



CONCESSION AGREEMENT

BETWEEN

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(MINISTRY OF SHIPPING, ROAD TRANSPORT AND HIGHWAYS)

AND

MALAXMI HIGHWAY PRIVATE LIMITED

FOR

**DESIGN, CONSTRUCTION, DEVELOPMENT, FINANCE,
OPERATION AND MAINTENANCE OF KM 547.400
TO KM 596.750 ON NATIONAL HIGHWAY NO. 7
(NH-7) IN THE STATE OF MADHYA PRADESH
(PACKAGE NO: NS1/BOT/MP-2)**

ON

BOT (ANNUITY) BASIS

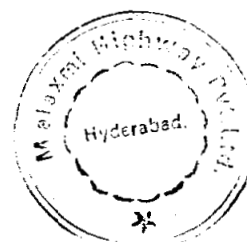
Volume I – Concession Agreement

September, 2006

Concession Agreement for Design, Construction, Development, Finance, Operation and Maintenance of km 547.400 to km 596.750 of National Highway No. 7 (NH-7) in the State of Madhya Pradesh on BOT (Annuity) Basis

Table of Contents

Sl. No	Description	Page No.
Volume I – Concession Agreement		
1.	Concession Agreement (Chapter I To VIII)	1 – 79
2.	Enclosure-I	80 – 81
3.	Schedule A : Site of the Project	82 – 87
4.	Schedule B : Scope of the Project	88 – 117
5.	Schedule C : Project Facilities	118 – 121
6.	Schedule D : Specifications and Standards	122 – 140
7.	Schedule E : Applicable Permits	141 – 142
8.	Schedule F : Performance Security	143 – 176
9.	Schedule G : Annuity Payment Schedule	177 – 177
10.	Schedule H : Project Completion Schedule	178 – 179
11.	Schedule I : Drawings	180 – 181
12.	Schedule J : Tests to be Conducted	182 – 191
13.	Schedule K : Completion Certificate	192 – 193
14.	Schedule L : Operation and Maintenance Requirements	194 – 227
15.	Schedule M : Cash Flow Projections	228 – 229
16.	Schedule N : Selection Criteria for Independent Consultant	230 – 233
17.	Schedule O : Terms of Reference for Independent Consultant	234 – 279
18.	Schedule Q : Escrow Account Agreement	280 – 297
19.	Schedule R : State Support Agreement	298 – 312
20.	Schedule S : Safety Requirements	313 – 324
21.	Schedule T : Criteria for List of Chartered Accountants	325 – 326
22.	Schedule U : Substitution Agreement	327 – 342
23.	Schedule V : Vesting Certificate	343 – 343
24.	Schedule W : Passenger Car Unit Factors	344 – 344
25.	Schedule X : Reporting and Record Requirements	345 – 353
26.	Addendum/Amendments and Enclosures and Additional Amendments to Technical Schedules	354 – 362
27.	Letter of Award (LoA) by NHAI	363 – 363
28.	Receipt of LoA	364 – 364
29.	Formation of SPV and Certificate of Incorporation	365 – 366
30.	Letter regarding submission of documents required for Signing of Concession Agreement	367 – 367
31.	Submission of Compliance List, Memorandum of Association and other Submissions by SPV/NBFA	368 – 409
34.	Undertaking By SPV not taking up of any activity except Project	411 – 411
35.	Letter regarding amendment to Compliance submitted by SPV and Signing of Concession Agreement	412 – 412
36.	Amendments submitted by SPV	413 – 419



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8.1	Disclaimer	25
PART III		
	Development and Operations	26
9	Performance Security	28
9.1	Performance Security	28
9.2	Appropriation of Performance Security	28
9.3	Release of Performance Security	29
10	Right of Way	30
10.1	The Site	30
10.2	Licence, Access and Right of Way	30
10.3	Procurement of the Site	31
10.4	Site to be free from Encumbrances	32
10.5	Protection of Site from encroachments	32
10.6	Special/temporary right of way	32
10.7	Access to the Authority and Independent Engineer	32
10.8	Geological and archaeological finds	32
11	Utilities, Associated Roads and Trees	34
11.1	Existing utilities and roads	34
11.2	Shifting of obstructing utilities	34
11.3	New utilities and roads	34
11.4	Felling of Trees	35
12	Construction of Project Facilities	36
12.1	Obligations prior to commencement of construction	36
12.2	Drawings	36
12.3	Completion of Project Facilities	37
12.4	Termination due to failure to complete Project Facilities	37
12.5	Monthly progress reports	38
12.6	Inspection	38
12.7	Tests	38
12.8	Delays during construction	39
12.9	Suspension of unsafe Construction Works	39
12.10	Completion Certificate	40
13	Entry into Commercial Service	41
13.1	Commercial Operation Date (COD)	41
13.2	Termination due to delay	41
14	Change of Scope	42
14.1	Change of Scope	42
14.2	Procedure for Change of Scope	42
14.3	Payment for Change of Scope	43
14.4	Restrictions on certain works	43
14.5	Power of the Authority to undertake works*	43

Contents

PART I

Preliminary

	Recitals	1
1	Definitions and Interpretation	4
1.1	Definitions	4
1.2	Interpretation	4
1.3	Measurements and arithmetic conventions	6
1.4	Priority of agreements, clauses and schedules	6

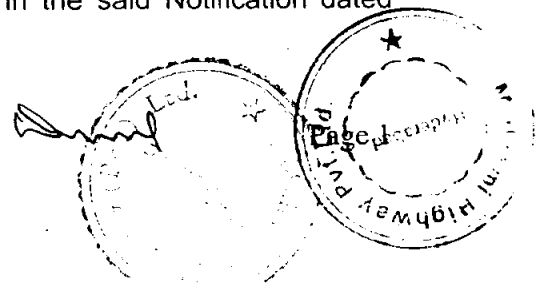
PART II

	The Concession	8
2	Scope of the Project	10
2.1	Scope of the Project	10
3	Grant of Concession	11
3.1	The Concession	11
4	Conditions Precedent	12
4.1	Conditions Precedent	12
4.2	Damages for delay	12
5	Obligations of the Concessionaire	14
5.1	Obligations of the Concessionaire	14
5.2	Obligations relating to Project Agreements	15
5.3	Obligations relating to Change in Ownership	16
5.4	Employment of foreign nationals	17
5.5	Employment of trained personnel	17
5.6	Branding of Project Highway	17
5.7	Facilities for physically challenged and elderly persons	18
6	Obligations of the Authority	19
6.1	Obligations of the Authority	19
6.2	Maintenance obligations prior to COD	20
6.3	Obligations relating to Competing Roads	20
7	Representations and Warranties	21
7.1	Representations and warranties of the Concessionaire	21
7.2	Representations and warranties of the Authority	23
7.3	Disclosure	24
8	Disclaimer	25

Table of Contents

Sl. No	Description	Page No.
Volume II - RFP		
1.	RFP Part- : Invitation for Proposal, Instructions to Bidders and Annexures	1 - 52
2.	Clarifications to Pre-Bid Queries	53 - 85
3.	Addendum / Amendment and Enclosures	86 - 107
4.	Additional Amendment	108 - 109
5.	Further Clarifications	110 - 110
6.	Cash Flow Projections at Bid Submission	111 - 112
Volume III – Drawings (Annexures to Schedules B and C)		
1.	Annexure I - Drawings for Road Works	1 - 93
2.	Annexure II - Drawings for Bridge Works	94 - 121
Volume IV – DPR		
1.	Part-I : Main Report	
2.	Part-II : Design Report	
3.	Part-III : Materials Report	
4.	Part-IV : Environment Management Plan	
5.	Part-V : Standards & Specifications	





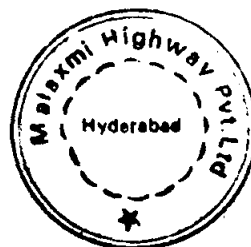
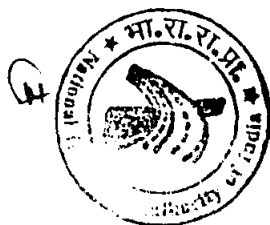
- B. NHAI had accordingly invited Proposals under a single stage process from bidders for qualification and prescribed the commercial terms and conditions for selection of a successful bidder under its Notice inviting Proposals No NHAI/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/NS-I/2006 dated 06.02.2006 ("the Tender Notice"), inter alia, for Design, Construction, Development, Finance, Operation and Maintenance on "from km 547/400 to km 596/750, covering 49.35 kms, on National Highway No. 7 " 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 M/s Nava Bharat Ferro Alloys Limited (NBFA) (now called M/s.Nava Bharat Ventures Limited) as a Sole Bidder for undertaking, inter alia, the work referred to in Recital 'A' above on BOT Annuity basis.
- D. After qualification of the sole bidder, 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/2006/104 dated 29.04.2006 ("LOA") to the Sole Bidder 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 Sole Bidder 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 Sole Bidder 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 Sole Bidder 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:

1. 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 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 Madhya Pradesh including regulations and rules made thereunder, and judgments, 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.

