. Where to be kept
125. The Directors shall, from time to time, determine whether and to what extent and at what times and places and under what conditions or regulations the accounts or books or documents of the Company or any of them shall be open for inspection to members not being Directors, and no member (not being a Director shall have any right of inspection to any books of account or documents of the Company except as conferred by law or authorised by the Board of Directors or by the Company in the General Meeting. Inspection by members



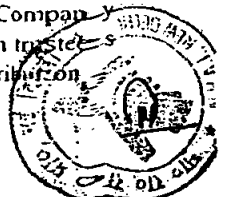
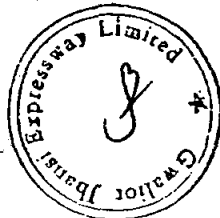
- Balance sheet and Profit and Loss Account Audit 126. Balance Sheet and Profit and Loss Account will be audited once in a year by a qualified auditor for correctness as per provisions of the Act.
127. The first Auditors of the Company shall be appointed by the Board of Directors within one month after its incorporation who shall hold office till the conclusion of first Annual General Meeting.
128. The directors may fill up any casual vacancy in the office of the Auditors.
129. The remuneration of the Auditors shall be fixed by the Company in the Annual General Meeting except as otherwise decided and that remuneration of the first or any Auditors appointed by the Directors may be fixed by the Directors.
- How notices served on members 130. The Company shall comply with the provisions of Sections 53, 172 and 190 of the Act as to the serving of notices.
- Transfer bound by prior notices 131. Every person who, by operation of law, or by transfer or by other means whatsoever, shall become entitled to any shares shall be bound by every notice in respect of such share which previously to his name and address being entered on the register shall be duly given to the person from whom he derives his title to such share.
- Notice valid through members deceased 132. Any notice or document delivered or sent by post to or left at the registered address of any member in pursuance of these presents shall notwithstanding such member be then deceased and whether or not the Company has notice of his demise, be deemed to have been duly served in respect of any registered shares whether held solely or jointly with other persons by such member, until some other person be registered in his stead as the holder or joint-holders thereof and such service shall for all purposes of these presents be deemed a sufficient service of such notice or document on his or her heirs, executors or administrators, and all persons, if any, jointly interested with him or her in any such shares.
- How notice to be signed 133. The signature on any notice to be given by the Company may be written or printed.

RECONSTRUCTION

Reconstruction

134

On any sale of the undertaking of the Company, the Directors or the Liquidators on a winding up may, if authorised by a Special Resolution, accept fully paid or partly paid-up shares, debentures or securities of any other Company whether incorporated in India or not other than existing or to be formed for the purchase in whole or in part of the property of the Company, and the Directors (if the profits of the Company permit), or the Liquidators (in a winding-up) may distribute such shares or securities or any other property of the Company amongst the members without realisation or vest the same in trustees for them and any Special Resolution may provide for the distribution



or appropriations of the cash, shares or other securities, benefits or property, otherwise than in accordance with the strict legal rights of the members or contributories of the Company and for the valuation of any such securities or property at such price and in such manner as the meeting may approve and all holders of shares shall be bound to accept and shall be bound by any valuation or distribution so authorised, and waive all rights in relation thereto, save only in case the Company is proposed to be or is in the course of being wound up, such statutory rights, if any, under Section 494 of the Act as are incapable of being varied or excluded by these presents.

SECRECY

135. Subject to the provisions of law of the land and the Act, no member or other person (not being a Director) shall be entitled to enter upon the property of the Company or to inspect or examine the Company's premises or properties of the Company without the permission of the Directors, or subject to Article 126 to require discovery or any information in respect of any detail of the Company's trading or any matter which is or may be in the nature of a trade secret, mystery of trade, or secret process or of any matter whatsoever which may relate to the conduct of the business of the Company and which, in the opinion of the Directors will be inexpedient in the interest of the members of the Company to communicate to the public.
- No shareholders to enter the premises of the Company without permissions

WINDING UP

136. If the Company shall be wound up and the assets available for distribution among the members as such shall be insufficient to repay the whole of the paid-up capital, such assets shall be distributed so that as nearly as may be the losses shall be borne by the members in proportion to the capital paid-up or which ought to have been paid-up at the commencement of the winding-up on the shares held by them respectively. And if in a winding-up the assets available for distribution among the members shall be more than sufficient to repay the whole of the capital paid-up at the commencement of the winding-up, the excess shall be distributed amongst the members in proportion to the paid-up capital, at the commencement of the winding-up, or which ought to have been paid-up on the shares held by them respectively. But this Article is to be without prejudice to the rights of the holders of shares issued upon special terms and conditions.
- Distribution of Assets
137. In the event of Company being wound up, whether voluntarily or otherwise, the liquidators may with the sanction of a Special Resolution divide among the contributories in specie or in kind any part of the assets of the Company and may with the like sanction, vest any part of the assets of the Company in Trustees upon such trusts for the benefit of the contributories or any of them, as the liquidators, with the like sanction shall think fit.
- Distribution of Assets in Specie



INDEMNITY AND RESPONSIBILITY

Indemnity

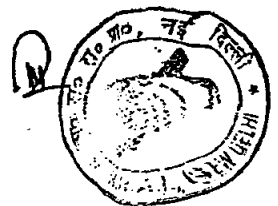
138.

Subject to the provisions of Section 201 of the Act, every Director, Manager, Secretary and other officer or employee of the Company, shall be indemnified against and it shall be the duty of the Directors to payout of the funds of the Company all bona fide costs, losses and expenses (including travelling expenses) which any such Directors, Manager or Secretary or other offices or employee may incur or become liable to by reason of any contract entered into or any way in the discharge of his or their duties and in particular, and so as not to limit the generality of the foregoing provisions, against all bona fide liabilities incurred by him or by them as such Director, Manager, Secretary, Officer or employee in defending any proceeding whether civil or criminal in which judgment is given in his or their favour or he or they is or are acquitted, or in connection with any application under Section 633 of the Act in which relief is granted by the Court and the amount for which such indemnity is provided shall immediately attach as a lien on the property of the Company and have priority as between the members over all other claims.

Individual responsibility of Directors

139.

Subject to the provisions of the Act and so far as such provisions permit, no Director, Auditor or other Officer of the Company shall be liable for acts, receipts, neglects or defaults of any other Director or Officer, or for joining in any receipt or act for conformity, or for any loss or expense happening to the Company through the insufficiency or deficiency of title to any property acquired by order of the Director for or on behalf of the Company or for the insufficiency or deficiency of any security in or upon which any of the moneys of the Company shall be invested, or for any loss occasioned by any error of judgment, omission, default, or oversight on his part, or for any loss, damage or misfortune whatever which shall happen in the execution of the duties of his office or in relation thereto, unless the same happens through his own dishonesty.

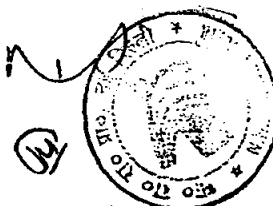


S. No.	Name, Description, Occupation and addresses of subscribers	Signatures of Subscribers	Names, Addresses description and signature of witnesses
1.	Narinder Singh Narula S/o Late Shri D. S. Narula Occupation: Business R/o: 3, Golf Links, New Delhi-110003	-sd- Narinder Singh Narula	I witness the signatures of the subscribers to the Memorandum of Association of the Company -sd- Vineet K Chaudhary (Practising Company Secretary) Cp No. 4548
2.	DS Constructions Limited Regd. Off. C-66, South Extension, Part-II, New Delhi-110049 Through Power of Attorney Holder Narinder Singh Narula S/o Late Shri D. S. Narula Occupation: Business	-sd- Narinder Singh Narula	
3.	Vinod Singh Narula S/o Late Shri D. S. Narula Occupation: Business R/o: 3, Golf Links, New Delhi-110003	-sd- Vinod Singh Narula	
4.	Harvinder Singh Kohli S/o Late Shri Prahlad Singh Kohli Occupation: Service R/o: Apartment No.10, 1 Link Road, Jangpura, New Delhi-110014	-sd- Harvinder Singh Kohli	
5.	Kishigoli Laxman Mallya S/o Shri K. Dasu Mallya Occupation: Business R/o: 204, IC-3, Essel Towers, M.G. Road, Gurgaon-122002	-sd- K.L. Mallya	
6.	Surjeet Singh Dhawan S/o Shri R.S. Dhawan Occupation: Service R/o: Pkt FG-1/69C, LIG Flats, Vikas Puri, New Delhi-110018	-sd- Surjeet Singh Dhawan	
7.	Om Prakash S/o Late Sh. Remal Dass Occupation: Business R/o C-5/17, Model Town-3, Delhi-110 009	-sd- Om Prakash	

Place: New Delhi

Dated: 03/07/2006

8



GWALIOR JHANSI EXPRESWAYS LIMITED

CERTIFIED TRUE COPY OF THE RESOLUTION PASSED BY THE BOARD OF DIRECTORS OF GWALIOR JHANSI EXPRESSWAYS LIMITED IN THEIR FIRST BOARD MEETING HELD ON FRIDAY 7TH JULY 2006 AT REGISTERED OFFICE OF THE COMPANY AT C-66, NDSE-II, NEW DELHI.

TO EXECUTE CONCESSION AGREEMENT WITH NHAI

The Chairman informed the Board that the Company has been incorporated on 06th July 2006 as a Special Purpose Company to execute the project of "Design, Construction, Development, finance, Operation and Maintenance of Rehabilitation and Upgrading to four lane from km 16.00 to km 96.127 on National Highway-75 (NH-75) in the states of Madhya Pradesh and Uttar Pradesh under North-South Corridor (NHDP Phase-II) on Build, Operate and Transfer (BOT) (Annuity) basis" awarded to the consortium of M/s DS Constructions Limited, India & M/s Apollo Enterprises Limited, on 31st May 2006 by National Highway Authority of India (NHAI), Ministry of Road Transport and Highways, Government of India (MoRTH).

He informed the Board that as per the terms of award of the Contract the Company has to execute a Concession Agreement with National Highway Authority of India (NHAI) for *inter alia* the design, engineering, financing, procurement, construction, operation and maintenance of the said Project Highway on Annuity Basis for a semi annually amount of Rs. 52.29 Crores. He further informed the Board that the Concession Period including the Construction Period of 30 months is 20 Years, during which the Company shall be entitled to receive annuity from NHAI.

He also placed before the Board a draft Concession Agreement which was received with the RFQ documents duly initialed for the purpose of identification and requested the Board to authorize any of the Director to negotiate, finalise and execute the Concession Agreement on behalf of the Company.

After due deliberations the following Resolution was passed:

"RESOLVED that the consent of the Board is hereby accorded to negotiate, finalise and execute the Concession Agreement with National Highway Authority of India (NHAI) for *inter alia* the Design, Construction, Development, finance, Operation and Maintenance of Rehabilitation and Upgrading to four lane from km 16.00 to km 96.127 on National Highway-75 (NH-75) in the states of Madhya Pradesh and Uttar Pradesh under North-South Corridor (NHDP Phase-II) on Build, Operate and Transfer (BOT) (Annuity) basis."

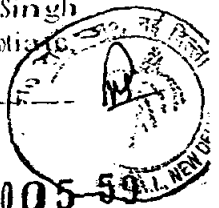
"RESOLVED FURTHER that Mr. Harvinder Singh Kohli and Mr. Mohinder Singh Narula, Directors of the Company be and are hereby authorized severally to negotiate



Registered office: C-66, South Extension Part-II, New Delhi-110049

Telephone: 011-26255835/26256837/26252753

Fax: 011-26252386, 26252248



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GWALIOR JHANSI EXPRESWAYS LIMITED

finalise, sign, seal, execute the Concession Agreement and to do all necessary acts, deeds or things as may be necessary to give effect to the aforesaid resolution *inter-alia* to carry out necessary correction, amendments, changes, additions, alterations, deletions and such other work as may be necessary, in the Draft Concession Agreement and other papers/documents related thereto."

"RESOLVED FURTHER that the Common Seal of the Company be affixed on the executed Concession Agreement in the presence of any of the Directors of the Company in accordance with the provision of the Articles of Association of the Company."

"RESOLVED FURTHER that Mr. Harvinder Singh Kohli and Mr. Mohinder Singh Narula, Directors of the Company be and are hereby authorised to inform and deliver a certified true copy of this resolution to NHAI/MORTH."

Certified True Copy
For Gwalior Jhansi Expressways Limited

Director



Registered office: C-66, South Extension Part-II, New Delhi-110049
Telephone: 011-26255835/26256837/26252753
Fax: 011-26252386, 26252248

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GWALIOR JHANSI EXPRESWAYS LIMITED

CERTIFIED TRUE COPY OF THE EXTRACTS OF THE MINUTES OF THE MEETING OF THE BOARD OF DIRECTORS OF GWALIOR JHANSI EXPRESSWAYS LIMITED HELD ON FRIDAY 7TH JULY 2006 AT REGISTERED OFFICE OF THE COMPANY AT C-66, NDSE-II, NEW DELHI.

The Chairman informed the Board that as per the Memorandum of Understanding (MOU) executed between the consortium members the members of the consortium had intended to hold the shareholding in the Company in the ratio/percentages stipulated herein below:

Apollo Enterprises Limited	: 85%
D.S. Constructions Limited & Associates	: 15%
TOTAL	: 100%

The Board after due discussions requested Mr. M. S. Narula, Director to request D.S. constructions Limited to offer for transfer of 42,500 Equity Shares of Rs.10/- each being 85% of the total paid up share capital of the Company in favour of Apollo Enterprises Limited. Mr. M.S. Narula who is the nominee and the Managing Director of D.S. Constructions Limited assured the Board that they would take immediate steps to transfer the said shares in favour of Apollo Enterprises Limited.

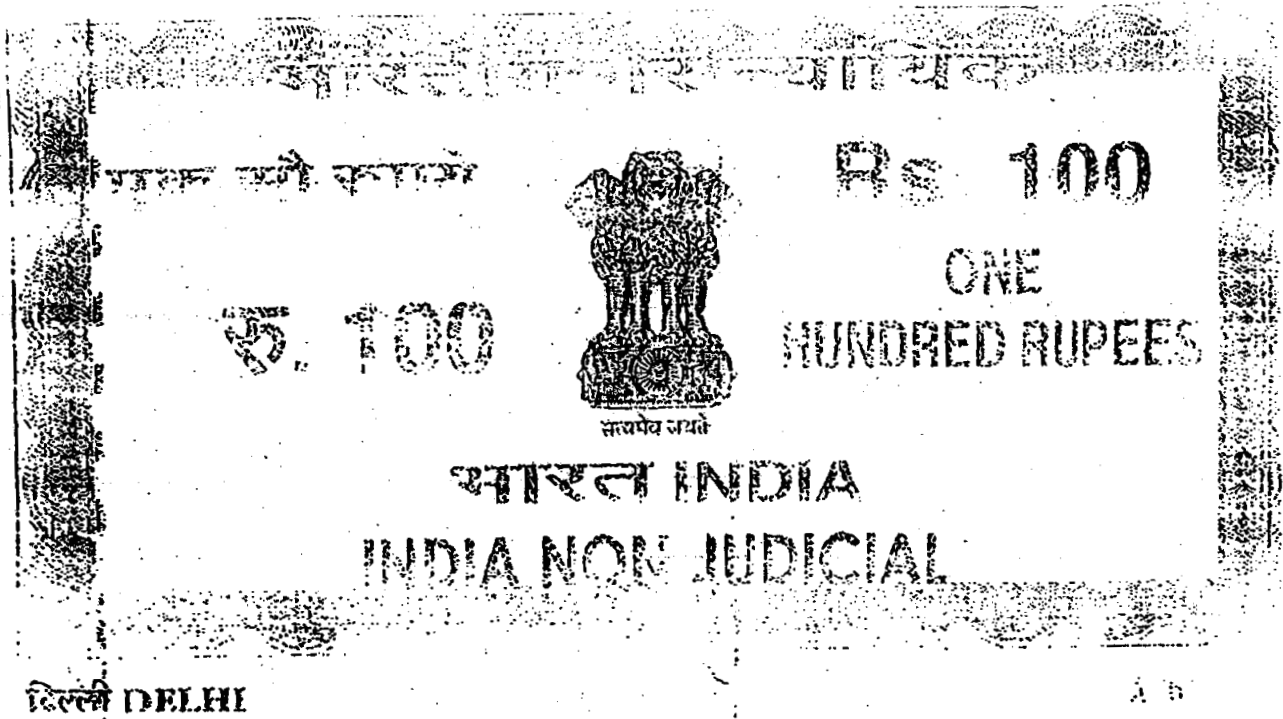
**Certified True Copy
For Gwalior Jhansi Expressways Ltd.**


Director



**Registered office: C-66, South Extension Part-II, New Delhi-110049
Telephone: 011-26255835/26256837/26252753
Fax: 011-26252386, 26252248**

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ANNEX 2C
MEMORANDUM OF UNDERSTANDING (MoU)

This Memorandum of Understanding (MoU) entered into this Dated this 13th day of March 2006 at New Delhi.

Among

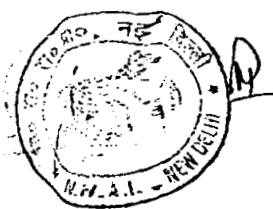
M/s Apollo Enterprises Limited (hereinafter referred as "Apollo") and having office at P.O. Box 118, Salisbury House, Isle of Man, IM99 1QZ (U.K.), Party of the First Part

And

M/s D. S. Constructions Limited (hereinafter referred as "DSC") and having office at C-66, South Extension - II, New Delhi - 110 049, INDIA, Party of the Second Part

The parties are individually referred to as Party and collectively as Parties.