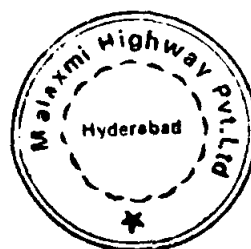
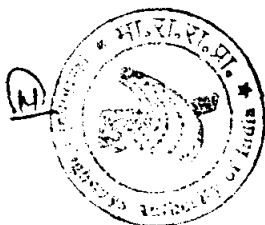
"Assured Availability" means, the availability of Carriageway assured by the Concessionaire for each Annuity Payment Period, computed as under:

$$AA = 4 \times LA$$

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 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. 5.00 Crores (Rupees Five Crores Only) in accordance with the Tender Notice and which is to remain in force until substituted by then Performance Security.

"Bidder" means the single entity/ 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.

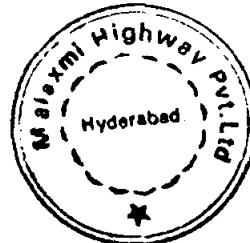
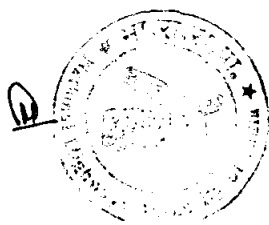
"Cash flow Projections" means cash flow projections set out in Schedule "M", submitted by the Sole Bidder as part of its Bid for the Project, which shall be used only to determine on any date the Discounted Value of Future Net Cash Flows.

"Carriageway" means the 4 lane highway comprised in the Mainline specified in 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 **Malaxmi Highway Private Limited** and its successors and substitutes and assigns expressly approved in writing by NHAI.

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

"Construction Period" means the period beginning from the Commencement 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.

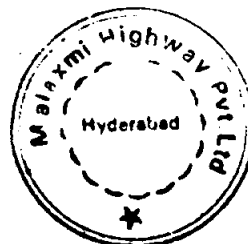
"Cure Period" means the period specified in this Agreement for curing any breach or default of any provision of this Agreement by the Party responsible for such breach or default and upon failing of which the Agreement may be terminated by the other Party.

"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

11



Page 5

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 Cash flows" 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 NHAI 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 NHAI for and in respect of the Termination of this Agreement as set forth in Article XXXIII.

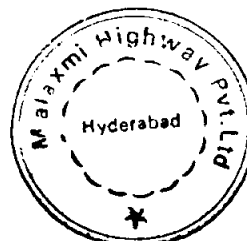
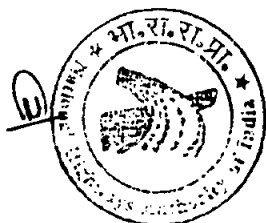
"Document" or "Documentation" means documentation printed or in written form, tapes, discs, drawings, computer programmes, writings, reports, photographs, cassettes, or expressed in any other written, audio or visual form.

"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



Page 6

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.

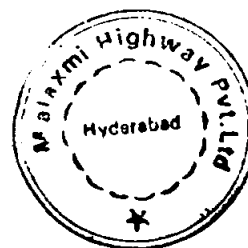
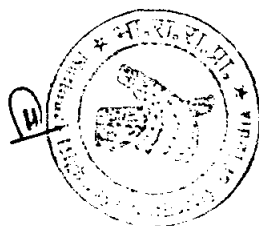
"GOI" means the Government of India.

"GOMP" means the Government of the State of 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, GOMP or any ministry, department, commission, board, authority, instrumentality or agency, under the control of GOI or GOMP 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.



Page 7

"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.

"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.

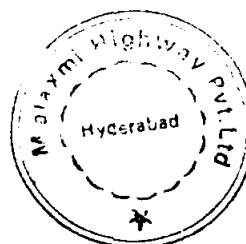
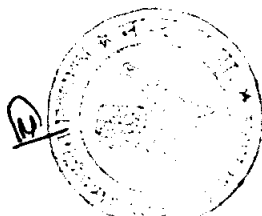
"Maintenance Programme" shall have the meaning ascribed to it in Clause 18.3.

"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.



Page 8

"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.

"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.

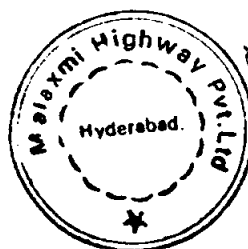
"Preliminary Notice" shall have the meaning attributed thereto in Clause 32.1.2.

"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 NHA 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 over bridges, 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-7 stretch from km 547.400 to km 596.750 and includes widening the existing 2 lane portion from km 547.400 to km 596.750, covering 49.350 km, on National Highway No. 7 (NH- 7) in the State of 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.

"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

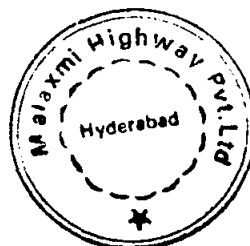
"RBI" means the Reserve Bank of India as constituted and existing under the Reserve Bank of India Act, 1946 including any statutory modification or replacement thereof, and its successors etc.

"RFP" shall mean the Request for Proposal dated 06-02-2006 for "Design, Construction, Development, Finance, Operation and Maintenance of Km. 547.400 to Km. 596.750 on National Highway No. 7 (NH-7) in the State of Madhya Pradesh 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.



Page 10

"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. **"State Support Agreement"** means the agreement to be entered into between the Government of 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 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.

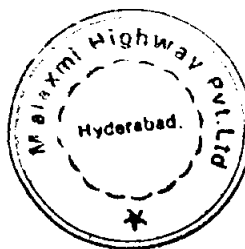
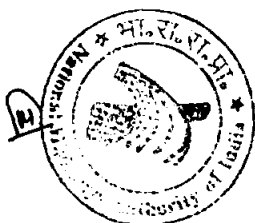
"Subordinated Debt" means any borrowings by the Concessionaire subordinated to the financial assistance provided by the Senior Lenders for meeting the Total Project Cost but does not include any interest thereon.

"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.



Page 11

"Termination Notice" means the communication issued in accordance with this Agreement by any one 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 263.17Crores as mentioned in the RFP.

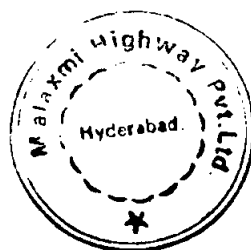
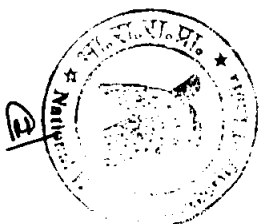
"Value Additions" shall have the meaning attributed to it in Clause 17.5.

"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,

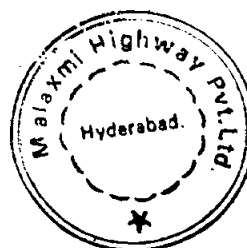
- (a) any reference to a statutory provision shall include such provision as is from time to time modified or re-enacted or consolidated so far as such modification or reenactment or consolidation applies or is capable of applying to any transactions entered into hereunder;
- (b) references to Indian 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, 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.



[Signature]
Page 13

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:

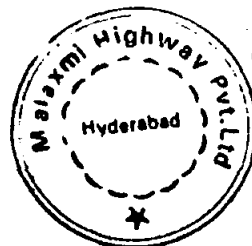
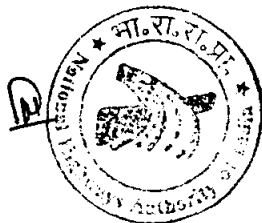
- (i) this Agreement
- (ii) all other documents forming part of this Agreement i.e. document at (i) above shall prevail over the documents at (ii) above

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 alongwith 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;
- (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.



CHAPTER – II GRANT OF CONCESSION

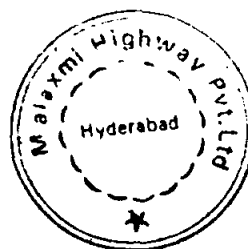
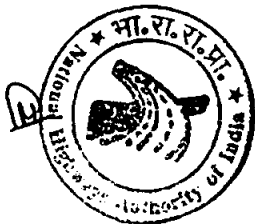
III. GRANT OF CONCESSION

- 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

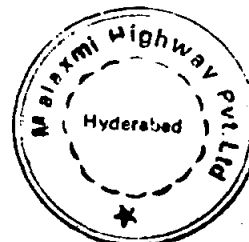
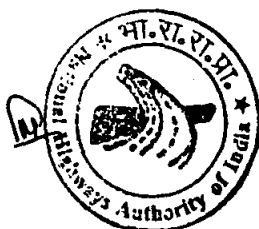
4.1 Conditions Precedent

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 Subclause (b) and (c) thereof, may be waived fully or partially by NHA at anytime in its sole discretion.

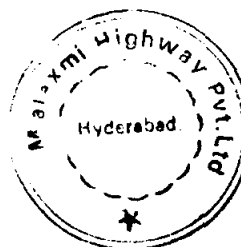
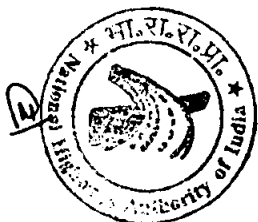
4.3 Obligation to Satisfy the Conditions Precedent.

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 NHA 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.

- 4.4 If the Conditions Precedent set forth in Clause 4.1 have not been satisfied on or before the Financial Close and the NHA has not waived, fully or partially, such conditions under Clause 4.1, NHA 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 NHA 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 NHA Bank Guarantee Nos 8520 and 8521 dated 11th July, 2006 and their amendments dated 26th September, 2006 and 23rd September 2006 respectively for Rs 5,26,34,000/- (INR Five Crores Twenty Six Lakhs and Thirty Four Thousand only) valid up to 31st July 2007 and Rs 7,89,51,000/- (INR Seven Crores Eighty Nine Lakhs and Fifty One Thousand only) valid up to 31st January 2010 respectively for a total amount of Rs. 13,15,85,000/- (INR thirteen crores fifteen lakhs and eighty five thousand only) being 5% of the Total Project Cost, from State Bank of Hyderabad – 500082, the Performance Security shall be reduced to Rs 7,89,51,000/- (Rupees seven crores eighty nine lakhs and fifty one thousand only) being 3% of the Total Project Cost after achievement of the Financial Close by the Concessionaire. The Performance Security shall be released by NHA 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 NHA 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, NHA 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 NHA such Performance Security failing which NHA 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.22.42 Crores (Rupees twenty two crores and forty two lakhs only) (the Annuity).

6.1 Payment of Annuity

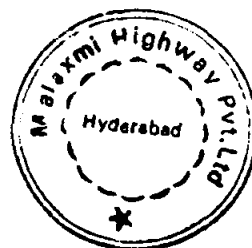
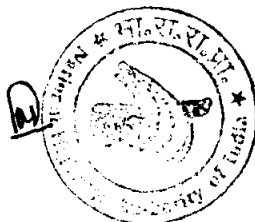
- (a) Subject to the provisions of Article 6 and any other applicable provisions of this Agreement, NHAI shall make Payment of Annuity to the Concessionaire on each Annuity Payment Date.
- (b) NHAI shall as security for payment of Annuity, provide to the Concessionaire a Letter of Credit from a Scheduled Bank in India for a sum equal to Rs 22.42 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:

$$B \text{ or } R = [(SPCD-COD) + X] * A / 180$$
 - (ii) If COD is achieved between two Annuity Payment Dates:

$$B \text{ or } R = [(PAPD-COD) + X] * A / 180$$
- Where,
 A = Annuity,
 B = Bonus,
 PAPD = Previous Annuity Payment Date.
 R = Reduction



[Signature]
Page 18

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;

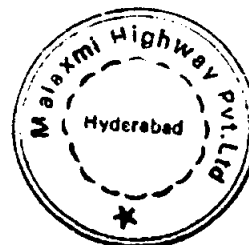
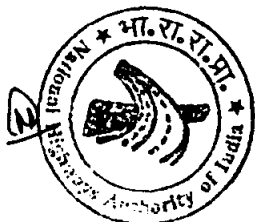
- (i) delay in delivery of the Project Site or any part thereof, as per Schedule 'H', by NHAI,
 - (ii) suspension of Construction Works or part thereof by NHAI or the Independent Consultant, for reasons not attributable to the Concessionaire,
 - (iii) Change of Scope Order pursuant to Article 17,
 - (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.
- e) The Bonus shall be paid or Reduction shall be effected on the first Annuity Payment Date occurring after COD.
- 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:

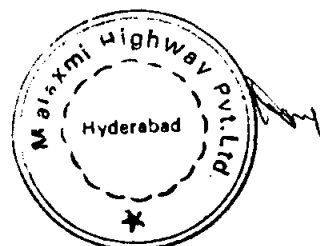
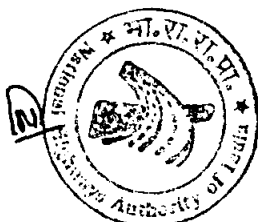
- (i) to the extent that the Non Availability is due to Political Events and /or events set out in Clause 18.15 the same shall not constitute Non Availability, and
 - (ii) to the extent that the Non Availability is due to Indirect Political Events, one fourth thereof shall only constitute Non Availability.
- 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

$$N = \sum_{i=1}^n Li \times hi$$

 Where,
 N = Non Availability during the previous Annuity Payment Period (in lane kilometer hours)
 n = total number of days of non-availability
 Li = length of non-available portion of the lane on each day (in kms) and
 hi = number of hours of non availability, on each day.
 Provided that if Li x hi 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 15th 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 at least one week prior to the relevant Annuity Payment Date.

b) Payment of Annuity

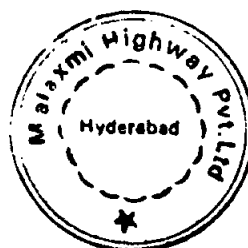
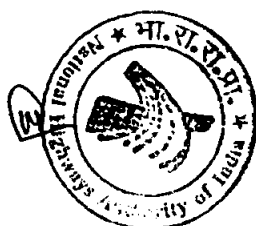
Upon receipt of the invoice together with recommendation for payment forwarded by the Independent Consultant, NHAI shall take all necessary steps and ensure payment of Annuity on the relevant Annuity Payment Date. The mode of payment of Annuity shall be as provided in Article 23.

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 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.

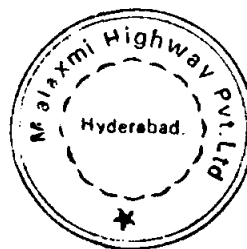
Provided further, that NHAI shall, in the event of any physical damage to the Project Facilities on account of such access or use, ensure that such damage is promptly repaired and the Project Facilities are restored at its cost and expenses.