WHEREAS National Highways Authority of India (NHAI) has invited Qualification and Financial proposal from entities interested in (i) Design, Construction, Development, Finance, Operation and Maintenance of Km 16.000 to Km 96.127 on National Highway no. 75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh on BOT (Annuity) basis for a specified Concession Period (the "Concession Period")



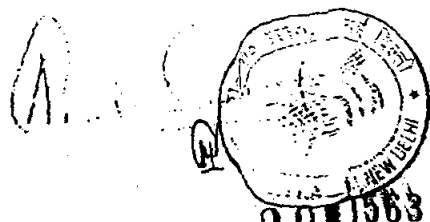
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AND WHEREAS the Parties have had discussions for formation of a Consortium for bidding for the Project and have reached an understanding on the following points with respect to the Parties' rights, obligations towards each other and their working relationship.

IT IS HEREBY AS MUTUAL UNDERSTANDING OF THE PARTIES AGREED AND DECLARED, FOLLOWS:

- 1) That the Parties will form a Special Purpose vehicle (SPV) with the shareholding commitment expressly stated to domicile the Project, prior to the start of implementation of the Project. The SPV shall not undertake any other business during the Concession Period, to domicile the Project prior to the start of implementation of the Project.
- 2) That the aggregate equity share holding of the Parties and their / his Associates, in the issued and paid up capital of the SPV shall not be less than 51% (fifty one percent) during the Construction Period and for 3 years following Commercial Operations Date ('COD') and 26% (twenty six percent) during the balance remaining Operation Period.
- 3) That M/s Apollo Enterprises Limited who is the Lead Members of the Consortium commits to hold a minimum equity stake equal to 51% of the aggregate shareholding of the Consortium in the SPV at all times during the Concession Period.
- 4) That M/s D.S. Constructions Limited, who are not Lead Members of the Consortium, shall hold a minimum equity stake equal to 10% of the aggregate shareholding of the Consortium in the SPV at all times during the Concession Period.
- 5) That any dilution in the equity holding by the Parties in the SPV shall be as per the provisions of the Concession Agreement.
- 6) That the shareholding commitments shall be recorded in the Concession agreement and any changes shall be allowed thereof, except in accordance with the provisions of the Concession Agreement and the Request for Proposal.
- 7) That the Parties shall carry out all responsibilities as Concessionaire in terms of the Concession Agreement.
- 8) That the roles and the responsibilities of each Party at each stage of the Bidding shall be as follows:

S#	Participation Detail	Apollo	DSC
(i)	Financial	Jointly	Jointly
(ii)	Planning	Jointly	Jointly
(iii)	Contract Equipment	Jointly	Jointly
(iv)	Key Personnel	Jointly	Jointly
(v)	Execution of Works	Jointly	Jointly



- 9) That the minimum equity holding of each Party (in percentage term) in the SPV shall be as follows:

Name of the Party	% of equity capital
APOLLO	85 %
DSC	15%

- 10) That the Parties shall be jointly and severally liable for the execution of the Project in accordance with the terms of the Concession agreement.
- 11) That the Parties affirm that they shall implement the Project in good faith and shall take all necessary steps to see the Project through expeditiously. They shall not negotiate with any other party for this Project.
- 12) That this MoU shall be governed in accordance with the laws of India and courts in New Delhi shall have exclusive jurisdiction to adjudicate disputes arising from the terms herein.

In witness whereof the Parties affirm that the information provided is accurate and true and have caused this MoU to be duly executed on the date and year above mentioned.

For and on behalf of
1. APOLLO ENTERPRISES LTD.

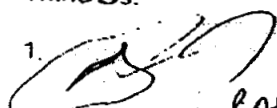
For and on behalf of
2. D.S. CONSTRUCTIONS LTD.

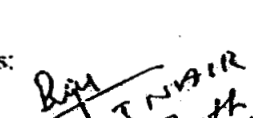
Authorized Signatory

Authorized Signatory

Witness:

Witness:

1. 
BIJAY RAWAT
C-66, South Extn. II
New Delhi-49

2. 
Bijay Rawat
C-66, South Extn. II
New Delhi-49



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APOLLO ENTERPRISES LIMITED

CERTIFIED TRUE COPY OF RESOLUTION PASSED AT THE MEETING OF BOARD OF DIRECTORS OF THE COMPANY HELD ON 7TH DAY OF JULY 2006 AT ITS REGISTERED OFFICE.

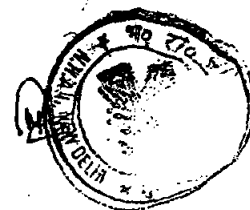
"RESOLVED THAT the Company do hereby appoint, constitute and nominate Mr. Harvinder Singh Kohli s/o Late Shri P.S. Kohli, r/o 1, Link Road, 1st Floor (Rear Side), Jangpura Extn., New Delhi- 110 014, India, as its true and lawful attorney -in - fact with full powers and authority to do and execute all acts, deeds or things within the premises hereinafter mentioned on behalf of and for the Company viz.

- (i) to acquire on behalf of the Company 42,500 Equity Shares of Rs. 10 each of **GWALIOR JHANSI EXPRESSWAYS LIMITED ("GJEL")**, constituting 85% of the its total subscribed and paid up capital from M/s D.S. Constructions Limited;
- (ii) and generally to do all acts, deeds or things incidental to the powers hereinabove mentioned and all other acts and things necessary for giving effect to the above resolution.

RESOLVED FURTHER THAT the Board be and hereby accord its consent to subscribe further issue of shares, equity or preference, of GJEL having its Registered office at C-66, South Extension Part-II, New Delhi as and when any issue of shares is floated by GJEL and offered to the Company."

**Certified True Copy
For Apollo Enterprises Limited**


Authorised Signatory



**P.O. BOX NO. 61233,
LOB-02, BG-02, JEBEL ALI,
DUBAI-U.A.E**

000 565



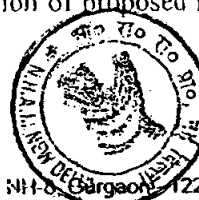
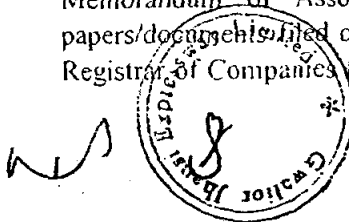
D.S. CONSTRUCTIONS LTD.
(An ISO 9001 : 2000 certified company)
C-66, South Extension-II, New Delhi-110049
Phones : 2625-5835 / 6837 / 2625 2753
Fax : 2625 2386, 2625 2248
www.dsconstructions.com

EXTRACTS OF THE MINUTES OF THE MEETING OF BOARD OF DIRECTORS OF D.S.CONSTRUCTIONS LIMITED HELD ON 31ST DAY OF MAY 2006 AT C-66, SOUTH EXTENSION, PART-II, NEW DELHI-110049

"RESOLVED THAT to execute the project of "Design, Construction, Development, finance, Operation and Maintenance of Rehabilitation and Upgrading to four lane from km 16.00 to km 96.127 on National Highway-75 (NH-75) in the states of Madhya Pradesh and Uttar Pradesh under North-South Corridor (NHDP Phase-II) on Build, Operate and Transfer (BOT) (Annuity) basis" awarded to the Company, the Board be and hereby accord its consent to incorporate a Special Purpose Company in the name and style of **"GWALIOR JHANSI EXPRESSWAYS LIMITED"** in the state of New Delhi, India"

"RESOLVED FURTHER THAT the Company do hereby appoint, constitute and nominate Mr. Narinder Singh Narula s/o Late Shri D.S. Narula, r/o 3, Golf Links, New Delhi - 110003, India, as its true and lawful attorney -in -fact with full powers and authority to do and execute all acts, deeds or things within the premises hereinafter mentioned on behalf of and for the Company yiz.

- (i) to represent/ sign and subscribe on behalf of the Company to the Memorandum and Articles of Association of the Proposed Company to be incorporated in the name of GWALIOR JHANSI EXPRESSWAYS LIMITED ("GJXL"), which name has been approved by the Registrar of Companies, NCT of Delhi and Haryana, New Delhi, India and to take up 47,000 (Forty Seven Thousand only) Equity shares of Rs.10/- each, constituting 94% of the proposed total subscribed and paid up capital of the proposed company under incorporation for and on behalf of and in the name of the Company, i.e. M/s DS Constructions Limited.
- (ii) to do all acts necessary and to sign all documents in relation to the incorporation of the proposed new Company
- (iii) to also authorise Mr. Vineet K Choudhary, Practising Company Secretary S/o Late Shri Jaipal Singh Choudhary, R/o C-414, Sector 10, Noida, Uttar Pradesh (India), to carry out necessary correction, amendments, changes, additions, alterations, deletions and such other work as may be necessary, in the Memorandum of Association and Articles of Association and other papers/documents filed or to be filed and to make representations before the Registrar of Companies for the incorporation of proposed new Company and



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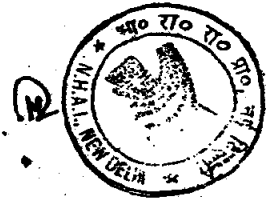
also authorise him to collect the certificate of incorporation from the office of Registrar of Companies NCT of Delhi and Haryana, New Delhi, India.

- (v) and generally to do all acts, deeds or things incidental to the powers hereinabove mentioned and all other acts and things necessary for incorporation of the proposed new Company

Certified True Copy

For D.S. Constructions Limited

N.S. Narula
Director



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REGISTER OF MEMBERS
GWALIOR JHANSI EXPRESSWAYS LIMITED

S.NO.	NAME OF SHARE HOLDER	FATHER'S NAME	OCCUPATION	RESIDENTIAL ADDRESS/ REGD. OFF.	NO. OF SHARES	FOLIO NO.	DATE OF ALLOTMENT	NO. OF SHARES TRFD.	NAME OF TRANSFEREE	FOLIO OF TRANSFEREE	DATE OF TRANSFER	BALANCE SHARES
1	NARINDER SINGH NARULA	LATE SHRI DARSHAN SINGH NARULA	BUSINESS	3, GOLF LINKS, NEW DELHI-110003	500 (FIVE HUNDRED ONLY)	N-1	7/7/2006	NIL	N/A	N/A	N/A	500
2	DS CONSTRUCTIONS LIMITED	N/A	BUSINESS	C-86, SOUTH EXTENSION PART-II, NEW DELHI-110049	47,000 (FORTY SEVEN THOUSAND ONLY)	D-1	7/7/2006	NIL	N/A	N/A	N/A	47000
3	VIRENDER SINGH NARULA	LATE SHRI DARSHAN SINGH NARULA	BUSINESS	3, GOLF LINKS, NEW DELHI-110003	500 (FIVE HUNDRED ONLY)	V-1	7/7/2006	NIL	N/A	N/A	N/A	500
4	HARVINDER SINGH NARULA	LATE SHRI PRAHLAD SINGH KOHLI	SERVICE	APPT. NO. 10, 1 LINK ROAD JANGPURA, NEW DELHI-110014	500 (FIVE HUNDRED ONLY)	H-1	7/7/2006	NIL	N/A	N/A	N/A	500
5	KINNIGOLI LAXMAN MALLYA	SHRI K DASU MALLYA	BUSINESS	ESSEL TOWERS, MG ROAD, GURGAON-122002	500 (FIVE HUNDRED ONLY)	K-1	7/7/2006	NIL	N/A	N/A	N/A	500
6	SURJEET SINGH DHAWAN	SHRI RAJINDER SINGH DHAWAN	SERVICE	PG-188C, LIG FLATS, VIKAS PURI, NEW DELHI-110018	500 (FIVE HUNDRED ONLY)	S-1	7/7/2006	NIL	N/A	N/A	N/A	500
7	OMPRAKASH	SHRI REMAL DASS	BUSINESS	C-3/17, MODEL TOWN-3, DELHI-110009	500 (FIVE HUNDRED ONLY)	O-1	7/7/2006	NIL	N/A	N/A	N/A	500



50,000/- Jhansi

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GWALIOR JHANSI EXPRESWAYS LIMITED

CERTIFIED TRUE COPY OF LIST OF DIRECTORS

<u>S.NO.</u>	<u>NAME OF DIRECTOR</u>	<u>FATHER'S NAME</u>	<u>RESIDENTIAL ADDRESS</u>	<u>PAN NO.</u>
1	MR. MOHIDER SINGH NARULA	MR. BALBIR SINGH NARULA	3, GOLF LINKS, NEW DELHI-110003	AACPN0974C
2	MR. NARINDER SINGH NARULA	LATE MR. DARSHAN SINGH NARULA	3, GOLF LINKS, NEW DELHI-110003	AAAPN2574Q
3	MR. HARVINDER SINGH KOHLI	LATE MR. PRAHLAD SINGH KOHLI	APARTMENT NO. 10, 1 LINK ROAD, JANGPURA, NEW DELHI-110014	AIHPK2586Q

Certified to be true
For Gwalior Jhansi Expresway Limited

Director



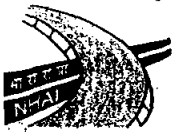
Registered office: C-66, South Extension Part-II, New Delhi-110049

Telephone: 011-26255835/26256837/26252753

Fax: 011-26252386, 26252248

300569

***Letter regarding Amendment to
Performance Security and other
Submission made by SPV***



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)
National Highways Authority of India

(Ministry of Shipping, Road Transport and Highways)

जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली-110 075

G-5 & 6, Sector-10, Dwarka, New Delhi-110075

दूरभाष / Phone: 91-11-25074100/25074206

फैक्स / Fax: 91-11-25093507 / 25093514

एक्स. / Extn.: 2223 / 2318 / 2468 / 2553

NHA/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/MP-UP/NS-I/2006/999

Date: 22-09-06

To

M/s Gwalior Jhansi Expressways Limited

C-66, South Extension-II,

New Delhi-110 049.

Phone No.91-11-26262470

Fax No.91-11-26252386

Kind Attn.: Sh. H.S.Kohli, Authorized Signatory

Sub:- Design, Construction, Development, Finance, Operation and Maintenance of the work of Rehabilitation and Upgrading to four lane from Km. 16.000 to Km. 96.127 on National Highway No. 75 (NH-75) in the States of Uttar Pradesh & Madhya Pradesh under North South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis – Package No. NS-I/BOT/MP-UP

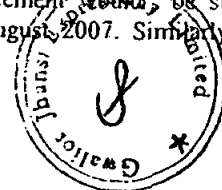
Sir,

Please refer to your letter no. DSCL/2K5/MR/1901 dated 3rd August 2006 on the subject mentioned forwarding therewith a compliance list by the SPV for signing of the Concession Agreement. The documents have been examined and following observations are communicated.

- i) Recital "B" of the three bank guarantees submitted against performance security are to be modified as under
- "In order to perform and discharge all its obligations concerning the "Project" the Concessionaire is required to give National Highways Authority of India (NHAI) a guarantee by a recognized Bank based in India in the sum of Rs 18.12 Crores. (Indian Rupees Eighteen crores Twelve lakhs only) as security for compliance by the Concessionaire with its obligations under the Concession Agreement upto and including Construction Period".
 - "In order to perform and discharge all its obligations concerning the "Project" the Concessionaire is required to give National Highways Authority of India (NHAI) a guarantee by a recognized Bank based in India in the sum of Rs 9.50 Crores. (Indian Rupees Nine crores Fifty lakhs only) as security for compliance by the Concessionaire with its obligations under the Concession Agreement upto and including Construction Period".
 - "In order to perform and discharge all its obligations concerning the "Project" the Concessionaire is required to give National Highways Authority of India (NHAI) a guarantee by a recognized Bank based in India in the sum of Rs 2.58 Crores. (Indian Rupees Two crores Fifty Eight lakhs only) as security for compliance by the Concessionaire with its obligations under the Concession Agreement upto and including Construction Period".

ii)

The validity of the bank guarantee no 0007BG00128406 for an amount of Rs 9.50 Crores which is valid till 02.03.2007 may be extended so as to cover a period of 300 days from the expected date of signing of the concession agreement. Assuming the Concession Agreement would be signed by 31st October 2006, the BG needs to be extended to cover the period up to August 2007. Similarly the Bank Guarantee



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no. 0007BG00128506 for an amount of Rs 2.58 Crores, which is valid till 02.03.2007 needs to be extended to cover the period up to August 2007.

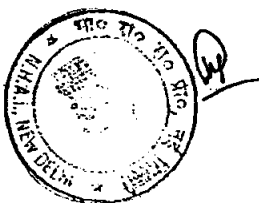
- iii) The validity of bank guarantee no. 0007BG00128606 for an amount of Rs.18.12 Crores which is valid till 02.08.2009 may be extended up to February 2010 so as to cover the period up to the Construction period.
- iv) The SPV i.e. M/s Gwalior Jhansi Express Limited had not been duly constituted in accordance to the requirement of the RFP Document. The shareholding of equity in the SPV should be as per the MoU submitted at the time of submission of bids i.e. 85 % of equity in the SPV should be with M/s Apollo Enterprises Limited and 15 % should be with DS Constructions Limited.
- v) The Board Resolution of the SPV authorizing the execution of the Concession Agreement has to be passed after both Consortium partners have subscribed to the equity of SPV in accordance with the representation contained in the MoU between the Consortium partners.
- vi) Item No. (i) of the extracts of the Board Resolution of M/s DS Constructions dated 31-05-2006 authorizing the subscription of 94 % equity in the SPV does not comply with the MoU between the Consortium partners. This needs to be rectified.
- vii) Draft Concession Agreement incorporating the amendments to the RFP issued by NHAI may be submitted.

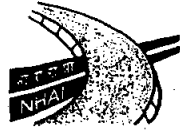
Compliance to the above mentioned observations may be submitted at the earliest.



Yours faithfully,

R.K. Singh
(R.K. Singh)
Manager(N-I)





भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Shipping, Road Transport and Highways)

जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली-110 075

G-5 & 6, Sector-10, Dwarka, New Delhi-110075

दूरभाष / Phone: 91-11-25074100/25074200

फैक्स / Fax: 91-11-25093507 / 25093514

एक्स. / Extn.: 2223 / 2318 / 2468 / 2553

NHAI/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/MP-UP/NS-1/2006 / 1002

26-09-2006

To

M/s Gwalior Jhansi Expressways Limited

C-66, South Extension-II,

New Delhi-110 049.