(b) Advertisement/Hoarding etc.

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

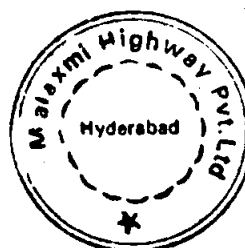


VIII CAPACITY AUGMENTATION

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

- 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 Net Cashflows.

VIII A ADDITIONAL HIGHWAY - Deleted



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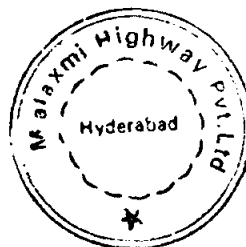
CHAPTER -III

OBLIGATIONS AND UNDERTAKINGS

IX. OBLIGATIONS OF THE CONCESSIONAIRE

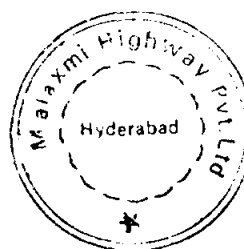
9.1 The Concessionaire shall at its own cost and expense observe, undertake, comply with and perform, in addition to and not in derogation of its obligations elsewhere setout in this Agreement, the following:

- (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';



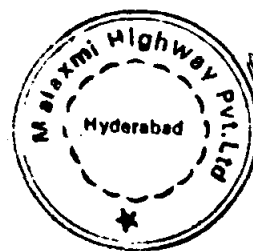
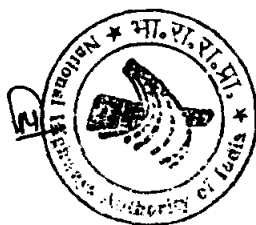
Page 24

- (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 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;
- (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;
- (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 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 Madhya Pradesh

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

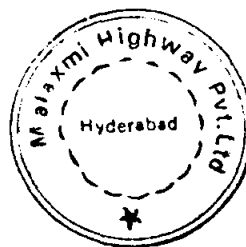
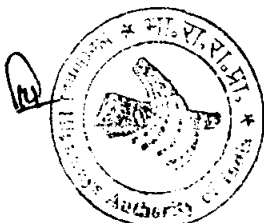
- (i) undertake the design, engineering, procurement and construction and financing of the Project Highway in accordance with this Agreement;
- (ii) operate and maintain the Project Highway at all times in conformity with this Agreement including but not limited to the Specifications and Standards set 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;
- (ii) finalise the design and detailed engineering basis;
- (iii) have requisite organisation and designate and appoint a Project 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:

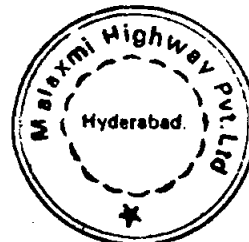
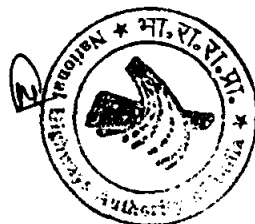
- (i) The Concessionaire shall prepare and submit with reasonable promptness and in such sequence as is consistent with the Project Completion Schedule, three copies each of all Drawings to NHAI and the Independent Consultant for review and comments.



Page 27

- (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 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



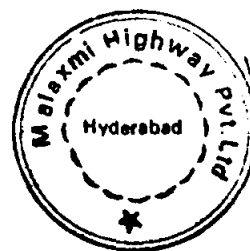
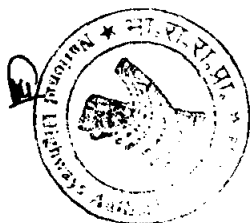
Page 28

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 NHAI, 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;
 - (v) Make reasonable endeavors in not allowing erection or placement of barriers by Government of Madhya Pradesh or any Governmental Agency



on the Project Highway except on account of any law and order situation or upon national security considerations;

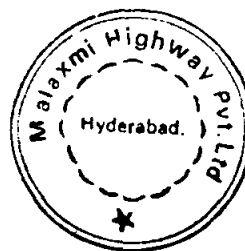
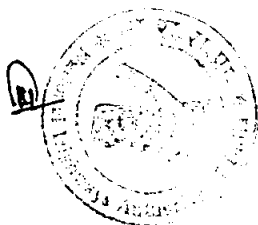
- (vi) enter into the State Support Agreement with the Concessionaire and the Government of Madhya Pradesh
- (vii) assist the Concessionaire in obtaining necessary assistance to regulate traffic on the Project Highway subject to and in accordance with the Applicable Laws;
- (viii) assist the Concessionaire in obtaining Police assistance from Government of 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.
- (xi) 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
- (xii) coordinate with Government of Madhya Pradesh authorities for completing the legal requirements and maintaining law and order during removal of encroachments by the Concessionaire.
- (xiii) 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

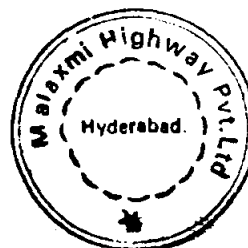
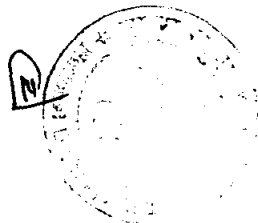
11.1 Representations and Warranties of the Concessionaire

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;

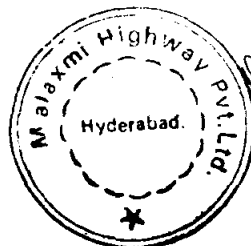
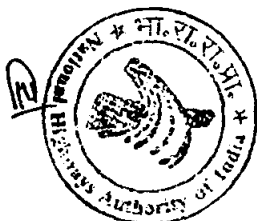


- (ii) It has full power and authority to execute, deliver and perform its obligations under this Agreement and to carry out the transactions contemplated hereby;
- (iii) It has taken all necessary corporate and other action under Applicable Laws and its constitutional documents to authorize the execution, delivery and performance of this Agreement;
- (iv) It has the financial standing and capacity to undertake the Project;
- (v) This Agreement constitutes its legal, valid and binding obligation enforceable against it in accordance with the terms hereof;
- (vi) It is subject to civil and commercial laws of India with respect to 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 Sole Bidder 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 single entity and their Associates 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.
- (xiv) Single entity 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 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 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 therefore in full force and effect in accordance with the provisions of this Agreement.



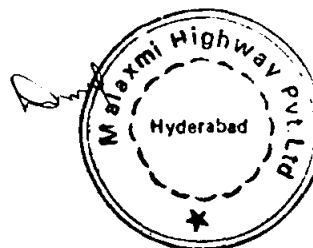
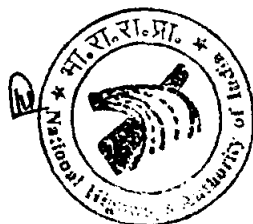
11.2 Representations and Warranties of NHAI.

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.

XII. DISCLAIMER

- 12.1 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, Specifications and Standards, Site and all the information provided by NHAI 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 NHAI shall not be liable for the same in any manner whatsoever to the Concessionaire, the Sole Bidder or their Associates.



CHAPTER – IV

PROJECT DEVELOPMENT AND OPERATIONS

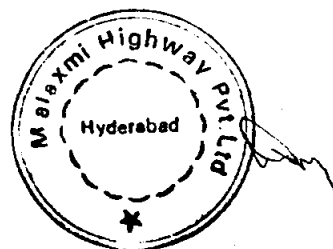
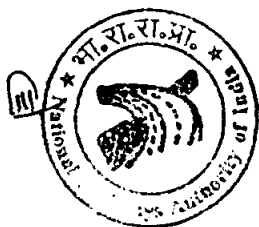
XIII. USE AND DEVELOPMENT OF THE SITE

- 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 licence 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 NHAJ free from all Encumbrances and without the Concessionaire

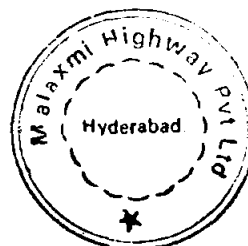


being required to make any payment to NHAI on account of any costs, expenses and charges for the use of such sites for the duration of the Concession Period save and except as otherwise expressly provided in this Agreement. NHAI shall procure for the Concessionaire access to the entire existing right-of-way 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

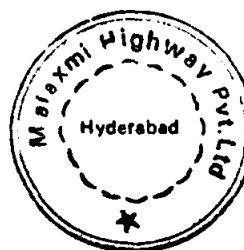


Page 35

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.