Phone No.91-11-26262470

Fax No.91-11-26252386

Kind Attn.: Sh. H.S. Kohli, Authorized Signatory

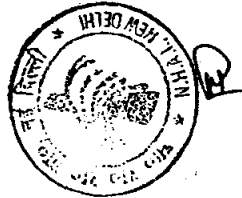
Sub:- Design, Construction, Development, Finance, Operation and Maintenance of the work of Rehabilitation and Upgrading to four lane from Km. 16.000 to Km. 96.127 on National Highway No. 75 (NH-75) in the States of Uttar Pradesh & Madhya Pradesh under North South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis – Package No. NS-1/BOT/MP-UP :-
Sir,

Please refer to NHAI's letter of even number dated 22-09-2006 on the subject mentioned above. Compliance to the above observations mentioned in the letter as mentioned above has not been received as on date. This is causing delay in signing of Concession Agreement. Immediate necessary action in the matter is requested



Yours faithfully,

(R.K. Singh)
Manager (N-II)



o/c

300572

GWALIOR JHANSI EXPRESWAYS LIMITED

Ref. No. : DSCL/2K5/ MR/1913
Date : 26th September 2006

The Manager (N-II),
National Highways Authority of India
G- 5 & 6, Sec - 10
New Delhi-110 075.

Kind Attn : Mr. R. K. Singh

Sub : Design, Construction, Development, finance, Operation and Maintenance of the work of rehabilitation and upgrading to 4 lane from Km. 16.000 to Km. 96.127 on NH - 75 in the states of Uttar Pradesh & Madhya Pradesh under NS Corridor (NHDP Phase - II) on Build, Operate & Transfer (BOT) (Annuity) basis. Package no. NS-1/BOT/MP-UP

Dear Sir,

This has reference to your letter no. NHAI PH-II NHDP BOT (ANNUITY)/GM(N-II)/MP-UP/NS-I/2006/1002 dated 26th September 2006 received through fax wherein you have referred to your letter dated 22nd September 2006 and have asked for compliance to the observations made in the said letter.

We would like to state that we have not received the said letter dated 22nd September 2006. We request you to kindly send us the same so that necessary action can be taken accordingly.

Thanking you,

Yours faithfully,
For Gwalior Jhansi Expressways Limited

H. S. Kohli
Authorized Signatory



Regd. Office : C-66, South Extension Part-II, New Delhi -1100 049
Phones: 2625-5835/ 6837/ 2625 2753 Fax: 2625 2386, 2625 2248

900571

*In div. May 14/07
letter dated 22/9/06
sent again by fax today
22/9/06
Manager*



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Shipping, Road Transport and Highways)

जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली-110 075

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दूरभाष / Phone: 91-11-25074100/250

फैक्स / Fax: 91-11-25093507 / 250

एक्स. / Extn.: 2223 / 2318 / 2468 /

NHA/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/MP-UP/NS-1/2006/1007

27-09-06

To

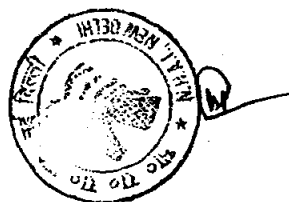
M/s Gwalior Jhansi Expressways Limited
C-66, South Extension Part-II
New Delhi : 110 049
Fax # 2625 2386 / 2625 2248

Sub : Design, Construction, Development, Finance, Operation and Maintenance of the work of rehabilitation and upgrading to 4 lane from km. 16.000 to km. 96.127 on NH-75 in States of Uttar Pradesh & Madhya Pradesh under NS Corridor (NHDP Phase-II) on Build, Operate and Transfer (BOT) basis. Package No. NS-1/BOT/MP-UP.

(Kind Attn : Shri H.S. Kohli, Authorized Signatory)

Sir,

This has reference to your letter no. DSCU/2K5/MR/1913 dated 26th September 2006 on the above subject. The copy of our letter dated 22nd September, 2006 has again been faxed today. A copy of the said letter is again enclosed.



Yours faithfully,

R.K. Singh
(R.K. Singh)
Manager (N-II)

Encl : As above

0/c

000574

Ref. No. : DSCL/2K5/ MR/1914
Date : 6th October 2006

The Manager (N-II),
National Highway Authority of India
G- 5 & 6, Sec - 10
New Delhi-110 075.

In date
Risingh
5/10/06
am (N-II)
Manager
6/10

Kind Attn : Mr. R. K. Singh

Sub : Design, Construction, Development, finance, Operation and Maintenance of the work of rehabilitation and upgrading to 4 lane from Km. 16.000 to Km. 96.127 on NH - 75 in the states of Uttar Pradesh & Madhya Pradesh under NS Corridor (NHDP Phase - II) on Build, Operate & Transfer (BOT) (Annuity) basis. Package no. NS-1/BOT/MP-UP

Dear Sir,

With reference to your letter nos. NHAI PH-II NHDP BOT (ANNUITY)/GM(N-II)/MP-UP/NS-I/2006/994 & NHAI PH-II NHDP BOT (ANNUITY)/GM(N-II)/MP-UP/NS-I/2006/1002 we are hereby submitting the following documents / information for your reference:

1. As regarding the shareholding in the SPV i.e. Gwalior Jhansi Expressways Limited, consequent upon transfer of shares from M/s D. S. Constructions Limited to M/s Apollo Enterprises Limited the shareholding pattern is now in line with the MoU submitted at the time of the submission of the bid. Relevant documents are enclosed herewith for your reference and record.
2. Board Resolution of the SPV authorizing the execution of the Concession Agreement.
3. We have already intimated our bankers for making the necessary modification and extension of the Bank Guarantees submitted towards performance security and the same will be submitted to you at the earliest.

Thanking you,
Yours faithfully,
For Gwalior Jhansi Expressways Limited



M. S. Narula

M. S. Narula
Authorized Signatory

Regd.: Office : C-66, South Extension Part-II, New Delhi -1100 049
Phones: 2625-5835/ 6837/ 2625 2753 Fax: 2625 2386, 2625 2248

000571

CERTIFIED TRUE COPY OF THE EXTRACTS OF THE MINUTES OF THE MEETING OF THE BOARD OF DIRECTORS OF GWALIOR JHANSI EXPRESSWAYS LIMITED HELD ON FRIDAY 6TH OCTOBER 2006

The chairman informed the Board that request for transfer of 42,500 shares of Rs. 10/- each from D. S. Constructions Limited to Apollo Enterprises Limited has been received.

The papers and the documents have been verified and are in order and related requirements have also been complied with.

In view of the memorandum of Understanding (MOU) executed between the consortium members of the consortium for the purpose of bidding for the "Design, Construction, Development, Finance, Operation and Maintenance of Km 16.000 to Km 96.127 on National Highway no. 75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh on BOT (Annuity) basis" and the above, the board after due discussions approved the transfer of 42500 Equity Shares of Rs. 10/- Each being 85% of the total paid up share capital of the company, from D.S. Constructions Limited, in favour of M/s Apollo Enterprises Limited.

CERTIFIED TRUE COPY
For Gwalior Jhansi Expressways Limited

Mohd. S. Faruk
Director

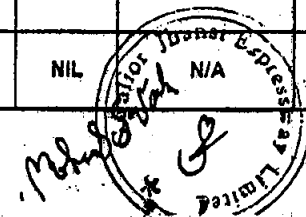
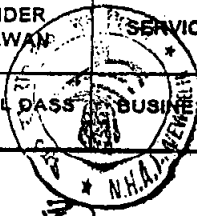


REGISTER OF MEMBERS

GWALIOR JHANSI EXPRESSWAYS LIMITED

NAME OF SHARE HOLDER	FATHER'S NAME	OCCUPATION	RESIDENTIAL ADDRESS/ REGD. OFF	NO. OF SHARES	FOLIO NO.	DATE OF ALLOTMENT	NO. OF SHARES TRFD.	NAME OF TRANSFEREE	FOLIO OF TRANSFEREE	DATE OF TRANSFER	BALANCE SHARE
NARINDER SINGH NARULA	LATE SHRI DARSHAN SINGH NARULA	BUSINESS	3. GOLF LINK, NEW DELHI - 110003	500 (FIVE HUNDRED ONLY)	N-1	7/7/2006	NIL	N/A	N/A	N/A	500
D.S. CONSTRUCTIONS LIMITED	N/A	BUSINESS	C-66, SOUTH EXTENSION PART - II, NEW DELHI -110049	47,000 (FORTY SEVEN THOUSAND ONLY)	D-1	7/7/2006	42500	APOLLO ENTERPRISES LIMITED	A-1	6/10/2006	4500
APOLLO ENTERPRISES LIMITED	N/A	BUSINESS	P.O. BOX NO. 81233, LOB-02, BG-02, JEBEL ALI, DUBAI-U.A.E.	42500 (FORTY TWO THOUSAND FIVE HUNDRED ONLY)	A-1	N/A	42500	N/A	N/A	6/10/2006	42500
VIRENDER SINGH NARULA	LATE SHRI DARSHAN SINGH NARULA	BUSINESS	3. GOLF LINK, NEW DELHI - 110003	500 (FIVE HUNDRED ONLY)	V-1	7/7/2006	NIL	N/A	N/A	N/A	500
HARVINDER SINGH KOHLI	LATE SHRI PRAHLAD SINGH KOHLI	SERVICE	APPT. NO. 10, 1 LINK ROAD JANGPURA, NEW DELHI - 110014	500 (FIVE HUNDRED ONLY)	H-1	7/7/2006	NIL	N/A	N/A	N/A	500
KINNIGOLI LAXMAN MALLYA	SHRI K DASU MALLYA	BUSINESS	ESSEL TOWERS MG ROAD, GURGAON - 122002	500 (FIVE HUNDRED ONLY)	K-1	7/7/2006	NIL	N/A	N/A	N/A	500
SURJEET SINGH DHAWAN	SHRI RAJINDER SINGH DHAWAN	SERVICE	FG-1/69C, LIG FLATS VIKAS PURI, NEW DELHI - 110018	500 (FIVE HUNDRED ONLY)	S-1	7/7/2006	NIL	N/A	N/A	N/A	500
OMPRAKASH	SHRI REMAL DAS	BUSINESS	C-5/17, MODEL TOWN-3, DELHI - 110009	500 (FIVE HUNDRED ONLY)	O-1	7/7/2006	NIL	N/A	N/A	N/A	500

300577



CERTIFIED TRUE COPY OF THE EXTRACTS OF THE MINUTES OF THE MEETING OF THE BOARD OF DIRECTORS OF GWALIOR JHANSI EXPRESSWAYS LIMITED HELD ON FRIDAY 6TH OCTOBER 2006 AT REGISTERED OFFICE OF THE COMPANY AT C-66, NDSE - II, NEW DELHI

TO EXECUTE CONCESSION AGREEMENT WITH NHAI

The Chairman informed the Board that the Company has been incorporated on 6th July 2006 as a Special Purpose Company to execute the project of "Design, Construction, Development, Finance, Operation and Maintenance of Rehabilitation and Upgradation to four lane from Km 16.000 to Km 96.127 on National Highway no. 75 (NH-75) in the States of Madhya Pradesh and Uttar Pradesh under North - South Corridor (NHDP Phase - II) on Build, Operate and Transfer BOT (Annuity) basis." awarded to the consortium of M/s DS Constructions Limited, India and M/s Apollo Enterprises Limited on 31st May 2006 by National Highway Authority of India (NHAI), Ministry of Road Transport and Highways, Government of India (MoRTH).

He informed the Board that as per the terms of award of the Contract the Company has to execute a Concession Agreement with National Highway Authority of India (NHAI) for inter alia the design, engineering, financing, procurement, construction, operation and maintenance of the said Project Highway on Annuity Basis for a semi annually amount of Rs. 52.29 Crores. He further informed the board that the Concession Period including the construction period of 30 month is 20 years, During the Company shall be entitled to receive annuity from NHAI

He also placed before the Board a draft Concession Agreement which was received with the RFQ documents duly initialed for the purpose of identification and requested the Board to authorize any of the Director to negotiate, finalize and execute the Concession Agreement on behalf of the Company.

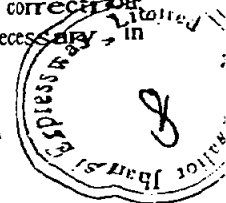
After due deliberations the following Resolution was passed:

"RESOLVED that the consent of the Board is hereby accorded to to negotiate, finalise and execute the Concession Agreement with National Highway Authority of India (NHAI) for inter alia the Design, Construction, Development, Finance, Operation and Maintenance of Rehabilitation and Upgradation to four lane from Km 16.000 to Km 96.127 on National Highway no. 75 (NH-75) in the States of Madhya Pradesh and Uttar Pradesh under North - South Corridor (NHDP Phase - II) on Build, Operate and Transfer BOT (Annuity) basis."

"RESOLVED FURTHER that Mr. Harvinder Singh Kohli and Mr. Mohinder Singh Narula, Directors of the Company be and are hereby authorised severally to negotiate, finalise, sign, seal, execute the Concession Agreement and to do all necessary acts, deeds or things as may be necessary to give effect to the aforesaid resolution inter-alia to carry out necessary correction, amendments, changes, additions, alterations, deletions and such other work as may be necessary in the Draft Concession Agreement and other papers/documents related thereto."



Regd.: Office : C-66, South Extension Part-II, New Delhi -1100 049
Phones: 2625-5835/ 6837/ 2625 2753 Fax: 2625 2386, 2625 2248



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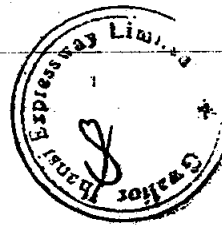
"RESOLVED FURTHER that the Common Seal of the Company be affixed on the executed Concession Agreement in the presence of any of the Directors of the Company in accordance with the provision of the Articles of Association of the Company."

"RESOLVED FURTHER that Mr. Harvinder Singh Kohli and Mr. Mohinder Singh Narula, Directors of the Company be and are hereby authorised to inform and deliver a certified true copy of this resolution to NHAI/MORTH."

CERTIFIED TRUE COPY
For Gwalior Jhansi Expressways Limited

Mohinder Singh Narula

Director



Regd.: Office : C-66, South Extension Part-II, New Delhi -1100 049
Phones: 2625-5835/ 6837/ 2625 2753 Fax: 2625 2386, 2625 2248

000579



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Shipping, Road Transport and Highways)

जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली-110 075

G-5 & 6, Sector-10, Dwarka, New Delhi-110075

दूरभाष / Phone: 91-11-25074100/250742

फैक्स / Fax: 91-11-25093507 / 250935

एक्स. / Extn.: 2223 / 2318 / 2468 / 25

NHA/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/MP-UP/NS-I/2006/1038

Date: 17.10.2006

To

M/s Gwalior Jhansi Expressways Limited
C-66, South Extension-II,
New Delhi-110 049.
Phone No.91-11-26262470
Fax No.91-11-26252386

Kind Attn.: Sh. M.S. Narula, Authorized Signatory

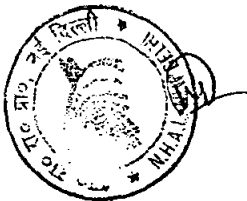
Sub:- Design, Construction, Development, Finance, Operation and Maintenance of the work of Rehabilitation and Upgrading to four lane from Km. 16.000 to Km. 96.127 on National Highway No. 75 (NH-75) in the States of Uttar Pradesh & Madhya Pradesh under North South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis - Package No. NS-I/BOT/MP-UP

Sir,

Please refer to your letter no. DSCL/2K5/MR/1914 dated 06.10.2006 on the subject mentioned above thereby submitting certain documents required for signing of Concession Agreement. The following observations are communicated :-

- (i) The Non-Lead Partner M/s D.S. Construction Ltd. which has undertaken to subscribe a minimum 15 % equity in the SPV is required to comply with the same. As per the documents provided to us M/s D.S. Construction Ltd seems to hold about 9 % of the paid up capital of the SPV.
- (ii) Board resolution of M/s D.S. Construction Ltd resolving to transfer 85 % of the total paid up share capital in favour of M/s Apollo Enterprises Ltd is required.
- (iii) Draft Concession Agreement incorporating the amendments to the RFP issued by NHA needs to be submitted by the SPV.

Compliance to the above mentioned observations and observations mentioned in NHA's letter dated 22.09.2006 may be submitted at the earliest.



0/0



Yours faithfully

(R.K. Singh)
Manager (N-I)

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भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Shipping, Road Transport and Highways)

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फैक्स / Fax 91-11-25093507 / 25093514

एक्स. / Extn. 2223 / 2318 / 2468 / 2553

NHAI/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/MP-UP/NS-I/2006/1049

Date: 26.10.2006

To

M/s Gwalior Jhansi Expressways Limited
C-66, South Extension-II,
New Delhi-110 049.
Phone No.91-11-26262470
Fax No.91-11-26252386

Kind Attn.: Sh. M.S. Narula, Authorized Signatory

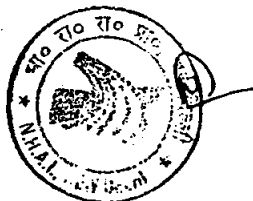
Sub:- Design, Construction, Development, Finance, Operation and Maintenance of the work of Rehabilitation and Upgrading to four lane from Km. 16.000 to Km. 96.127 on National Highway No. 75 (NH-75) in the States of Uttar Pradesh & Madhya Pradesh under North South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis – Package No. NS-1/BOT/MP-UP :- Notice to submit Compliance by 31.10.2006

Sir,

Please refer to NHAI's letter of even no. dated 22.09.2006 and 17.10.2006 on the subject mentioned above requiring you to submit the following documents which shall be required before the signing of the Concession Agreement.

- (i) Modification in recital "B" of the three Bank Guarantees submitted against Performance Security.
- (ii) Extension of time for the three Bank Guarantees submitted against Performance Security.
- (iii) Draft Concession Agreement incorporating the amendments to the RFP issued by NHAI.
- (iv) Board Resolution of M/s DS Constructions Limited resolving to transfer 85 % of the Total paid up share capital in favour of M/s Apollo Enterprises Limited.
- (v) Documents indicating that the non lead partner i.e. M/s DS Constructions Limited has subscribed a minimum of 15 % equity in the SPV (which is required as per the MoU submitted at the time of bidding)

However, till date no compliance has been received by NHAI in this regard. This is leading to delay in signing of the Concession Agreement which will further lead to delay in start / completion of the work. You are hereby required to submit the Compliance to NHAI's letters as mentioned above. These compliances should be submitted in NHAI's Headquarters latest by 31.10.2006 failing which action would be initiated as per relevant provisions of the RFP.