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 'O' 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



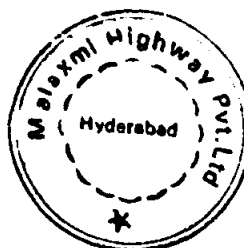
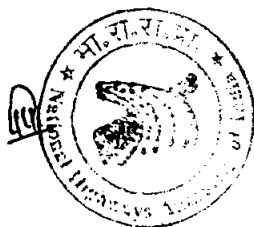
Independent Consultant about the steps it proposes to take to expedite progress and the period within which it shall achieve COD.

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.
- (c) 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



Page 37

(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

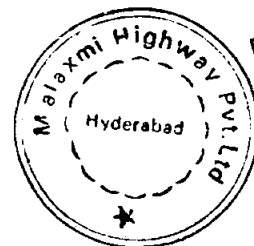
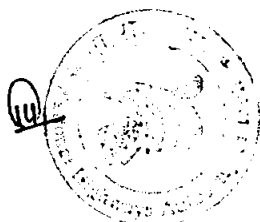
16.1 All Tests including but not limited to load test on structures shall be conducted in accordance with Schedule 'J' and the Applicable Laws and Applicable Permits. NHAI shall designate a NHAI Representative to witness and observe the Tests. All Tests shall be held in accordance with the schedule notified 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.

16.2 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.

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 RFP BOT (Annuity) (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.

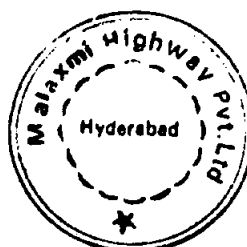
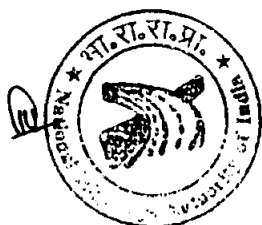
16.4 Upon the Independent Consultant determining the Tests to be successful in respect of any stretch referred to in Clause 16.3 having been satisfied that such stretch of the Project Highway can be legally, safely and reliably placed in commercial operations, the Independent Consultant shall forthwith 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 National Highways Authority of India 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.



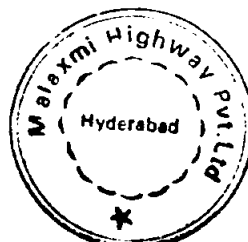
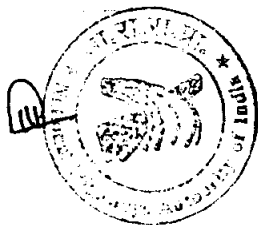
Page 39

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) 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 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



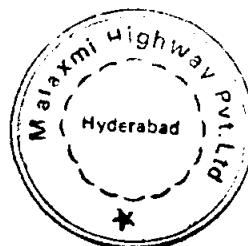
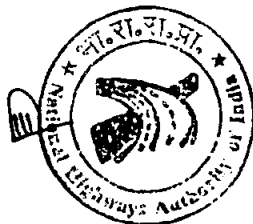
Page 40

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 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.
- 17.5 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.

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;

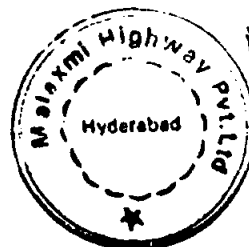
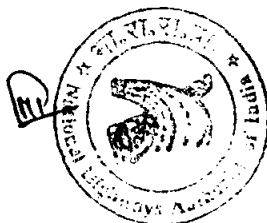


- (ii) to allow NHAI to levy, demand, collect and appropriate the Fees from vehicles and persons liable to payment of Fees for using the Project Highway or any part thereof as per Article VII
- (iii) minimizing disruption to traffic in the event of accidents or other incidents affecting the safety and 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'.

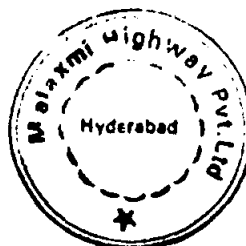
18.2 The Concessionaire shall in consultation with the Independent Consultant prepare not later than 180 (one hundred and eighty) days before the Scheduled Project Completion Date, the repair and maintenance manual (the "Maintenance Manual") for the regular and periodic maintenance, and shall ensure 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 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.

18.3 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;

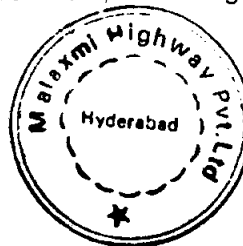
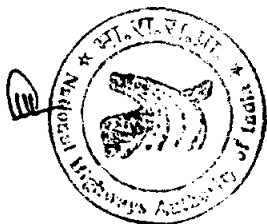


- (iii) preventive maintenance schedule;
 - (iv) intervals at which the Concessionaire shall carry out periodic maintenance;
 - (v) intervals for major maintenance and the scope thereof; and
 - (vi) lane closures schedule for each type of maintenance (length and time).
- 18.4 Maintenance shall include 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 upto 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 upto 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

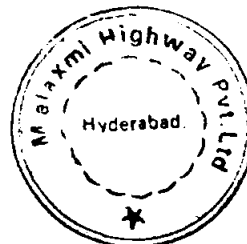
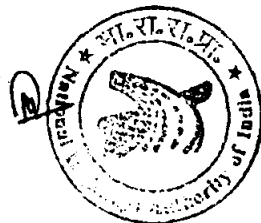


thereof, be entitled to undertake the repair and maintenance of the Project Highway at the risk and cost of the Concessionaire and to recover the same from the Concessionaire. In addition to recovery of the aforesaid cost of repair and maintenance by NHAI, a sum equal to 25% (twenty five per cent) of 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;



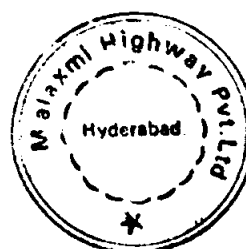
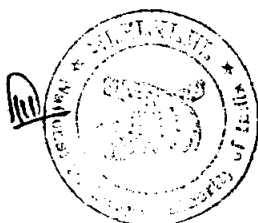
- b. recurrence of a breach by the Concessionaire, during the pendency of Notice to Remedy by the Independent Consultant/ NHAI requiring the Concessionaire to remedy a breach and
- c. repeated occurrence of a breach notwithstanding that earlier breaches have been remedied pursuant to Notice to Remedy or otherwise.

XIX MONITORING AND SUPERVISION DURING OPERATION

- 19.1 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 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

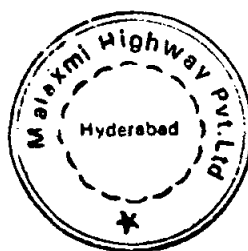
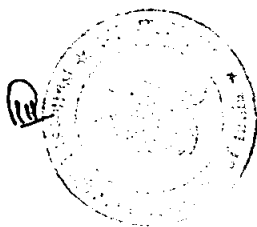
- 20.1 NHAI shall appoint a consulting engineering firm or body corporate in accordance with the selection process set forth in Schedule 'N' to be the Independent Consultant to undertake and perform the duties, work, services and activities set forth in Schedule 'O'. In addition NHAI, at any time during 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.
- 20.3 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



CHAPTER - V

FINANCING ARRANGEMENTS

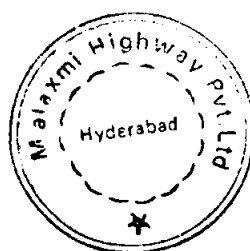
XXII. FINANCIAL CLOSE

- 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

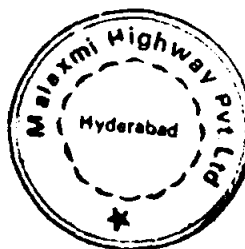
XXV. ESCROW ACCOUNT

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 premia, 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.