Yours faithfully,

(R.K. Singh)
Manager (N-II)

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699/0.
26/10/06

GWALIOR JHANSI EXPRESSWAYS LIMITED

Ref. No. : DSCL/2K5/ MR/1916
Date : 19th October, 2006

Mr. R.K. Singh
Manager (N-II)
National Highway Authority of India
(Ministry of Shipping, Road Transport and Highways)
G-5 & 6, Sector-10, Dwarka
New Delhi-110075

In det. May
corroborate
GM (N-II)
26/10/06
Manager (N-II)

Ref: Design, construct, develop, finance, operate, maintain, rehabilitate and upgrade the existing two lane road to four/six lane from km 16.00 (Gwalior) to km 96.127 (Jhansi) on National Highway-75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh under North-South Corridor (NHDP Phase-II) plan of National Highway Authority of India on Build, Operate and Transfer (BOT) (Annuity) basis.

Dear Sir,

In reference to your letter no. NHA/PH-II/NHDP/BOT(ANNUITY)/GM(NH-II)/MP-UP/NS-1/2006/1038 dated 17th October 2006, we hereby bring it to your notice that Gwalior Jhansi Expressways Limited is incorporated as a Public Limited Company defined under section 3(1) (iv) of Companies act-1956.

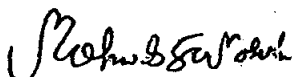
- (i) We further bring it to your notice that as per the provisions of Section 45 of Companies Act- 1956 the minimum members of a Public Limited Company should not fall below 7. Therefore in order to comply with the provisions of Companies Act 1956 minimum seven members are required.

We would further like to convey that in order find parity between Section 45 of companies Act 1956 and condition of 15% holding of Non lead partner, DS Constructions Limited and other six members are holding the shares in the capacity of DS and Associates which in totality comes out to be 15% of total shareholding.

- (ii) We further enclose certified true copy of resolution mentioned in point no. 2 of your above captioned letter which has already been submitted vide letter no. DSCL/2K5/MR/1901.
- (iii) We would also like to inform you the Draft Concession Agreement incorporating the amendments will be submitted to you without further delay.

We wish that you will find the same in order and take them on your record.

For Gwalior Jhansi Expressways Limited


Director
Encl : As above



Registered office: C-66, South Extension Part-II, New Delhi-110049
Telephone: 011-26255835/26256837/26252753
Fax: 011-26252386, 26252248

300582

D.S. CONSTRUCTIONS LTD.



(An ISO 9001 : 2000 certified company)
C-66, South Extension-II, New Delhi-110049
Phones : 2625-5835 / 6837 / 2625 2753
Fax : 2625 2386, 2625 2248
www.dsconstructions.com

EXTRACTS OF THE MINUTES OF THE MEETING OF THE BOARD OF DIRECTORS OF D.S.CONSTRUCTIONS LIMITED HELD ON FRIDAY THE 7TH DAY OF JULY, 2006 AT ITS REGISTERED OFFICE AT C-66, SOUTH EXTENSION, PART - II, NEW DELHI-110049.


"RESOLVED THAT Board be and hereby accord its consent to sell 42,500 fully paid up equity shares of Rs.10/- each of Gwalior - Jhansi Expressways Limited at its face value to M/s Apollo Enterprises Limited.

RESOLVED FURTHER THAT Mr. Mohinder Singh Narula, Managing Director of the Company be and is hereby authorized to sign, seal, execute necessary Transfer Deeds, Agreements, documents as may be necessary to give effect to the resolution and to do all such acts, deeds and things as may be considered necessary by him to get the shares transferred in the transferee's name.

RESOLVED FURTHER THAT Board be and hereby accord its consent to incur all expenditures relating to transfer of aforesaid shares in the name of the transferee including Stamp Duty as may be payable pursuant to Delhi Stamp Act and such other expenditures as may be necessary to incur.

RESOLVED FURTHER THAT the particulars of disinvestments shall be entered in the Register of Investments maintained and that the said register be produced before the next Board meeting of the Company for perusal of the members."

**Certified To Be True
For D.S. Constructions Limited**


Director/Company Secretary



00053 1

437/GM(NH-2)
31-10-06

Ref. No. : DSCL/2K5/ MR/1919
Date : 30th October, 2006

Mr. R.K. Singh
Manager (N-II)
National Highway Authority of India
(Ministry of Shipping, Road Transport and Highways)
G-5 & 6, Sector-10, Dwarka
New Delhi-110075

Submitted by Hand Con
May kindly see
Rajiv
31/10/20
Majumdar (H)
31

Ref: Design, construct, develop, finance, operate, maintain, rehabilitate and upgrade the existing two lane road to four/Six lane from km 16.00 (Gwalior) to km 96.127 (Jhansi) on National Highway-75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh under North-South Corridor (NHDP Phase-II) plan of National Highway Authority of India on Build, Operate and Transfer (BOT) (Annuity) basis.

Dear Sir,

In reference to your letter nos. NHA/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/MP-UP/NS-1/2006/1049 dated 26th October 2006 and NHA/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/MP-UP/NS-1/2006/1038 dated 17th October 2006, please refer to our letter number DSCL/2K5/MR/1916 dated 19th October, 2006 wherein we had submitted the following information / documents for your reference and records:

1. Certified true copy of the Board Resolution of D S Constructions Limited resolving to transfer 85% of the total paid up share capital in favour of M/s Apollo Enterprises Limited. (The same had been submitted earlier vide our letter no. DSCL/2K5/MR/1901).
2. As per the provisions of Section 45 of Companies Act - 1956 the minimum members of a Public Limited Company should not fall below 7. Therefore in order to comply with the provisions of Companies Act 1956 minimum seven members are required.

Our letter number DSCL/2K5/MR/1916 dated 19th October, 2006 along with copy of the Board Resolution of D S Constructions Limited is again enclosed for your reference.

In order to find parity between Section 45 of Companies Act 1955 and condition of 15% (Fifteen percent) holding of Non lead partner, DS Constructions Limited is holding 9% (Nine percent) and the other six members are holding 6% (Six percent) of the shares in the capacity of nominee shareholders and the beneficial interest is held by D S Constructions Limited. Therefore we would like to bring to your notice that DS Constructions Limited holds 15% (Fifteen percent) of total shareholding in the SPV.

We are also enclosing Form (I) and Form (II) under Section 187 (c) for each individual share holder and Form 22 B which proves that the other six share holders are holding shares in the capacity of Nominee share holders and the beneficial interest is held by D S Constructions Limited. Thus it is evident that the non lead partner D S Constructions Limited has subscribed a minimum of 15% equity in the SPV.

Registered office: C-66, South Extension Part-II, New Delhi-110049
Telephone: 011-26255835/26256837/26252753
Fax: 011-26252386, 26252248

000594

We would also like to inform you the Draft Concession Agreement incorporating the amendments will be submitted to you without further delay.

The three Bank Guarantees submitted against Performance Security are being modified and extended as required. There is some delay in the same due to some unavoidable matter and the same will be furnished to you by 15th November 2006.

For Gwalior Jhansi Expressways Limited

Mohd. S. Ghalib

Director

Encl: As above



Registered office: C-66, South Extension Part-II, New Delhi-110049

Telephone: 011-26255835/26256837/26252753

Fax: 011-26252386, 26252248

000585

FORM I

[See Rule 3(1)]

Declaration by the person referred to in Section 187-C (1) of the Companies Act, 1956 (1 of 1956)

To

Gwalior Jhansi Expresways Limited

C-66, South Extension, Part-II, New Delhi-110049

In Pursuance of sub Section (1) of Section 187-C of companies Act, 1956 (1 of 1956), I hereby declare that DS Constructions Limited holds the beneficial interest in 500 Equity Shares bearing Nos.47001-47500 which are entered in my name in the register of members of the company as the holder of the such shares. The particulars of such persons who hold the beneficial interest in the said shares are given below:

1.	Sl. No.	Name	Father's/ Husband's Name	Age	Occupation	Address	Nationality
	1	DS Constructions Limited	N/A	N/A	Business	C-66 , South Extension, New Delhi-110049	Indian Company

2. Nature of beneficial interest

Compliance of Section 45 of Companies Act-1956



3. Date of acquisition of beneficial interest

3rd October 2006

4. Reasons why the shares have not been registered in the name of the persons holding the beneficial interest in the register of the company.

To comply conditions of Section 45 of Companies Act-1956

5. Paid up value of such shares (s).

Rupees Ten per Share

Place: New Delhi

Date: 3rd October 2006



Signature of the person making the declaration.

Name: Harvinder Singh Kohli

Address: Apartment No. 6, 1 Link Road,
Jangpura Extension, New Delhi



900587

FORM I

[See Rule 3(1)]

Declaration by the person referred to in Section 187-C (1) of the Companies Act, 1956 (1 of 1956)

To

Gwalior Jhansi Expresways Limited

C-66, South Extension, Part-II, New Delhi-110049

In Pursuance of sub Section (1) of Section 187-C of companies Act, 1956 (1 of 1956), I hereby declare that DS Constructions Limited holds the beneficial interest in 500 Equity Shares bearing Nos.48001-48500 which are entered in my name in the register of members of the company as the holder of the such shares. The particulars of such persons who hold the beneficial interest in the said shares are given below:

1.	Sl. No.	Name	Father's/ Husband's Name	Age	Occupation	Address	Nationality
	1	DS Constructions Limited	N/A	N/A	Business	C-66, South Extension, New Delhi-110049	Indian Company

2. Nature of beneficial interest

To comply conditions of Section 43 of Companies Act-1956



88500

3. Date of acquisition of beneficial interest:

3rd October 2006

4. Reasons why the shares have not been registered in the name of the persons holding the beneficial interest in the register of the company.

To comply conditions of Section 45 of Companies Act-1956

5. Paid up value of such shares (s).

Rupees Ten per Share

Place: New Delhi

Date 3rd October 2006



Signature of the person making the declaration.

Name: Narinder Singh Narula

Address: 3, Golf Links, New Delhi-110003



000589

FORM I

[See Rule 3(1)]

Declaration by the person referred to in Section 187-C (1) of the Companies Act, 1956 (1 of 1956)

To

Gwalior Jhansi Expresways Limited

C-66, South Extension, Part-II, New Delhi-110049

In Pursuance of sub Section (1) of Section 187-C of companies Act, 1956 (1 of 1956), I hereby declare that DS Constructions Limited holds the beneficial interest in 500 Equity Shares bearing Nos.47501-48000 which are entered in my name in the register of members of the company as the holder of the such shares. The particulars of such persons who hold the beneficial interest in the said shares are given below:

1.	Sl. No.	Name	Father's/ Husband's Name	Age	Occupation	Address	Nationality
	1	DS Constructions Limited	N/A	N/A	Business	C-66 , South Extension, New Delhi-110049	Indian Company

2. Nature of beneficial interest

To Comply Provisions of Section 45 of Companies Act-1956

000590



3. Date of acquisition of beneficial interest

3rd October 2006

4. Reasons why the shares have not been registered in the name of the persons holding the beneficial interest in the register of the company.

To comply Provisions of Section 45 of Companies Act-1956

5. Paid up value of such shares (s).

Rupees Ten per Share

Place: New Delhi

Date: 3rd October 2006



Signature of the person making the declaration.

Name: Kinnigoli Laxman Mallya

Address: 204, IC-3, Essel Towers, M.G. Road,
Gurgaon-122002

900591



FORM I

[See Rule 3(1)]

Declaration by the person referred to in Section 187-C (1) of the Companies Act, 1956 (1 of 1956)

To

Gwalior Jhansi Expressways Limited

C-66, South Extension, Part-II, New Delhi-110049

In Pursuance of sub Section (1) of Section 187-C of companies Act, 1956 (1 of 1956), I hereby declare that DS Constructions Limited holds the beneficial interest in 500 Equity Shares bearing Nos 48301-49000 which are entered in my name in the register of members of the company as the holder of the such shares. The particulars of such persons who hold the beneficial interest in the said shares are given below:

I.	Sl. No.	Name	Father's/ Husband's Name	Age	Occupation	Address	Nationality
	1	DS Constructions Limited	N/A	N/A	Business	C-66, South Extension, New Delhi-110049	Indian Company

2. Nature of beneficial interest

To Comply Provisions of Section 45 of Companies Act-1956

900592



3. Date of acquisition of beneficial interest

3rd October 2006

4. Reasons why the shares have not been registered in the name of the persons holding the beneficial interest in the register of the company.

To comply Provisions of Section 45 of Companies Act-1956

5. Paid up value of such shares (s).

Rupees Ten per Share

Place: New Delhi

Date: 3rd October 2006

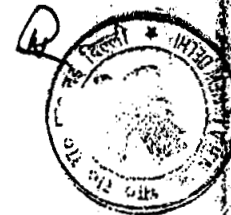


A handwritten signature in dark ink, appearing to read "Om Prakash".

Signature of the person making the declaration.

Name: Om Prakash

Address: C-5/17, Model Town-3, Delhi-110 009:



900593

FORM I

[See Rule 3(1)]

Declaration by the person referred to in Section 187-C (1) of the Companies Act, 1956 (1 of 1956)

To

Gwalior Jhansi Expresways Limited

C-66, South Extension, Part-II, New Delhi-110049

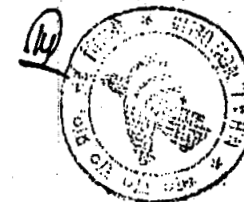
In Pursuance of sub Section (1) of Section 187-C of companies Act, 1956 (1 of 1956), I hereby declare that DS Constructions Limited holds the beneficial interest in 500 Equity Shares bearing Nos.49001-49500 which are entered in my name in the register of members of the company as the holder of the such shares. The particulars of such persons who hold the beneficial interest in the said shares are given below:

1.	Sl. No.	Name	Father's/ Husband's Name	Age	Occupation	Address	Nationality
	1	DS Constructions Limited	N/A	N/A	Business	C-66, South Extension, New Delhi-110049	Indian Company

2. Nature of beneficial interest

To Comply Provisions of Section 45 of Companies Act-1956

000594



3. Date of acquisition of beneficial interest

3rd October 2006

4. Reasons why the shares have not been registered in the name of the persons holding the beneficial interest in the register of the company.

To comply conditions of Section 45 of Companies Act-1956

5. Paid up value of such shares (s).

Rupees Ten per Share

Place: New Delhi

Date: 3rd October 2006



Signature of the person making the declaration.

Name: Surjeet Singh Dhawan

Address: Pkt FG-1/69C, LIG Flats, Vikas Puri,
New Delhi-110018

000595



FORM I

[See Rule 3(1)]

Declaration by the person referred to in Section 187-C (1) of the Companies Act, 1956 (1 of 1956)

To

Gwalior Jhansi Expressways Limited

C-66, South Extension, Part-II, New Delhi-110049

In Pursuance of sub Section (1) of Section 187-C of companies Act, 1956 (1 of 1956), I hereby declare that DS Constructions Limited holds the beneficial interest in 500 Equity Shares bearing Nos.49501-50000 which are entered in my name in the register of members of the company as the holder of the such shares. The particulars of such persons who hold the beneficial interest in the said shares are given below:

1.	Sl. No.	Name	Father's/ Husband's Name	Age	Occupation	Address	Nationality
	1	DS Constructions Limited	N/A	N/A	Business	C-66, South Extension, New Delhi-110049	Indian Company

2. Nature of beneficial interest

Compliance of Section 45 of Companies Act-1956

000596



3. Date of acquisition of beneficial interest

3rd October 2006

4. Reasons why the shares have not been registered in the name of the persons holding the beneficial interest in the register of the company.

To comply conditions of Section 45 of Companies Act-1956

5. Paid up value of such shares (s).

Rupees Ten per Share

Place: New Delhi

Date 3rd October 2006



Varinder Singh

Signature of the person making the declaration.

Name: Varinder Singh Narula

Address: 3, Golf Links, New Delhi-110003

000597



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FORM II

[See Rule 3(2)]

Declaration by the person referred to in sub section (2) or sub section (3) of Section 187-C of the Companies Act, 1956 (1 of 1956)

To

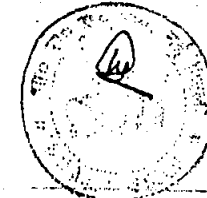
Gwalior Jhansi Expressways Limited

C-66, South Extension, Part-II, New Delhi-110049

In Pursuance of sub Section (2), sub Section (3) of Section 187-C of companies Act, 1956 (1 of 1956), I hereby declare that I hold /have obtained the beneficial interest in 500 Equity shares bearing nos. 47001-47500 and specify the following particulars, namely:-

1.	Sl. No.	Name	Father's/ Husband's Name	Age	Occupation	Address	Nationality
	1	Harvinder Singh Kohli	Late Shri Prahlad Singh Kohli	45	Service	Apartment No.10, 1 Link Road, Jangpura, New Delhi-110014	Indian

2. Date of allotment/ transfer of the shares in the name of the shares in the name of the person or persons referred above.
The shares were transferred on 3rd October 2006



000598

-15-

3. Date of acquisition of the beneficial interest.

The beneficial interest was acquired on 3rd October 2006

4. Particulars of the person from whom the beneficial interest is acquired. If the transferor of the beneficial interest is also a person who held any beneficial interest, state whether any declaration under sub section (2) of section 187-C had been made by him to the company. If so, the date of declaration (s) made by him.

Not Applicable

5. Nature of the beneficial interest.

To Comply Provisions of Section 45 of Companies Act-1956

6. Circumstances under which the shares were not registered in my name.

To Comply Provisions of Section 45 of Companies Act-1956

Place: New Delhi
Date: 3rd October 2006



Signature of the person making the declaration.