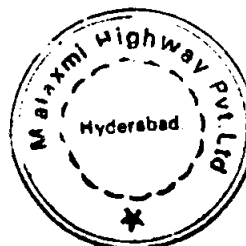
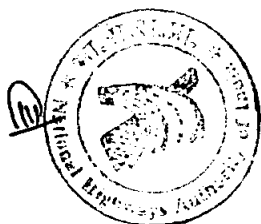
25.2.2 The Concessionaire shall not in any manner modify the order of payment specified in this clause 25.2 except with the prior written approval of NHAI.

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;
- (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 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. 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.

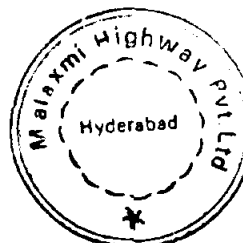
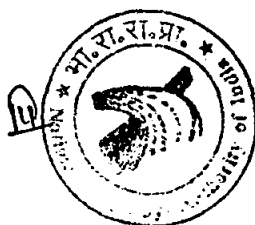
- 25.4 The instructions contained in the Escrow Agreement shall remain in full force and effect until the obligations set forth in Clause 25.3 have been discharged.

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 Madhya Pradesh. The nature and scope of such support and services required by the Concessionaire from Government of 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 Madhya Pradesh substantially in form and content as set forth in Schedule 'R'.

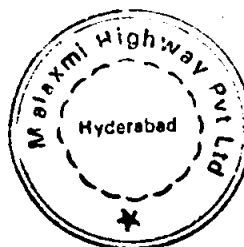
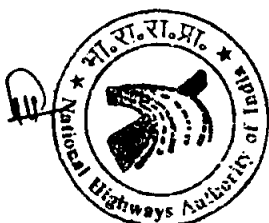
XXVII. INSURANCE

- 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 upto 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



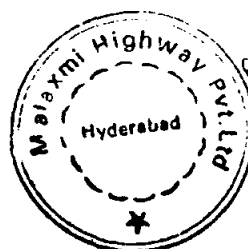
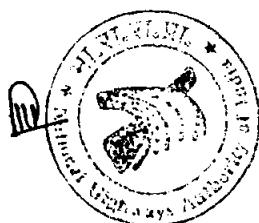
satisfaction of Senior Lenders' dues in full, shall be determined on the same principles as applicable for determining the level of Insurance prior to such date. This level shall be agreed with NHAI within 120 days of date of this Agreement. For the sake of brevity, the aggregate of the maximum sums 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 reinsurers, 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 premia 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 premia 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 thereunder 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.



XXVII ACCOUNTS AND AUDIT

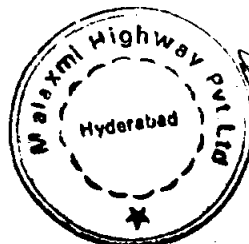
- 28.1 The Concessionaire shall maintain full accounts of all Annuities derived by it from the Project Highway and of O&M Expenses and other costs paid out of the Project Escrow Account and shall provide copies of the said accounts duly audited and certified by the Concessionaire's Statutory Auditors 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 summarised 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, realisations 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 concurrent audit of the Concessionaire during the Construction Period. The charges and expenses of such Concurrent Auditor shall be borne by the NHAI. After such Construction Period, NHAI may at its option have concurrent audit 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.



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 than 7 days from the date of its occurrence.
- (ii) 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.

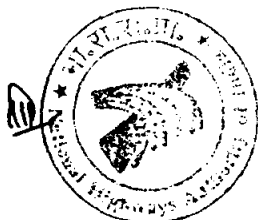
29.4 Political Force Majeure Events: For purposes of Clause 29.1, Political Event shall mean one or more of the following acts or events by or on account of GOI, NHAI, Government of Madhya Pradesh or any other Governmental Agency:

- (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 unauthorised 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.

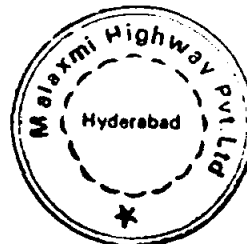
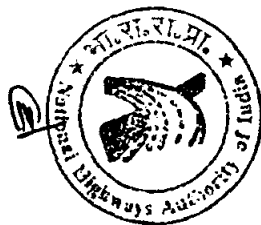
29.7 Allocation of costs during subsistence of Force Majeure: Subject to the provisions of clause 29.6, upon occurrence of a Force Majeure Event after Financial Close, the costs arising out of such event shall be allocated as follows:

- a) 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;
- b) Where the Force Majeure Event is an Indirect Political Event, the costs 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 NHA 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 NHA 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 NHA 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**

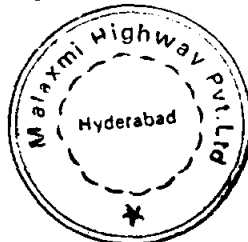
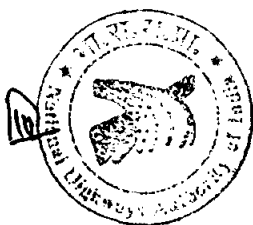
- a) If Termination is due to a Force Majeure Event which is a Non Political Event, no Termination Payment shall be made by NHAI to the Concessionaire but, the Concessionaire shall be entitled to receive and appropriate the proceeds of any insurance obtained by it.
- b) If Termination is due to a Force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

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.

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.

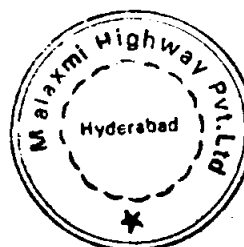
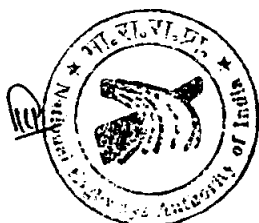
29.12 **Duty to Report:** The Affected Party shall discharge the following obligations in relation to reporting the occurrence of a Force Majeure Event to the other Party:



- 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 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.



CHAPTER – VII

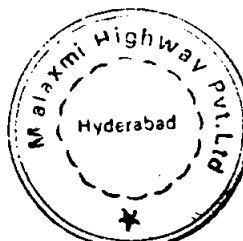
SUSPENSION AND TERMINATION

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 authorise 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 utilise 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 NHAI, in one lumpsum within 30 (thirty) days of receiving the demand or at NHAI's option in 3 (three) equal semi-annual installments with interest @ SBI PLR plus 2% (two per cent).

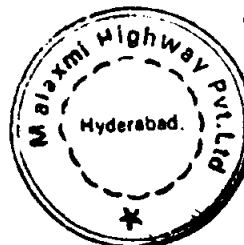
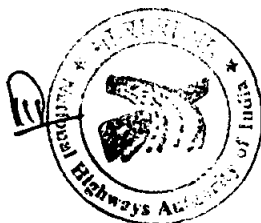
XXXII TERMINATION

32.1 Termination for the Concessionaire Event of Default.

32.1.1 Concessionaire Event of Default

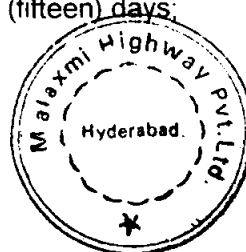
The following events shall constitute an event of default by the Concessionaire (a "Concessionaire Event of Default") unless such Concessionaire Event of Default has occurred as a result of NHAI Event of Default or a Force Majeure Event;

- 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 Sole Bidders 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

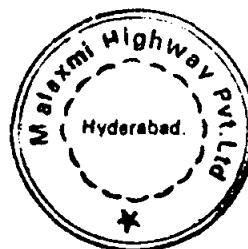
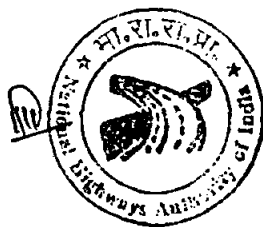


ability of the Concessionaire to perform, and the Concessionaire has the financial and technical capability to perform, its material obligations under the Project Agreements;

- 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:
 - (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 NHA 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 Madhya Pradesh 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.