Name: For DS Constructions Limited

Narinder Singh Narula
Director



000599

FORM II

[See Rule 3(2)]

Declaration by the person referred to in sub section (2) or sub section (3) of Section 187-C of the Companies Act, 1956 (1 of 1956)

To

Gwalior Jhansi Expressways Limited

C-66, South Extension, Part-II, New Delhi-110049

In Pursuance of sub Section (2), sub Section (3) of Section 187-C of companies Act, 1956 (1 of 1956), I hereby declare that I hold /have obtained the beneficial interest in 500 Equity shares bearing nos.48001-48500 and specify the following particulars, namely:-

1.	Sl. No.	Name	Father's/ Husband's Name	Age	Occupation	Address	Nationality
	1	Narinder Singh Narula	Late Shri Darshan Singh Narula	64	Business	3, Golf Links, New Delhi- 110003	Indian

2. Date of allotment/ transfer of the shares in the name of the person or persons referred above.
The shares were transferred on 3rd October 2006



3. Date of acquisition of the beneficial interest.
The beneficial interest was acquired on 3rd October 2006

000600



4. Particulars of the person from whom the beneficial interest is acquired. If the transferor of the beneficial interest is also a person who held any beneficial interest, state whether any declaration under sub section (2) of section 187-C had been made by him to the company. If so, the date of declaration (s) made by him.

Not Applicable

5. Nature of the beneficial interest.

To Comply Provisions of Section 45 of Companies Act-1956

6. Circumstances under which the shares were not registered in my name.

To Comply Provisions of Section 45 of Companies Act-1956

Place: New Delhi

Date: 3rd October 2006



Signature of the person making the declaration.

Name: For DS Constructions Limited

Narinder Singh Nar
Director

000601



FORM II

[See Rule 3(2)]

Declaration by the person referred to in sub section (2) or sub section (3) of Section 187-C of the Companies Act, 1956 (1 of 1956)

To

Gwalior Jhansi Expressways Limited

C-66, South Extension, Part-II, New Delhi-110049

In Pursuance of sub Section (2), sub Section (3) of Section 187-C of companies Act, 1956 (1 of 1956), I hereby declare that I hold /have obtained the beneficial interest in 50% Equity shares bearing nos. 47501-48000 and specify the following particulars, namely:-

1.	Sl. No.	Name	Father's/ Husband's Name	Age	Occupation	Address	Nationality
	1	Kinnigoli Laxman Mallya	Shri K. Dasu Mallya	58	Business	204, IC-3, Essel Towers, M.G. Road, Gurgaon-122002	Indian

2. Date of allotment/ transfer of the shares in the name of the shares in the name of the person or persons referred above.
The shares were transferred on 3rd October 2006

000602

3. Date of acquisition of the beneficial interest.

The beneficial interest was acquired on 3rd October 2006

4. Particulars of the person from whom the beneficial interest is acquired. If the transferor of the beneficial interest is also a person who held any beneficial interest, state whether any declaration under sub section (2) of section 187-C had been made by him to the company. If so, the date of declaration (s) made by him.

Not Applicable

5. Nature of the beneficial interest.

To Comply Provisions of Section 45 of Companies Act-1956

6. Circumstances under which the shares were not registered in my name.

To Comply Provisions of Section 45 of Companies Act-1956

Place: New Delhi

Date: 3rd October 2006



Signature of the person making the declaration.

Name: For DS Constructions Limited

Narinder Singh Narula
Director



000603

FORM II

[See Rule 3(2)]

Declaration by the person referred to in sub section (2) or sub section (3) of Section 187-C of the Companies Act, 1956 (1 of 1956)

To

Gwalior Jhansi Expressways Limited

C-66, South Extension, Part-II, New Delhi-110049

In Pursuance of sub Section (2), sub Section (3) of Section 187-C of companies Act, 1956 (1 of 1956), I hereby declare that I hold /have obtained the beneficial interest in 500 Equity shares bearing nos. 48501-49000 and specify the following particulars, namely:-

1.	Sl. No.	Name	Father's/ Husband's Name	Age	Occupation	Address	Nationality
	1	Om Prakash	Late Sh. Remal Dass		Business	R/o C-5/17, Model Town- 3, Delhi-110 009	Indian

2. Date of allotment/ transfer of the shares in the name of the shares in the name of the person or persons referred above.
The shares were transferred on 3rd October 2006

3. Date of acquisition of the beneficial interest.
The beneficial interest was acquired on 3rd October 2006

300604

4. Particulars of the person from whom the beneficial interest is acquired. If the transferor of the beneficial interest is also a person who held any beneficial interest, state whether any declaration under sub section (2) of section 187 C had been made by him to the company. If so, the date of declaration (s) made by him.

Not Applicable

5. Nature of the beneficial interest.

To Comply Provisions of Section 45 of Companies Act-1956

6. Circumstances under which the shares were not registered in my name.

To Comply Provisions of Section 45 of Companies Act-1956

Place: New Delhi

Date: 3rd October 2006

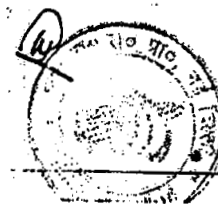


Signature of the person making the declaration.

Name: For DS Constructions Limited

Narinder Singh Narula
Director

000605



FORM II

[See Rule 3(2)]

Declaration by the person referred to in sub section (2) or sub section (3) of Section 187-C of the Companies Act, 1956 (1 of 1956)

To

Gwalior Jhansi Expresways Limited

C-66, South Extension, Part-II, New Delhi-110049

In Pursuance of sub Section (2), sub Section (3) of Section 187-C of companies Act, 1956 (1 of 1956), I hereby declare that I hold /have obtained the beneficial interest in 500 Equity shares bearing nos. 48501-49000 and specify the following particulars, namely:-

1.	Sl. No.	Name	Father's/ Husband's Name	Age	Occupation	Address	Nationality
	1	Om Prakash	Late Sh. Remal Dass		Business	R/o C-5/17, Model Town-3, Delhi-110 009	Indian

2. Date of allotment/ transfer of the shares in the name of the shares in the name of the person or persons referred above.
The shares were transferred on 3rd October 2006

3. Date of acquisition of the beneficial interest.
The beneficial interest was acquired on 3rd October 2006

000606

4. Particulars of the person from whom the beneficial interest is acquired. If the transferor of the beneficial interest is also a person who held any beneficial interest, state whether any declaration under sub section (2) of section 187-C had been made by him to the company. If so, the date of declaration (s) made by him.

Not Applicable

5. Nature of the beneficial interest.

To Comply Provisions of Section 45 of Companies Act-1956

6. Circumstances under which the shares were not registered in my name.

To Comply Provisions of Section 45 of Companies Act-1956

Place: New Delhi
Date: 3rd October 2006



Signature of the person making the declaration.

Name: For DS Constructions Limited

Narinder Singh Narula
Director



000607

FORM II

[See Rule 3(2)]

Declaration by the person referred to in sub section (2) or sub section (3) of Section 187-C of the Companies Act, 1956 (1 of 1956)

To

Gwalior Jhansi Expressways Limited

C-66, South Extension, Part-II, New Delhi-110049

In Pursuance of sub Section (2), sub Section (3) of Section 187-C of companies Act, 1956 (1 of 1956), I hereby declare that I hold /have obtained the beneficial interest in 500 Equity shares bearing nos. 49501-50000 and specify the following particulars, namely:-

1.	Sl. No.	Name	Father's/ Husband's Name	Age	Occupation	Address	Nationality
	1	Surjeet Singh Dhawan	Shri R.S. Dhawan	48	Service	Pkt FG-1/69C, LIG Flats, Vikas Puri, New Delhi-110018	Indian

2. Date of allotment/ transfer of the shares in the name of the shares in the name of the person or persons referred above.
The shares were transferred on 3rd October 2005



000608

3. Date of acquisition of the beneficial interest.

The beneficial interest was acquired on 3rd October 2006

4. Particulars of the person from whom the beneficial interest is acquired. If the transferor of the beneficial interest is also a person who held any beneficial interest, state whether any declaration under sub section (2) of section 187-C had been made by him to the company. If so, the date of declaration (s) made by him.

Not Applicable

5. Nature of the beneficial interest.

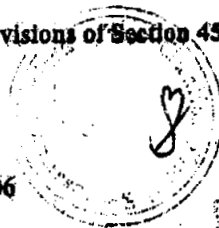
To Comply Provisions of Section 45 of Companies Act-1956

6. Circumstances under which the shares were not registered in my name.

To Comply Provisions of Section 45 of Companies Act-1956

Place: New Delhi

Date: 3rd October 2006



Signature of the person making the declaration.

Name: For DS Constructions Limited

Narinder Singh Narula
Director



000609

FORM II

[See Rule 3(2)]

Declaration by the person referred to in sub section (2) or sub section (3) of Section 187-C of the Companies Act, 1956 (1 of 1956)

To

Gwalior Jhansi Expresways Limited

C-66, South Extension, Part-II, New Delhi-110049

In Pursuance of sub Section (2), sub Section (3) of Section 187-C of companies Act, 1956 (1 of 1956), I hereby declare that I hold /have obtained the beneficial interest in 500 Equity shares bearing nos. 49501-50000 and specify the following particulars, namely:-

Sl. No.	Name	Father's/ Husband's Name	Age	Occupation	Address	Nationality
1	Varinder Singh Narula	Late Shri Darshan Singh Narula	66	Business	3, Golf Links, New Delhi-110003	Indian

2. Date of allotment/transfer of the shares in the name of the person or persons referred above.
The shares were transferred on 3rd October 2008

000610



3. Date of acquisition of the beneficial interest.

The beneficial interest was acquired on 3rd October 2006

4. Particulars of the person from whom the beneficial interest is acquired. If the transferor of the beneficial interest is also a person who held any beneficial interest, state whether any declaration under sub section (2) of section 187-C had been made by him to the company. If so, the date of declaration (s) made by him.

Not Applicable

5. Nature of the beneficial interest.

To Comply Provisions of Section 45 of Companies Act-1956

6. Circumstances under which the shares were not registered in my name.

To Comply Provisions of Section 45 of Companies Act-1956

Place: New Delhi

Date: 3rd October 2006



Signature of the person making the declaration.

Name: For DS Constructions Limited

Narinder Singh Narula
Director



000611

FORM 22B

Form of return to be filed with the Registrar

[Pursuant to section 187C (4) of
the Companies Act, 1956]

Note - All fields marked in * are to be mandatorily filled.

1(a). *Corporate identity number (CIN) of company

(b). Global location number (GLN) of company

2(a). Name of the company

(b). Address of the registered office of the company

1. Particulars of shares in respect of which the person whose name is entered in the register of members of the company as a holder of shares does not hold the beneficial interest in such shares

1(a). *Number of shares

(b). Distinctive number of shares *From *To

(c). *Kind of shares

(d). *Face value of shares (Rs.)

(e). *Paid-up value of shares (Rs.)

2(a). *Name of the person in whose name the above shares have been registered as holder in the register of members

(b). *Address Line I

Line II

(c). *City

(d). *State

(e). *Country

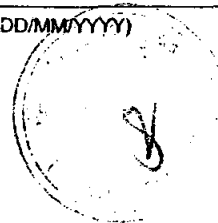
(f). *Pin code

(g). *Nationality

(h). *Father's name or Husband's name ☒ Father's name ☐ Husband's name

(i). *Date of entry of name in register (DD/MM/YYYY)

Page 1 of 7



219000

3(a). *Name of person who holds a beneficial interest in such shares

D S CONSTRUCTIONS LIMITED

(b). *Address Line I C-66, SOUTH EXTENSION, PART-II

Line II

(c). *City NEW DELHI

(d). *State Delhi-DL

(e). *Country IN

(f). *Pin code 110049

(g). *Nationality IN

4(a). *Date of declaration 03/10/2006 (DD/MM/YYYY)

(b). *Name of the declarants

GWALIOR JHANSI EXPRESWAYS LIMITED

(c). *Occupation BUSINESS

5. *Date of receipt of declaration by the company 03/10/2006 (DD/MM/YYYY)

II. Particulars of shares in respect of which the person whose name is entered in the register of members of the company as a holder of shares does not hold the beneficial interest in such shares

1(a). Number of shares

(b). Distinctive number of shares

From

To

(c). Kind of shares

(d). Face value of shares (Rs.)

(e). Paid-up value of shares (Rs.)

2(a). Name of the person in whose name the above shares have been registered as holder in the register of members

(b). Address Line I

Line II

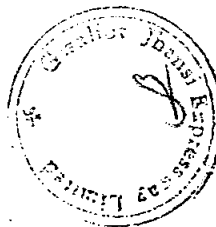
(c). City

(d). State

(e). Country

(f). Pin code

(g). Nationality



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000613

- 30 -

(h). Father's name or Husband's name ☒ Father's name ☐ Husband's name

(i). Date of entry of name in register (DD/MM/YYYY)

3(a). Name of person who holds a beneficial interest in such shares:

(b). Address Line I

Line II

(c). City

(d). State

(e). Country

(f). Pin code

(g). Nationality

4(a). Date of declaration (DD/MM/YYYY)

(b). Name of the declarants

(c). Occupation

5. Date of receipt of declaration by the company (DD/MM/YYYY)

III. Particulars of shares in respect of which the person whose name is entered in the register of members of the company as a holder of shares does not hold the beneficial interest in such shares

1(a). Number of shares

(b). Distinctive number of shares From

To

(c). Kind of shares

(d). Face value of shares (Rs.)

(e). Paid-up value of shares (Rs.)

2(a). Name of the person in whose name the above shares have been registered as holder in the register of members

(b). Address Line I

Line II

(c). City

(d). State

(e). Country



Page 3 of 7

319000

-31-

(f). Pin code

(g). Nationality

(h). Father's name or Husband's name ☒ Father's name ☐ Husband's name

(i). Date of entry of name in register (DD/MM/YYYY)

3(a). Name of person who holds a beneficial interest in such shares

(b). Address Line I

Line II

(c). City

(d). State

(e). Country

(f). Pin code

(g). Nationality

4 (a). Date of declaration (DD/MM/YYYY)

(b). Name of the declarants

(c). Occupation

5. Date of receipt of declaration by the company (DD/MM/YYYY)

IV. Particulars of shares in respect of which the person whose name is entered in the register of members of the company as a holder of shares does not hold the beneficial interest in such shares

1(a). Number of shares

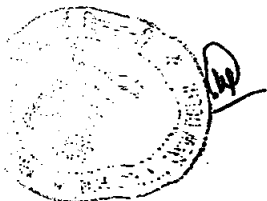
(b). Distinctive number of shares From To

(c). Kind of shares

(d). Face value of shares (Rs.)

(e). Paid-up value of shares (Rs.)

2(a). Name of the person in whose name the above shares have been registered as holder in the register of members



(b). Address Line I
Line II
(c). City
(d). State
(e). Country
(f). Pin code
(g). Nationality

(h). Father's name or Husband's name ☒ Father's name ☐ Husband's name

(i). Date of entry of name in register (DD/MM/YYYY)

3(a). Name of person who holds a beneficial interest in such shares

(b). Address Line I
Line II

(c). City
(d). State
(e). Country
(f). Pin code
(g). Nationality

4(a). Date of declaration (DD/MM/YYYY)

(b). Name of the declarants

(c). Occupation

5. Date of receipt of declaration by the company (DD/MM/YYYY)

V. Particulars of shares in respect of which the person whose name is entered in the register of members of the company as a holder of shares does not hold the beneficial interest in such shares

1(a). Number of shares

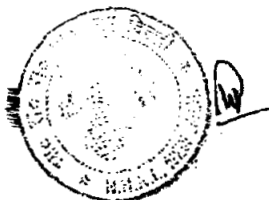
(b). Distinctive number of shares From

To

(c). Kind of shares

(d). Face value of shares (Rs.)

(e). Paid-up value of shares (Rs.)



2(a). Name of the person in whose name the above shares have been registered as holder in the register of members

[Redacted]

(b). Address Line I [Redacted]
Line II [Redacted]

(c). City [Redacted]

(d). State [Redacted]

(e). Country [Redacted]

(f). Pin code [Redacted]

(g). Nationality [Redacted]

(h). Father's name or Husband's name ☒ Father's name ☐ Husband's name

[Redacted]

(i). Date of entry of name in register [Redacted] (DD/MM/YYYY)

3(a). Name of person who holds a beneficial interest in such shares

[Redacted]

(b). Address Line I [Redacted]
Line II [Redacted]

(c). City [Redacted]

(d). State [Redacted]

(e). Country [Redacted]

(f). Pin code [Redacted]

(g). Nationality [Redacted]

4(a). Date of declaration [Redacted] (DD/MM/YYYY)

(b). Name of the declarants

[Redacted]

(c). Occupation [Redacted]

5. Date of receipt of declaration by the company [Redacted] (DD/MM/YYYY)

Attachments

1. *Declaration by person referred to in section 187C (1)

[Redacted]

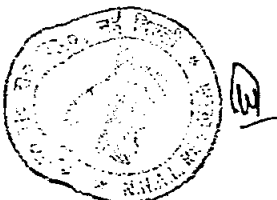
2. *Declaration by person referred to in section 187C (2) or 187C (3)

[Redacted]

3. Optional attachment(s) - if any

[Redacted]

Page 6 of 7



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-31-

List of attachments

Form I Surjeet Singh Dhawan.pdf
Form II Surjeet Singh Dhawan.pdf

Declaration

To the best of my knowledge and belief, the information given in this form and its attachments is correct and complete.
I have been authorised by the board of directors' resolution dated * 03/10/2006 (DD/MM/YYYY) to sign and submit this form

To be digitally signed by

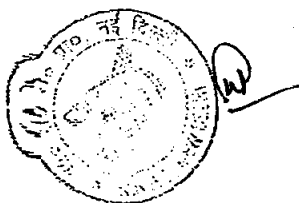
Managing director or director or manager or secretary of the company



For office use only:

This e-Form is hereby registered

Digital signature of the authorising officer



FORM 22B

Form of return to be filed with the Registrar

[Pursuant to section 187C (4) of
the Companies Act, 1956]

Note - All fields marked in * are to be mandatorily filled.

1(a). *Corporate identity number (CIN) of company

(b). Global location number (GLN) of company

2(a). Name of the company

(b). Address of the registered office of the company

1. Particulars of shares in respect of which the person whose name is entered in the register of members of the company as a holder of shares does not hold the beneficial interest in such shares

1(a). *Number of shares

(b). Distinctive number of shares *From *To

(c). *Kind of shares

(d). *Face value of shares (Rs.)

(e). *Paid-up value of shares (Rs.)

2(a). *Name of the person in whose name the above shares have been registered as holder in the register of members

(b). *Address Line I
Line II

(c). *City

(d). *State

(e). *Country

(f). *Pin code

(g). *Nationality

(h). *Father's name or Husband's name ☒ Father's name ☐ Husband's name

(i). *Date of entry of name in register (DD/MM/YYYY)

Page 1 of 7



300619

- 31 -

3(a). *Name of person who holds a beneficial interest in such shares

D S CONSTRUCTIONS LIMITED

(b). *Address Line I C-66, SOUTH EXTENSION, PART-II

Line II

(c). *City NEW DELHI

(d). *State Delhi-DL

(e). *Country IN

(f). *Pin code 110049

(g). *Nationality IN

4(a). *Date of declaration 03/10/2006 (DD/MM/YYYY)

(b). *Name of the declarants

GWALIOR JHANSI EXPRESWAYS LIMITED

(c). *Occupation BUSINESS

5. *Date of receipt of declaration by the company 03/10/2006 (DD/MM/YYYY)

II. Particulars of shares in respect of which the person whose name is entered in the register of members of the company as a holder of shares does not hold the beneficial interest in such shares

1(a). Number of shares 500

(b). Distinctive number of shares From 49501 To 50000

(c). Kind of shares EQUITY SHARES

(d). Face value of shares (Rs.) 10.00

(e). Paid-up value of shares (Rs.) 10.00

2(a). Name of the person in whose name the above shares have been registered as holder in the register of members

VARINDER SINGH NARULA

(b). Address Line I 3, GOLF LINKS

Line II

(c). City NEW DELHI

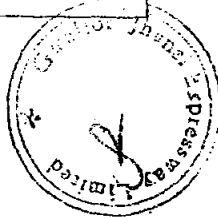
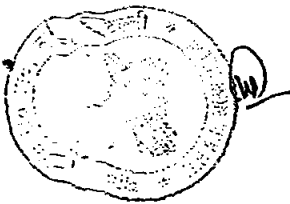
(d). State Delhi-DL

(e). Country IN

(f). Pin code 110003

(g). Nationality IN

Page 2 of 7



000620

(h). Father's name or Husband's name ☒ Father's name ☐ Husband's name

LATE SHRI DARSHAN SINGH NARULA

(i). Date of entry of name in register 03/10/2006 (DD/MM/YYYY)

3(a). Name of person who holds a beneficial interest in such shares

D S CONSTRUCTIONS LIMITED

(b). Address Line I C-66, SOUTH EXTENSION, PART-II

Line II

(c). City NEW DELHI

(d). State Delhi-DL

(e). Country IN

(f). Pin code 110049

(g). Nationality IN

4(a). Date of declaration 03/10/2006 (DD/MM/YYYY)

(b). Name of the declarants

GWALIOR JHANSI EXPRESWAYS LIMITED

(c). Occupation BUSINESS

5. Date of receipt of declaration by the company 03/10/2006 (DD/MM/YYYY)

III. Particulars of shares in respect of which the person whose name is entered in the register of members of the company as a holder of shares does not hold the beneficial interest in such shares

1(a). Number of shares 500

(b). Distinctive number of shares From 47001 To 47500

(c). Kind of shares EQUITY SHARES

(d). Face value of shares (Rs.) 10.00

(e). Paid-up value of shares (Rs.) 10.00

2(a). Name of the person in whose name the above shares have been registered as holder in the register of members

HARVINDER SINGH KOHLI

(b). Address Line I APARTMENT NO. 6,

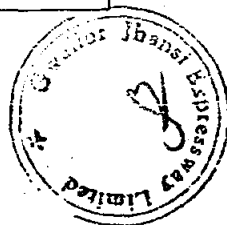
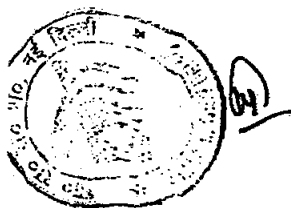
Line II 1, LINK ROAD, JANGPURA EXTENSION,

(c). City NEW DELHI

(d). State Delhi-DL

(e). Country IN

Page 3 of 7



900621

38-

(f). Pin code

(g). Nationality IN

(h). Father's name or Husband's name ☒ Father's name ☐ Husband's name

LATE SHRI PRAHLAD SINGH KOHLI

(i). Date of entry of name in register 03/10/2006 (DD/MM/YYYY)

3(a). Name of person who holds a beneficial interest in such shares

D S CONSTRUCTIONS LIMITED

(b). Address Line I C-66, SOUTH EXTENSION, PART-II

Line II

(c). City DELHI

(d). State Delhi-DL

(e). Country IN

(f). Pin code 110049

(g). Nationality IN

4 (a). Date of declaration 03/10/2006 (DD/MM/YYYY)

(b). Name of the declarant

GWALIOR JHANSI EXPRESWAYS LIMITED

(c). Occupation BUSINESS

5. Date of receipt of declaration by the company 03/10/2006 (DD/MM/YYYY)

IV. Particulars of shares in respect of which the person whose name is entered in the register of members of the company as a holder of shares does not hold the beneficial interest in such shares

1(a). Number of shares 500

(b). Distinctive number of shares From 47501 To 48000

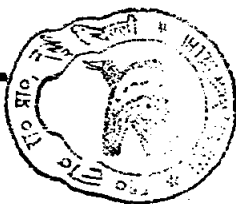
(c). Kind of shares EQUITY SHARES

(d). Face value of shares (Rs.) 10.00

(e). Paid-up value of shares (Rs.) 10.00

2(a). Name of the person in whose name the above shares have been registered as holder in the register of members

KINNIGOLI LAXMAN MALLYA



(b). Address Line I 204, IC-3, Essel Towers, M.G. Road,
Line II
(c). City Gurgaon
(d). State Haryana-HR
(e). Country IN
(f). Pin code 122002
(g). Nationality IN

(h). Father's name or Husband's name ☒ Father's name ☐ Husband's name

Shri K. Dasu Mallia

(i). Date of entry of name in register 03/10/2006 (DD/MM/YYYY)

3(a). Name of person who holds a beneficial interest in such shares

D S CONSTRUCTIONS LIMITED

(b). Address Line I C-66, SOUTH EXTENSION, PART-II
Line II

(c). City DELHI
(d). State Delhi-DL
(e). Country IN
(f). Pin code 110049
(g). Nationality IN

4(a). Date of declaration 03/10/2006 (DD/MM/YYYY)

(b). Name of the declarants

GWALIOR JHANSI EXPRESWAYS LIMITED

(c). Occupation BUSINESS

5. Date of receipt of declaration by the company 03/10/2006 (DD/MM/YYYY)

V. Particulars of shares in respect of which the person whose name is entered in the register of members of the company as a holder of shares does not hold the beneficial interest in such shares

1(a). Number of shares 500

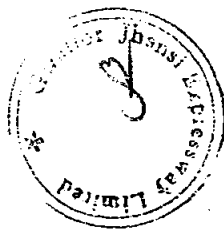
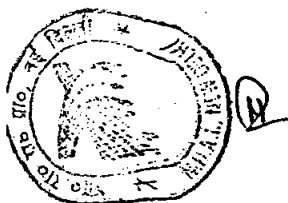
(b). Distinctive number of shares From 48501 To 49000

(c). Kind of shares EQUITY SHARES

(d). Face value of shares (Rs.) 10.00

(e). Paid-up value of shares (Rs.) 10.00

Page 5 of 7



900623 -40

2(a). Name of the person in whose name the above shares have been registered as holder in the register of members

OM PRAKASH

(b). Address Line I C-5/17, Model Town-3

Line II

(c). City DELHI

(d). State Delhi-DL

(e). Country IN

(f). Pin code 110009

(g). Nationality IN

(h). Father's name or Husband's name ☐ Father's name ☐ Husband's name

Late Sh. Rimal Dass

(i). Date of entry of name in register 03/10/2006 (DD/MM/YYYY)

3(a). Name of person who holds a beneficial interest in such shares

D S CONSTRUCTIONS LIMITED

(b). Address Line I C-66, SOUTH EXTENSION, PART-II

Line II

(c). City DELHI

(d). State Delhi-DL

(e). Country IN

(f). Pin code 110049

(g). Nationality IN

4(a). Date of declaration 03/10/2006 (DD/MM/YYYY)

(b). Name of the declarants

GWALIOR JHANSI EXPRESWAYS LIMITED

(c). Occupation BUSINESS

5. Date of receipt of declaration by the company 03/10/2006 (DD/MM/YYYY)

Attachments

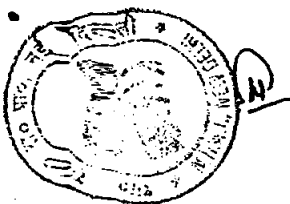
1. *Declaration by person referred to in section 187C (1)

2. *Declaration by person referred to in section 187C (2) or 187C (3)

3. Optional attachment(s) - if any



Page 6 of 7



000624

List of attachments

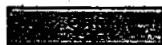
Form 6

Declaration

To the best of my knowledge and belief, the information given in this form and its attachments is correct and complete. I have been authorised by the board of directors' resolution dated * (DD/MM/YYYY) to sign and submit this form

To be digitally signed by

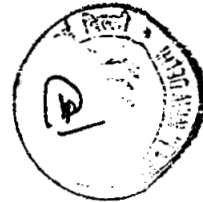
Managing director or director or manager or secretary of the company



For office use only:

This e-Form is hereby registered

Digital signature of the authorising officer



Gwalior Jhansi Expressways Limited

Ref. No. : DSCL/2K5/ MR/1922
Date : 4th November, 2006

Mr. R.K. Singh
Manager (N-II)
National Highway Authority of India
(Ministry of Shipping, Road Transport and Highways)
G-5 & 6, Sector-10, Dwarka
New Delhi-110075

*Received today. May
remedy use
R.K. Singh
6/11/2006*

*GM (N-II) (entire...)
GM (N-II) (I)
at
6/11*

Ref : Design, construct, develop, finance, operate, maintain, rehabilitate and upgrade the existing two lane road to four/six lane from km 16.00 (Gwalior) to km 96.127 (Jhansi) on National Highway-75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh under North-South Corridor (NHDP Phase-II) plan of National Highway Authority of India on Build, Operate and Transfer (BOT) (Annuity) basis.- Concession Agreement

Dear Sir,

With reference to the subject project, please find enclosed herewith following for your reference and record:

1. Draft Concession Agreement duly incorporating the amendments to the RFP issued by NHAI.
2. Bank Guarantees submitted towards performance security duly extended and modified, detailed as under:

BG no.	Amount	valid upto
0007BG00128406	Rs. 9.50 Crore	1 st October 2007
0007BG00128506	Rs. 2.58 Crore	1 st October 2007
0007BG00128606	Rs. 18.12 Crore	1 st April 2010

For Gwalior Jhansi Expressways Limited

[Signature]
Director
Encl: As above



Registered office: C-66, South Extension Part-II, New Delhi-110049
Telephone: 011-26255835/26256837/26252753
Fax: 011-26252386, 26252248

3006 26



दिल्ली DELHI

B 800137

This Stamp Paper forms an integral part of Amendment to the Bank Guarantee No. 0007BG00128406, Dated 04.11.2006

For ICICI Bank Limited

Authorised Signatory
9A, Connaught Place, N. Delhi-1

RUMA BHATTACHARYA PRAVEEN SHARMA
Manager Asstt. Manager S-733

8



300627

BANK GUARANTEE
ICICI Bank Limited
(Incorporated in India)

SF. No. 010040

ICICI Bank

BG Number: 0007BG00128406
Amendment Date: 4/11/2006

Amendment to Bank Guarantee No. 0007BG00128406 Dated 03.08.2006 for Rs. 9.50 Crores issued in favour of NHAI

To,
The National Highway Authority of India (NHAI)
G-5 & G-6, Sector-10,
Dwarka, New-Delhi-110045
Beneficiary's Name

As requested by our customer D S Constructions Ltd., we have amended the aforesaid bank guarantee as under:

1. Para B on page No. 1 & 2 of the Original Bank Guarantee
2. The validity of the Guarantee stands extended upto 01.10.2007
3. The claim period of the Guarantee stands extended upto 01.10.2007.

Para B on the Page No. 1 & 2, line 33 to line 35 of the Original Bank Guarantee should be read as follows:-

"In order to perform and discharge all its obligation concerning the "Project" the Concessionaire is required to give National Highways Authority of India (NHAI) a guarantee by a recognized Bank based in India in the sum of Rs.9.50 Crores (Indian Rupees Nine Crores Fifty Lacs Only) as security for compliance by the concessionaire with its obligations under the Concession Agreement upto and including Construction Period

All other terms and conditions remains unchanged. This amendment should be kept and read along with our Original Bank Guarantee No. 0007BG00128406 issued on 03.08.2006 and to be attached thereto.

Notwithstanding anything contained hereinabove :

- 1) Our liability under this bank guarantee shall not exceed Rs. 9.50 Crores (Rupees Nine Crores Fifty Lacs Only)

For ICICI Bank Limited

1/1

Authorized Signatory
9A, Conn. Place, N. Delhi-1

RUM B-HATTACHARYA PRAVEEN SHARMA
Manager Asstt Manager S-705

Regd. Office: Landmark, Race Course Circle, Vadodra-390 007. Phone : 0265-2340020 Fax: 0265-2341192
E-mail: corporatecare@icicibank.com

Regd. Office: "Landmark", Race Course Circle, Vadodra-390 007 Phone : 0265-2340020 Fax 0265-2341661
E-mail: corporatecare@icicibank.com SWIFT : ICIC IN BB

000628

ICICI Bank Limited
(Incorporated in India)

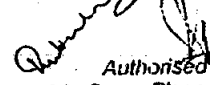
ICICI Bank

BG Number: 0007BG00128406
Amendment Date: 4/11/2006

39 2) This bank guarantee shall be valid upto 01.10.2007
40 3) We shall be liable to pay guaranteed amount under this bank guarantee or part
41 thereof only if we receive (if you serve upon us) a written claim or demand under this
42 guarantee on or before 01.10.2007, at ICICI Bank Ltd. 9 A, Connaught Place, New
43 Delhi 110001.

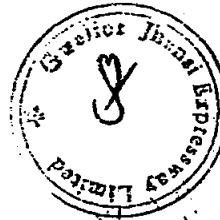
44
45
46 Date: 04.11.2006
47 Place: New Delhi

For ICICI Bank Limited


Authorised Signatory
9A, Conn. Place, N. Delh-1

RUMABHATTACHARYA
Manager B - 192

PRAVEEN SHARMA
Asstt. Manager S-705



BENEFICIARY

2/2

Regd. Office: Landmark, Race Course Circle, Vadodara-390 007. Phone : 0265-2340020 Fax: 0265-2341661
E-mail: corporatecare@icicibank.com

Regd. Office: "Landmark", Race Course Circle, Vadodara-390 007. Phone : 0265-2340020 Fax: 0265-2341661
E-mail: corporatecare@icicibank.com SWIFT : ICIC IN BB

300629



दिल्ली DELHI

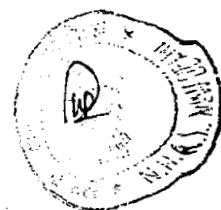
B 800135

This Stamp Paper forms an integral part of Amendment to the Bank Guarantee No.
0007BG00128506, Dated 04.11.2006

For ICICI Bank Limited

Authorized Signatory
9A, Conn. Place, N. Delhi-1

RUMA BHATTACHARJEE Asstt. Manager B-80
PRAVEEN SHARMA
Asstt. Manager B-705



000630

Sr. No. 019846

BANK GUARANTEE
ICICI Bank Limited
(Incorporated in India)

ICICI Bank

BG Number: 0007BG00128506
Amendment Date: 4/11/2006

Amendment to Bank Guarantee No. 0007BG00128506 Dated 03.08.2006 for Rs. 2 58 Crores issued in favour of NHAI

To,
The National Highway Authority of India (NHAI)
G-5 & G-6, Sector-10,
Bawana, New Delhi-110045
Beneficiary's Name

As requested by our customer D S Constructions Ltd., we have amended the aforesaid bank guarantee as under:

- 1. Para B on page No. 1 & 2 of the Original Bank Guarantee**
- 2. The validity of the Guarantee stands extended upto 01.10.2007**
- 3. The claim period of the Guarantee stands extended upto 01.10.2007.**

Para B on the Page No. 1 & 2, line 32 to line 37 of the Original Bank Guarantee should be read as follows:-

"In order to perform and discharge all its obligation concerning the "Project" the Concessionaire is required to give National Highways Authority of India (NHAI) a guarantee by a recognized Bank based in India in the sum of Rs.2.58 Crores (Indian Rupees Two Crores Fifty Eight Lacs Only) as security for compliance by the concessionaire with its obligations under the Concession Agreement upto and including Construction Period."

All other terms and conditions remains unchanged. This amendment should be kept and read along with our Original Bank Guarantee No. 0007BG00128506 issued on 03.08.2006 and to be attached thereto.