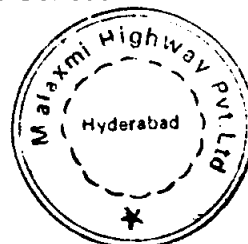
32.4.2 Upon Termination by the Concessionaire on account of an NHA Event of Default, prior to the COD, the Concessionaire shall be entitled to receive from NHAI by way of Termination Payment a sum equal to Book Value and accrued interest thereon @SBI PLR + 2% (two per cent) p.a. from the date of Financial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

Upon Termination by the Concessionaire on account of an NHA 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 Cashflows 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 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

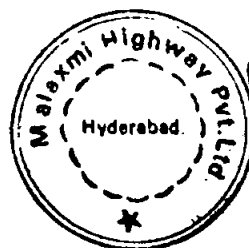
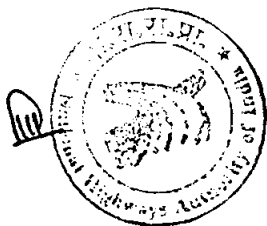


the Project Agreement as NHAI may in its discretion deem appropriate and shall upon such election be required to compensate such contractors only for compensation accruing and becoming due and payable to them under the terms of their respective Project Agreements from and after the date NHAI elects to 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

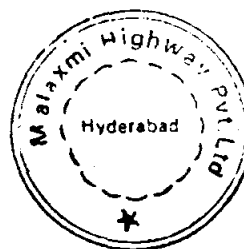
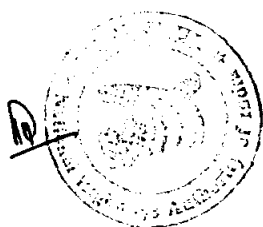
- 33.1 Upon Termination of this Agreement, the Concessionaire shall comply with the following:
- notify to NHAI forthwith the location and particulars of all Project Assets;
 - deliver forthwith actual or constructive possession of the Project Highway free and clear of all Encumbrances and execute such 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
 - comply with the Divestment Requirements set out in Clause 33.2.
- 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.

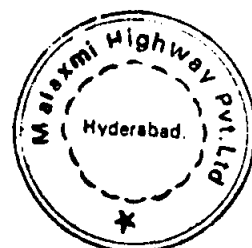
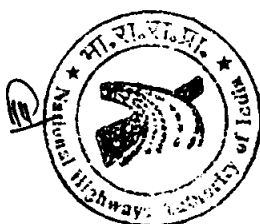
33.4 Upon the Concessionaire conforming to all Divestment Requirements and handing over actual or constructive possession of the Project Highway to NHAI or a person nominated by NHAI in this regard, NHAI shall issue a certificate substantially in the form set forth in Schedule 'V' (the "Vesting Certificate") 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 therefrom 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.

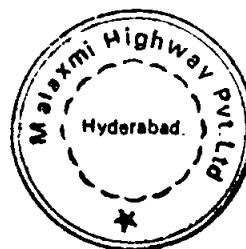
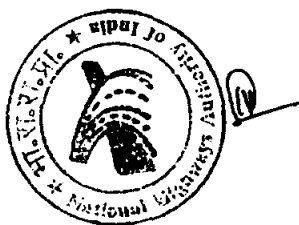
33.6 Deleted



- 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.
- 34.11 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

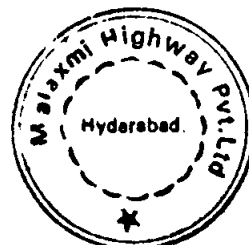
- 35.1 Subject to Clauses 35.3 and 35.4, this Agreement shall not be assigned by the Concessionaire save and except with prior consent in writing of NHAI, which consent NHAI shall be entitled to decline without assigning any reason whatsoever.
- 35.2 Subject to Clause 35.3, the Concessionaire shall neither 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 'U' 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.
- 35.5 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 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 so 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 so 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.

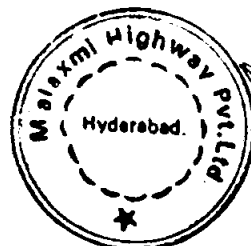
- 36.3 Notwithstanding anything to the contrary contained in this Agreement, NHAI shall not be liable to reimburse to the Concessionaire any sums on account of any Change in Taxes if the same are recoverable from the users of the Project Highway or if the aggregate financial effect of such changes in 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 NHAI harmless against any and all proceedings, actions and, third party claims (other than a claim by NHAI 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 NHAI Event of Default).
- (ii) NHAI 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 NHAI 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 NHAI, its Officers, servants, agents, subsidiaries and contractors ("NHAI Indemnified Persons") including NHAI 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 NHAI including its officers, servants, agents and subsidiaries from and against any and all loss and damages arising



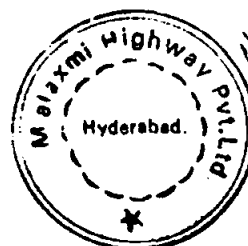
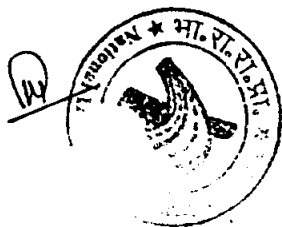
out of or with respect to (a) failure of the Concessionaire to comply with Applicable Laws and Applicable Permits, (b) payments of taxes relating to the Concessionaire contractors, suppliers and representatives, income or other taxes required to be paid by the Concessionaire without reimbursement hereunder, 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 NHA Indemnified Person from and against any and all damages which the NHA 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 NHA a licence, at no cost to NHA, 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 defence 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 defence. 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.

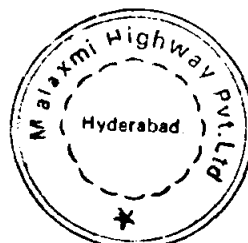
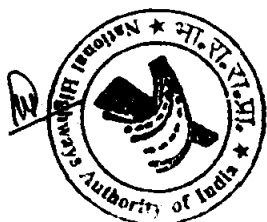
37.5.2 If the Indemnifying Party has exercised its rights under Clause 37.4, the Indemnified Party shall not be entitled to settle or compromise any claim, action, suit or proceeding without the prior written consent of the Indemnifying Party (which consent shall not be unreasonably withheld or delayed).

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 authorised 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 defence 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 defence of such action and shall have been so notified by the Indemnified Party; or
 - (iv) the Indemnified Party shall have reasonably concluded and specifically notified the Indemnifying Party either:
 - a) that there may be specific defences 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 defence 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.

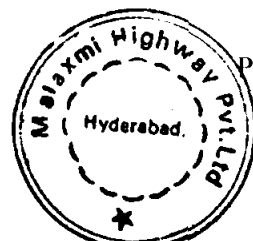
XXXIX. DISPUTE RESOLUTION

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 sub clause (b) below. Such arbitration shall be held in



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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 NHA'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 NHA 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 NHA agree that an Award may be enforced against the Concessionaire and/or NHA, 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.

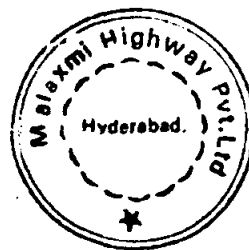
XLIV. MISCELLANEOUS

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 Agreement;
 - (ii) shall not be effective unless it is in writing and executed by a duly authorised 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 thereunder 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 authorised by a resolution of NHAI in this behalf.

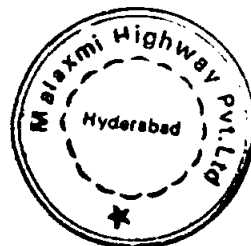
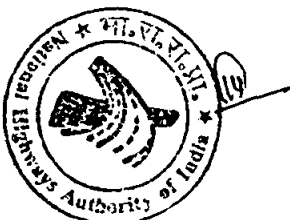
44.5 Notices

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. 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.