For ICICI Bank Limited

Notwithstanding anything contained hereinabove :

Authorised Signatory
24, Conn. Place, N. Delhi-1
RUWABH 32 PRAVEEN SHARMA
Manager Asstt. Manager S-705

1/1

Regd. Office: Landmark, Race Course Circle, Vadodra-390 007. Phone : 0265-2340020 Fax: 0265-2741601.
E-mail: corporatecare@icicibank.com

Regd. Office: "Landmark", Race Course Circle, Vadodra-390 007. Phone : 0265-2340020 Fax: 0265-2341661
E-mail: corporatecare@icicibank.com SWIFT : ICIC IN BB

000631

BANK GUARANTEE
ICICI Bank Limited
(Incorporated in India)

Tr. No. 019847

ICICI Bank

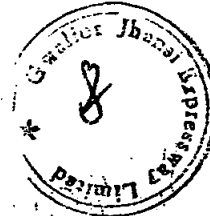
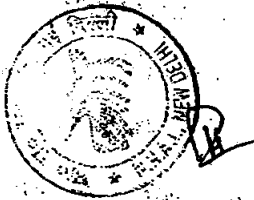
BG Number: 0007BG00128506
Amendment Date: 4/11/2006

- 38 1) Our liability under this bank guarantee shall not exceed Rs. 2.58 Crores (Rupees
39 Two Crores Fifty Eight Lacs Only)
40 2) This bank guarantee shall be valid upto 01.10.2007
41 3) We shall be liable to pay guaranteed amount under this bank guarantee or part
42 thereof only if we receive (if you serve upon us) a written claim or demand under this
43 guarantee on or before 01.10.2007 at ICICI Bank Ltd. 9 A, Connaught Place, New
44 Delhi 110001.
45
46

47 Date: 04.11.2006
48 Place: New Delhi

For ICICI Bank Limited

Authorized Signatory
9A, Connaught Place, N. Delhi-1
RUMABHATTACHARYA PRAVEEN SHARMA
Manager B-102 Asstt. Manager S-705



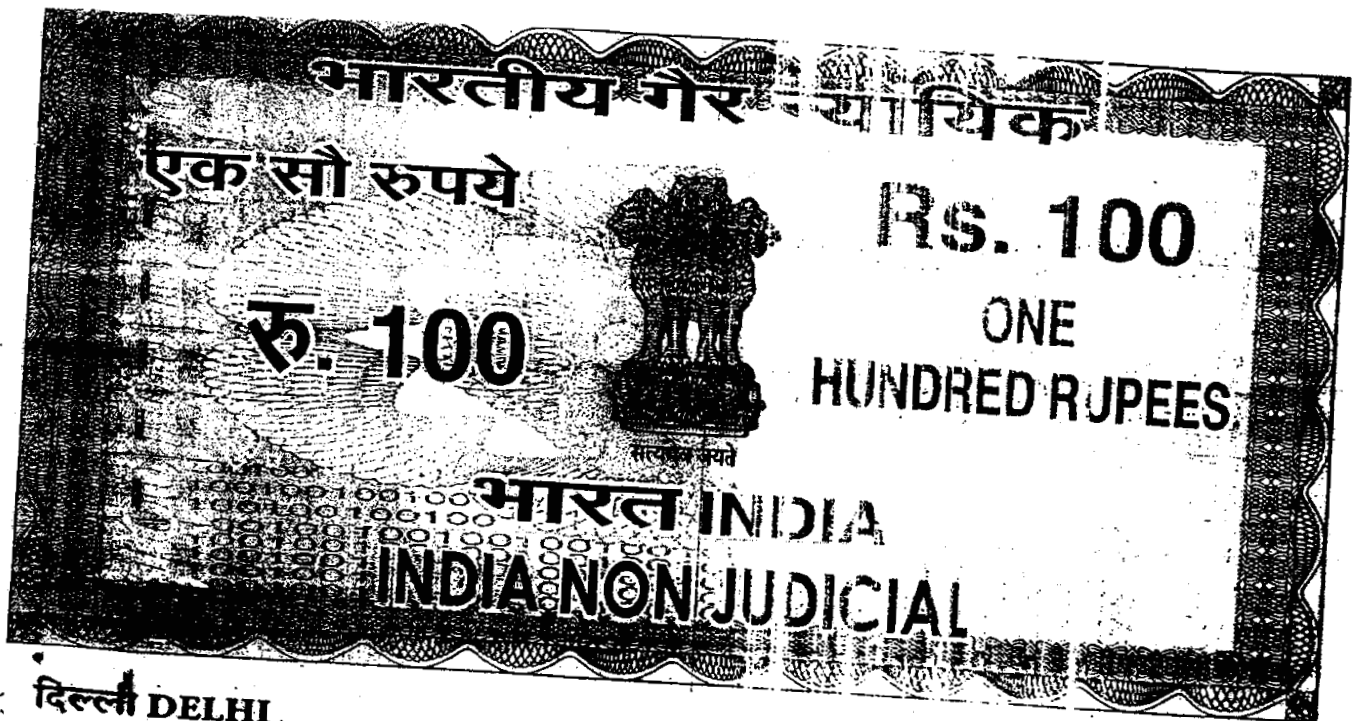
BENEFICIARY

2/2

Regd. Office: Landmark, Race Course Circle, Vadodara-390 007. Phone: 0265-2340020 Fax: 0265-2341661
E-mail: corporatcare@icicibank.com

Regd. Office: "Landmark", Race Course Circle, Vadodara-390 007. Phone: 0265-2340020 Fax: 0265-2341661
E-mail: corporatcare@icicibank.com SWIFT: ICIC IN BB

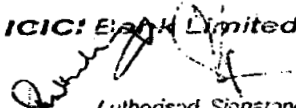
000632



B 800145

This Stamp Paper forms an integral part of Amendment to the Bank Guarantee No.
00078G00128606, Dated 04.11.2006

For ICICI Bank Limited


Authorised Signatory
9A, Conn. Place, N. Delhi-1

RUMA BHATTACHARYA
Manager

PRAVEEN SHARMA
Asstt. Manager S-105



0006 33

Sr. No. 019850

BANK GUARANTEE
ICICI Bank Limited
(Incorporated in India)

ICICI Bank

BG Number: 0007BG00128606
Amendment Date: 4/11/2006

Amendment to Bank Guarantee No. 0007BG00128606 Dated 03.08.2006 for Rs. 18.12 Crores issued in favour of NHAI

To:
The National Highway Authority of India (NHAI)
G-5 & G-6 Sector-10,
Dwarka, New-Delhi-110045
Beneficiary's Name

As requested by our customer D S Constructions Ltd., we have amended the aforesaid bank guarantee as under:

1. Para B on page No. 1 of the Original Bank Guarantee
2. The validity of the Guarantee stands extended upto 01.04.2010
3. The claim period of the Guarantee stands extended upto 01.04.2010.

Para B on the Page No. 1 i.e. line 33 to line 38 of the Original Bank Guarantee should be read as follows:-

In order to perform and discharge all its obligation concerning the "Project" the Concessionaire is required to give National Highways Authority of India (NHAI) a guarantee by a recognized Bank based in India in the sum of Rs.18.12 Crores (Indian Rupees Eighteen Crores Twelve Lacs Only) as security for compliance by the Concessionaire with its obligations under the Concession Agreement upto and including Construction Period.

All other terms and conditions remains unchanged. This amendment should be kept and read along with our Original Bank Guarantee No. 0007BG00128606 issued on 03.08.2006 and to be attached thereto.

Notwithstanding anything contained hereinabove :

- 1) Our liability under this bank guarantee shall not exceed Rs.18.12 Crores (Rupees Eighteen Crores Twelve Lacs Only)
- 2) This bank guarantee shall be valid upto 01.04.2010.
- 3) We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if we receive (if you serve upon us) a written claim or demand under this

For ICICI Bank Limited

1/1

Authorized Signatory
9A, Conn. Place N. Delhi-1

Registered Office: Landmark, Race Course Circle, Vadodara-390 007. Phone : 0265-2340020 Fax: 0265-2341661.
E-mail: corporatecard@icicibank.com

RUVA BHATTACHARYA
Manager 3-152

PRAVEEN SHARMA
Asstt. Manager S-706

Regd. Office: " Landmark", Race Course Circle, Vadodara-390 007 Phone : 0265-2340020 Fax 0265-2341661
E-mail: corporatecard@icicibank.com SWIFT : ICIC IN BB

900634

BANK GUARANTEE
ICICI Bank Limited
(Incorporated in India)

Sr No. 019851



BG Number: 0007BG00129306
Amendment Date: 4/11/2006

39 guarantee on or before 01.04.2010 at ICICI Bank Ltd. 9 A, Connaught Place, New
40 Delhi 110001.

41

42

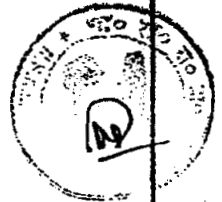
43 Date: 04.11.2006

44 Place: New Delhi

For ICICI Bank Limited

PRAVEEN SHARMA
Asstt. Manager S-705

RUMA BHATTACHARYA
Manager B-102



BENEFICIARY'S COPY

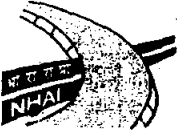
2/2

Regd. Office: Landmark, Race Course Circle, Vadodra-390 007. Phone : 0265-2340020 Fax 0265-2341661.
E-mail: corporatecare@icicibank.com

Regd. Office: "Landmark", Race Course Circle, Vadodra-390 007. Phone : 0265-2340020 Fax 0265-2341661
E-mail: corporatecare@icicibank.com SWIFT : ICIC IN BB

000635

***Further Amendments to
Performance Security submitted
by SPV***



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)
National Highways Authority of India

(Ministry of Shipping, Road Transport and Highways)

जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली-110 075

G-5 & 6, Sector-10, Dwarka, New Delhi-110075

दूरभाष / Phone: 91-11-25074100/25074200

फैक्स / Fax: 91-11-25093507 / 25093514

एक्स-11 xtn.: 2223 / 2318 / 2468 / 2553

NHA/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/MP-UP/NS-I/2006/1082

Date: 17.11.2006

To

M/s Gwalior Jhansi Expressways Limited
C-66, South Extension-II,
New Delhi-110 049.
Phone No.91-11-26262470
Fax No.91-11-26252386

Kind Attn.: Sh. M.S. Narula, Authorized Signatory

Sub:- Design, Construction, Development, Finance, Operation and Maintenance of the work of Rehabilitation and Upgrading to four lane from Km. 16.000 to Km. 90.127 on National Highway No. 75 (NH-75) in the States of Uttar Pradesh & Madhya Pradesh under North South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis – Package No. NS-I/BOT/MP-UP: Further Amendment to Bank Guarantees and amendments dated 04.11.2006 submitted against performance security.

Sir,

Please refer to your letter dated 04-08-2006 submitting therewith three Bank Guarantees against performance security and your letter dated 04.11.2006 submitting therewith amendments to the BGs as mentioned above. The BGs and amendments have been examined. Following further amendments are needed so that the BGs against performance security are as per requirement of the RFP

1. Original BG. No. 0007BG00128606 dated 03.08.2006 for Rs. 18.12 Crores

a) Clause 1 after para 13 of the BG may be modified as

“Our liability under this bank guarantee shall not exceed Rs.18.12 Crores only (Indian Rupees Eighteen Crores Twelve Lacs only)”

instead of

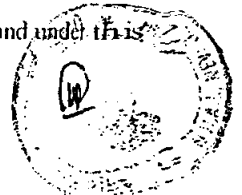
“Our aggregate liability under the bank Guarantee on account of multiple invocation or replenishment of the existing Guarantee or fresh guarantees shall not exceed Rs.18.12 Crores only (Indian Rupees Eighteen Crores Twelve Lacs only)”.

b) Clause 3 after para 13 of the BG may be modified as

“We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if you serve upon us a written claim or demand under this guarantee on or before 01.04.2010 at ICICI Bank Ltd. 9A, Connaught place, New Delhi-110001”

instead of

“No rights shall be accrued unless we receive (if you serve upon us) a written claim or demand under this Guarantee on or before 02.08.2009 at ICICI Bank 9A, Connaught Place, New Delhi-110001”



2. Original BG. No. 0007BG00128506 dated 03.08.2006 for Rs. 2.58 Crores

a) Clause 1 after para 13 of the BG may be modified as

"Our liability under this bank guarantee shall not exceed Rs.2.58 Crores only (Indian Rupees Two Crores Fifty Eight Lacs only)"

instead of

"Our aggregate liability under the bank Guarantee on account of multiple invocation or replenishment of the existing Guarantee or fresh guarantees shall not exceed Rs.2.58 Crores only (Indian Rupees Two Crores Fifty Eight Lacs only)"

b) Clause 3 after para 13 of the BG may be modified as

"We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if you serve upon us a written claim or demand under this guarantee on or before 02.10.2007 at ICICI Bank Ltd. 9A, Connaught place, New Delhi-110001"

instead of

"No rights shall be accrued unless we receive (if you serve upon us) a written claim or demand under this Guarantee on or before 02.03.2007 at ICICI Bank 9A, Connaught Place, New Delhi - 110 001"

3. Original BG. No. 0007BG00128406 dated 03.08.2006 for Rs. 9.50 Crores

a) Clause 1 after para 13 of the BG may be modified to

"Our liability under this bank guarantee shall not exceed Rs.9.50 Crores only (Indian Rupees Nine Crores Fifty Lacs only)"

instead of

"Our aggregate liability under the bank Guarantee on account of multiple invocation or replenishment of the existing Guarantee or fresh guarantees shall not exceed Rs.9.50 Crores only (Indian Rupees Nine Crores Fifty Lacs only)".

b) Clause 3 after para 13 of the BG may be modified as

"We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if you serve upon us a written claim or demand under this guarantee on or before 02.10.2007 at ICICI Bank Ltd. 9A, Connaught place, New Delhi-110001"

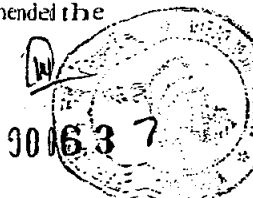
instead of

"No rights shall be accrued unless we receive (if you serve upon us) a written claim or demand under this Guarantee on or before 02.03.2007 at ICICI Bank 9A, Connaught Place, New Delhi - 110 001"

4. Amendment dated 04.11.2006 to BG No 0007BG00128606 for Rs. 18.12 Crores

a) The opening para of the amendments to the BG at line no. 12 and 13 of the amendment may be modified as

"At the request of the successful bidder and /or the Concessionaire, the Guarantor has amended the aforesaid Bank Guarantee as under"



instead of

"As requested by our customer DS Constructions Ltd, we have amended the aforesaid Bank Guarantee as under"

b) Clause 3 as mentioned in the amendment to the BG (at line no. 37,38,39 and 40 of the amendment) may be modified as

"We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if you serve upon us a written claim or demand under this guarantee on or before 01.04.2010 at ICICI Bank Ltd. 9A, Connaught place, New Delhi-110001"

instead of

"We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if we receive (if you serve upon us) a written claim or demand under this guarantee on or before 01.04.2010 at ICICI Bank Ltd., 9A, Connaught Place, New Delhi - 110 001"

5. Amendment dated 04.11.2006 to BG No 0007BG00128506 for Rs. 2.58 Crores

a) The opening para of the amendments to the BG at line no. 13 and 14 of the amendment may be modified as

"At the request of the successful bidder and /or the Concessionaire , the Guarantor has amended the aforesaid Bank Guarantee as under"

instead of

"As requested by our customer DS Constructions Ltd, we have amended the aforesaid Bank Guarantee as under"

b) Clause 3 as mentioned in the amendment to the BG (at line no. 41,42,43 and 44 of the amendment) may be modified as

"We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if you serve upon us a written claim or demand under this guarantee on or before 01.10.2007 at ICICI Bank Ltd. 9A, Connaught place, New Delhi-110001"

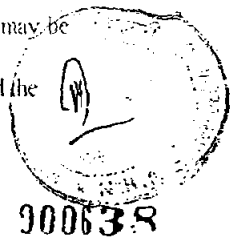
instead of

"We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if we receive (if you serve upon us) a written claim or demand under this guarantee on or before 01.10.2007 at ICICI Bank Ltd, 9A, Connaught Place, New Delhi - 110 001"

6 Amendment dated 04.11.2006 to BG No 0007BG00128406 for Rs. 9.50 Crores

a) The opening para of the amendments to the BG at line no. 12 and 13 of the amendment may be modified as

"At the request of the successful bidder and /or the Concessionaire , the Guarantor has amended the aforesaid Bank Guarantee as under"



instead of

"As requested by our customer DS Constructions Ltd, we have amended the aforesaid Bank Guarantee as under"

b) Clause 3 as mentioned in the amendment to the BG (at line no. 40, 41, 42 and 43 of the amendment) may be modified as

" We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if you serve upon us a written claim or demand under this guarantee on or before 01.10.2007 at ICICI Bank Ltd. 9A, Connaught place, New Delhi-110001"

instead of

"We shall be liable to pay guaranteed amount under this bank guarantee or part thereof only if we receive (if you serve upon us) a written claim or demand under this guarantee on or before 01.10.2007 at ICICI Bank Ltd., 9A, Connaught Place, New Delhi - 110 001"

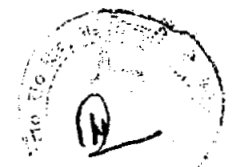
You are requested to submit amendments to the BGs as mentioned above incorporating the above modification suggested by NHAI.



Yours faithfully,

R.K. Singh

(R.K. Singh)
Manager (N-II)



O/c

GWALIOR JHANSI EXPRESSWAYS LIMITED

157/GN (N-2)
2/12/06

Ref. No. : DSCL/2K6/ MR/1935
Date : 29th November, 2006

Mr. R.K. Singh
Manager (N-II)
National Highway Authority of India
(Ministry of Shipping, Road Transport and Highways)
G-5 & 6, Sector-10, Dwarka
New Delhi-110075

Received. Jhansi Expressway
Rushu
11/12/06
In date
11/12/06
at
GNM-PS
Manager

Ref : Design, construct, develop, finance, operate, maintain, rehabilitate and upgrade the existing two lane road to four/Six lane from km 16.00 (Gwalior) to km 96.127 (Jhansi) on National Highway-75 (NH-75) in the States of Uttar Pradesh and Madhya Pradesh under North-South Corridor (NHDP Phase-II) plan of National Highway Authority of India on Build, Operate and Transfer (BOT) (Annuity) basis.

Dear Sir,

With reference to your letter no. NHAI/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/MP-UP/NS-1/2006/1082 dated 17th November 2006 we hereby submit the amendments to the three Bank Guarantees no. 007BG00128406, 007BG00128506 and 007BG00128606 each dated 03.08.2006 and their amendments dated 04.11.2006, duly incorporating all the necessary additional modifications required.

With Regards

For Gwalior Jhansi Expressways Limited

S. Rohit Singh
Director

Encl : As above

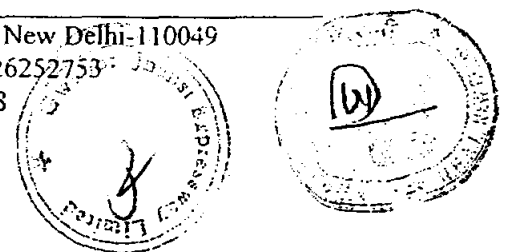
Cc to: -

1. Mr. A K Bajaj, Chief General Manager(NS), National Highways Authority of India, G-5 & 6, Sector - 10, Dwarka, New Delhi - 110 075. (For information).
2. Mr. M P Sharma, General Manager (N-II), National Highways Authority of India, G-5 & 6, Sector - 10, Dwarka, New Delhi - 110 075. (For information).

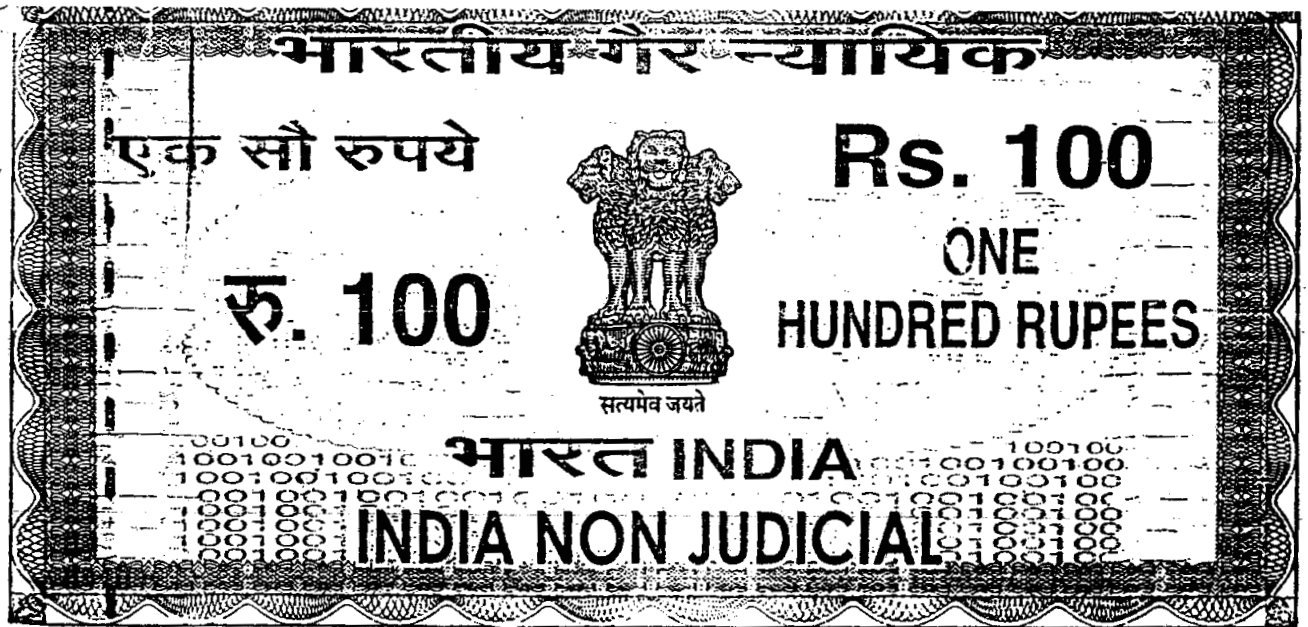
Registered office: C-66, South Extension Part-II, New Delhi-110049

Telephone: 011-26255835/26256837/26252753

Fax: 011-26252386, 26252248



3006 4 0




दिल्ली DELHI

B 903603

This Stamp Paper forms an integral part of Amendment to Bank Guarantee No.
0007BG00128406, Dated 03.08.2006

For ICICI Bank Limited


Authorised Signatory

SA, Comm. Facs, N. Delhi-1

RUMA BHATTACHARYA
Manager B-105

PRAVEEN SHARMA
Asstt. Manager S-705



900641

BANK GUARANTEE
ICICI Bank Limited
(Incorporated in India)

Sr. No. UZ0511



BG Number: 0007BG00128406
Amendment Date: 29.11.2006

1 Amendment to Bank Guarantee No. 0007BG00128406 Dated 03.08.2006 for Rs. 9.50
2 Crores issued in favour of NHAI

3
4 To,
5 The National Highway Authority of India (NHAI)
6 G-5 & G-6, Sector-10,
7 Dwarka, New-Delhi-110045
8 Beneficiary's Name
9

10 At the request of successful bidder and / or the concessionaire, the Guarantor has
11 amended the aforesaid Bank Guarantee as under:-

12
13 Page No. 1 of amendment dated 04.11.2006 Line No. 12 & 13
14 Clause No. 3 of the Original Bank Guarantee dated 03.08.2006 and page 1 & 2 of
15 amendment dated 04.11.2006 line no. 40 to 43
16 Page No. 3 of the Original Bank Guarantee dated 03.08.2006 NWC clause 1
17

18 Page No. 1 of amendment dated 04.11.2006 Line No. 12 & 13 of the Original Bank
19 Guarantee should be read as follows:-

20
21 "At the request of successful bidder and / or the concessionaire, the Guarantor has
22 amended the aforesaid Bank Guarantee as under:-

23
24 Amendment to Bank Guarantee No. 0007BG00128406 Dated 03.08.2006

25
26 Clause No. 3 of the Original Bank Guarantee dated 03.08.2006 and page 1 & 2 of
27 amendment dated 04.11.2006 line no. 40 to 43 should be read as follows:-

28
29 "We shall be liable to pay guaranteed amount under this Bank Guarantee or part
30 thereof only if you serve upon us a written claim or demand under this guarantee on
31 or before 01.10.2007 at ICICI Bank Limited, 9-A, Phelps Building, Connaught Place,
32 New-Delhi-110001"

33
34 Page No. 3 of the Original Bank Guarantee dated 03.08.2006 NWC clause 1 should be
35 read as follows:-

36
37 "Our liability under this Bank Guarantee shall not exceed Rs. 9.50 Crores only
38 (Rupees Nine Crores Fifty Lacs Only)"

For ICICI Bank Limited

1/1

Authorised Signatory

9A, Conn. Place, N. Delhi-1

RUMA BHATTACHARYA
Manager

PRAVEEN SHARMA
Asst. Manager S-705

Regd. Office: Landmark, Race Course Circle, Vadodra-390 007. Phone : 0265-2340070 Fax : 0265-2341661
E-mail: corporatcare@icicibank.com

Regd. Office: "Landmark", Race Course Circle, Vadodra-390 007. Phone : 0265-2340070 Fax : 0265-234 1661
E-mail: corporatcare@icicibank.com SWIFT : ICIC IN BB

0006 42

BANK GUARANTEE
ICICI Bank Limited
(Incorporated in India)

Sr. No. 020312

ICICI Bank

BG Number: 0007BG00128406
Amendment Date: 29.11.2006

39
40 All other terms and conditions remains unchanged. This amendment should be kept
41 and read along with our Original Bank Guarantee No. 0007BG00128406 issued on
42 03.08.2006 and amendment dated 04.11.2006 to be attached thereto.
43
44

45 **Notwithstanding anything contained hereinabove:-**

- 46
47 1. Our liability under this Bank Guarantee shall not exceed Rs. 9.50 Crores Only
48 (Rupees Nine Crores Fifty Lacs Only).
49
50 2. Our Liability under this Bank Guarantee shall be valid up to 01.10.2007
51
52 3. We shall be liable to pay guaranteed amount under this Bank Guarantee or
53 part thereof only if you serve upon us a written claim or demand under this
54 guarantee on or before 01.10.2007 at ICICI Bank Limited, 9-A, Phelps Building,
55 Connaught Place, New-Delhi-110001.

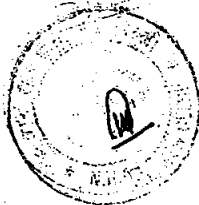
56
57 Date: 29.11.2006
58 Place: New Delhi
59

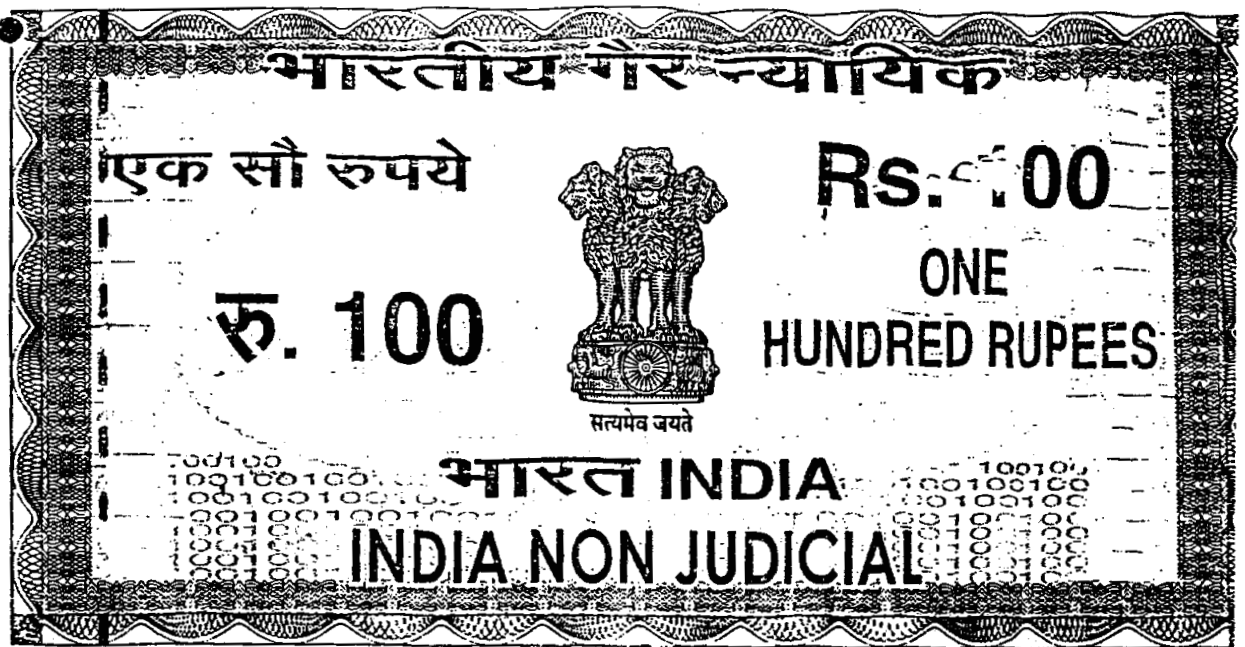
60 Seal of the bank _____
61 Name of the Bank _____
62 Signature _____
63 Name _____
64 Title _____
65 Date _____

For ICICI Bank Limited

Authorized Signatory
9A, Conn. Place, N. Delhi-11

RUMA BHATTACHARYA FRAVEEN SHARMA
Manager B-192 Asstt. Manager S-705





दिल्ली DELHI

B 903604

This Stamp Paper forms an integral part of Amendment to Bank Guarantee No.
0007BG00128506, Dated 03.08.2006

For ICICI Bank Limited

[Signature]
Authorized Signatory

9A, Conn. Place, N. Delhi-1

RUMA BHATTACHARYA
Manager B-102

PRAVEEN SHARMA
Asstt. Manager 8-705



000644

BANK GUARANTEE
ICICI Bank Limited
(Incorporated in India)



BG Number: 0007BG00128506
Amendment Date: 29.11.2006

1 Amendment to Bank Guarantee No. 0007BG00128506 Dated 03.08.2006 for Rs. 2.58
2 Crores issued in favour of NHAI

3
4 To,
5 The National Highway Authority of India (NHAI)
6 G-5 & G-6, Sector-10,
7 Dwarka, New-Delhi-110045
8 Beneficiary's Name

9
10 At the request of successful bidder and / or the concessionaire, the Guarantor has
11 amended the aforesaid Bank Guarantee as under:-

12
13 Page No. 1 of amendment dated 04.11.2006 Line No. 13 & 14
14 Clause No. 3 of the Original Bank Guarantee dated 03.08.2006 and page 1 & 2 of
15 amendment dated 04.11.2006 Line no. 41 to 44
16 Page No. 3 of the Original Bank Guarantee dated 03.08.2006 NWC clause 1

17
18 Page No. 1 of amendment dated 04.11.2006 Line No. 13 & 14 of the Original Bank
19 Guarantee should be read as follows:-

20
21 "At the request of successful bidder and / or the concessionaire, the Guarantor has
22 amended the aforesaid Bank Guarantee as under:-

23
24 Bank Guarantee No. 0007BG00128506 Dated 03.08.2006

25
26 Clause No. 3 of the Original Bank Guarantee dated 03.08.2006 and page 1 & 2 of
27 amendment dated 04.11.2006 line no. 41 to 44 should be read as follows:-

28
29 "We shall be liable to pay guaranteed amount under this Bank Guarantee or part
30 thereof only if you serve upon us a written claim or demand under this guarantee on
31 or before 01.10.2007 at ICICI Bank Limited, 9-A, Phelps Building, Connaught Place,
32 New-Delhi-110001"

33
34 Page No. 3 of the Original Bank Guarantee dated 03.08.2006 NWC clause 1 should be
35 read as follows:-

36
37 "Our liability under this Bank Guarantee shall not exceed Rs. 2.58 Crores only
38 (Rupees Two Crores Fifty Eight Lacs Only)"

For ICICI Bank Limited

Authorised Signatory
9A, Conn. Place, N. Delhi-1

Regd. Office: Landmark, Race Course Circle, Vadodra-390 007. Phone: 0265-2340020 Fax: 0265-2341661.
E-mail: corporateguar@icicibank.com

PRAVEEN SHARMA
Asstt. Manager S-705

RUMA BHATTACHARYA

E-152

Regd. Office: "Landmark", Race Course Circle, Vadodra-390 007. Phone: 0265-2340020 Fax: 0265-2341661
E-mail: corporateguar@icicibank.com SWIFT: ICIC IN BB

900645

BANK GUARANTEE
ICICI Bank Limited
(Incorporated in India)



BG Number: 0007BG00128506
Amendment Date: 29.11.2006

39
40 All other terms and conditions remains unchanged. This amendment should be kept
41 and read along with our Original Bank Guarantee No. 0007BG00128506 issued on
42 03.08.2006 and amendment dated 04.11.2006 to be attached thereto.
43
44

45 Notwithstanding anything contained hereinabove:-

- 46
47 1. Our liability under this Bank Guarantee shall not exceed Rs. 2.58 Crores Only
48 (Two Crores Fifty Eight Lacs Only).
49
50 2. Our Liability under this Bank Guarantee shall be valid up to 01.10.2007
51
52 3. We shall be liable to pay guaranteed amount under this Bank Guarantee or
53 part thereof only if you serve upon us a written claim or demand under this
54 guarantee on or before 01.10.2007 at ICICI Bank Limited, 9-A, Phelps Building,
55 Connaught Place, New-Delhi-110001.
56

57
58 Date: 29.11.2006
59 Place: New Delhi
60

61 Seal of the bank _____
62 Name of the Bank _____
63 Signature _____
64 Name _____
65 Title _____
66 Date _____

For ICICI Bank Limited

Authorized Signatory
9A, Connaught Place, N. Delhi-1

RUMA BHATTACHARYA
Manager

PRAVEEN SHARMA
Asstt. Manager S-705



भारतीय गैर न्यायिक

एक सौ रुपये

Rs. 100

₹. 100



सत्यमेव जयते

ONE
HUNDRED RUPEES

भारत INDIA

INDIA NON JUDICIAL

दिल्ली DELHI

B 903602

This Stamp Paper forms an integral part of Amendment to Bank Guarantee No.
0007BG00128606, Dated 03.08.2006

For ICICI Bank Limited

Authorised Signatory
9A, Conn. Place, N. Delhi-1
RUMA BHATTACHARYA PRAVEEN SHARMA
Manager B - 192 Asstt. Manager



000647

BANK GUARANTEE**ICICI Bank Limited**

(Incorporated in India)

**BG Number: 0007BG00128606****Issue Date: 29.11.2006**

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All other terms and conditions remains unchanged. This amendment should be kept and read along with our Original Bank Guarantee No. 0007BG00128606 issued on 03.08.2006 and amendment dated 04.11.2006 to be attached thereto.

Notwithstanding anything contained hereinabove:-

1. Our liability under this Bank Guarantee shall not exceed Rs. 18.12 Crores Only (Rupees Eighteen Crores Twelve Lacs Only).

2. Our Liability under this Bank Guarantee shall be valid up to 01.04.2010

3. We shall be liable to pay guaranteed amount under this Bank Guarantee or part thereof only if you serve upon us a written claim or demand under this guarantee on or before 01.04.2010 at ICICI Bank Limited, 9-A, Phelps Building, Connaught Place, New-Delhi-110001.

Date: 29.11.2006

Place: New Delhi

Seal of the bank _____

Name of the Bank _____

Signature _____

Name _____

Title _____

Date _____

For ICICI Bank Limited

Authorised Signatory
9A, Conn. Place, N. Delhi-1
PRAVEEN SHARMA
Asstt. Manager S-705
RUMA BHATTACHARYA
Manager B-132



2/2

Regd. Office: Landmark, Race Course Circle, Vadodra-390 007. Phone : 0265-2340020 Fax 0265-2341661
E-mail: corporatecare@icicibank.com

Regd. Office: "Landmark", Race Course Circle, Vadodra-390 007. Phone : 0265-2340020 Fax: 0265-2341661
mail: corporatecare@icicibank.com SWIFT : ICIC IN BB

300649