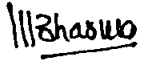
44.10 Counterparts

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 WHEREOF 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
General Manager (NH)



(Signature)

(Name)
(Designation)

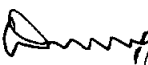
In the presence of :

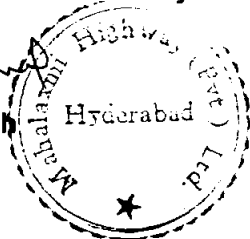
1. 
(NIRMAL JITSINGH)
2. 

SIGNED, SEALED AND DELIVERED

For and on behalf of

Malaxmi Highway Private Limited
CONCESSIONAIRE By:

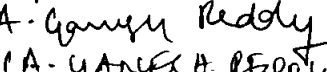


D. Suresh
Director

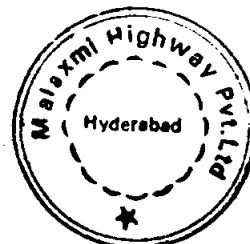


(Signature)

(Name)
(Designation)

In the presence of :

1. 
(A. GANESH REDDY)
2. 
(S.K. KATHURIA)





दिल्ली DELHI

B 611807

रियायत करार

यह करार 29 सितम्बर, 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 "भाराराप्रा" संदर्भित किया गया है और जिसमें जब तक इसके संदर्भ अथवा अर्थ से असंगत न हो, इसके प्रशासक, उत्तराधिकारी और समनुदेशिनी शामिल हैं), एक पक्ष;

और

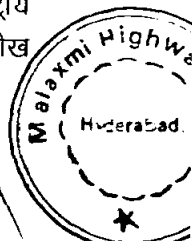
2. मॉलक्ष्मी हाईवे प्राइवेट लिमिटेड, जो कि कंपनी अधिनियम, 1956 के प्रावधानों के अंतर्गत एक निगमित कंपनी है और जिसका पंजीकृत कार्यालय मॉलक्ष्मी हाउस, 8-2-583/3, रोड नं. 9, बंजारा हिल्स, हैदराबाद - 500 034 में है (जिसे इसमें इसके पश्चात् "रियायतग्राही" अथवा "कंपनी" संदर्भित किया गया है जिसमें जब तक इसके 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 मध्य प्रदेश राज्य में राष्ट्रीय राजमार्ग संख्या 7 (सारा-7) के 547/400 कि.मी. से 596/750 कि.मी. तक 49.35 कि.मी. के विद्यमान दो लेन के हिस्से को चौड़ा कर रियायत के माध्यम से निर्माण प्रचालन और हस्तांतरण के बीओटी वार्षिकी आधार पर चार लेन का बनाने के लिए भाराराप्रा को अधिकृत किया है तथा भारतीय राष्ट्रीय राजमार्ग प्राधिकरण अधिनियम, 1988 की धारा 11 के अनुसरण में अपनी अधिसूचना संख्या 465 (अ), तारीख 26.4.2002 द्वारा राष्ट्रीय राजमार्ग 7 के उक्त भूखंडों को भाराराप्रा में निहित कर दिया है जैसा कि उक्त अधिसूचना तारीख 26.4.2002 में उल्लिखित है।



म



27 SEP 2006 27 SEP 2006

S/N No. _____ Date _____
Sold To _____ S/O D/o W/o _____
R/o _____
In Favour of _____ S/O D/o W/o _____
THROUGH _____
PURPOSE _____

SANDIP KUMAR

SL No-275, R-10/2, Model Town-III DELHI

Mr. Mahesh Kumar
Hubbair

and
Hydralind

SD @

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 व्यवहारिक 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

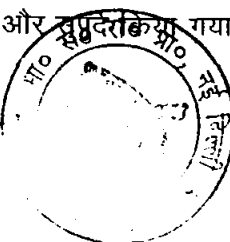
इस करार में विधि अथवा आचार अथवा अन्यथा दोनों पक्षों के बीच हुए किसी अन्य करार अथवा किसी भी पक्ष के किसी अभ्यावेदन जो कि दोनों पक्षों द्वारा निष्पादित बाध्यकारी विधिक वास्तविक नहीं है, द्वारा अंतर्निहित कोई वारंटी, शर्त अथवा अन्य वचनपत्र स्पष्ट रूप से शामिल नहीं है।

44.10 प्रतिलिपि

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

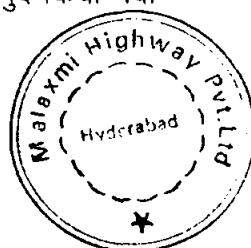
45.1 निम्नलिखित साक्षियों की उपस्थिति में दोनों पक्षों ने ऊपर लिखी तिथि को यह करार निष्पादित तथा सुपुर्द किया।

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
के लिए और की ओर से
हस्ताक्षरित, मुहरबंद और सुपुर्द किया गया
द्वारा
एम. पी. शर्मा
महाप्रबंधक (एन-11)



मॉलक्ष्मी हाईवे प्राइवेट लिमिटेड
के लिए और की ओर से
हस्ताक्षरित, मुहरबंद और सुपुर्द किया गया
द्वारा

डी. सुरेश
निदेशक



निम्नलिखित की उपस्थिति में

(हस्ताक्षर)

(नाम)

(पदनाम)

1. निम्नलिखित लिमिटेड

(हस्ताक्षर)

(नाम)

(पदनाम)

2. ए. के. बजाज

निम्नलिखित की उपस्थिति में

(हस्ताक्षर)

(नाम)

(पदनाम)

1. निम्नलिखित लिमिटेड

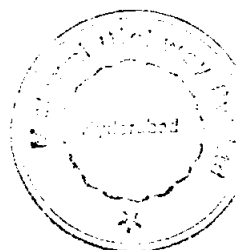
(हस्ताक्षर)

(नाम)

(पदनाम)

2. A. Srinivas

ENCLOSURE - 1





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 / 2563

No. 11041/21/2005-Admn.

2nd August 2006

POLICY MATTERS – ADMINISTRATOIN / FINANCE [125/2006]

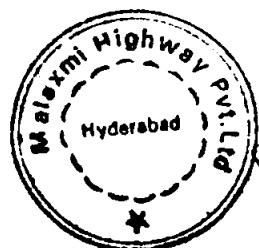
(Decision taken on DR & QA Cell's File No. NHA/DR & QA Cell/ARB/2005)

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.

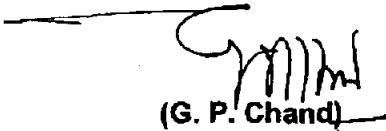


Contd.....

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.

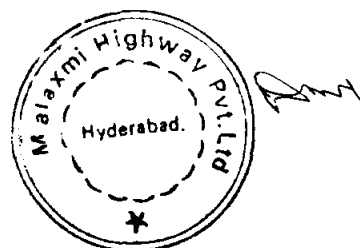
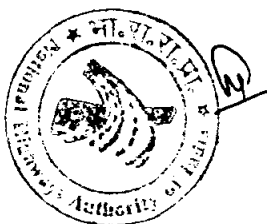
4. In case of future contracts the fee structure may be included as part of the Bidding Documents / Contractor Documents and the acceptance of the above fee structure by the Contractors / Supervisions Consultants may be kept as a precondition for signing the contract.

5. This issues with the approval of Chairman.


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

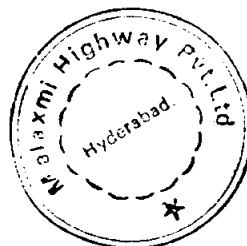
To :

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 (MORTH) 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 Highway Authority of India (NHAI) with the responsibility of augmenting the capacity of highway corridors. The Project under consideration aims at developing a four-lane divided carriageway standard, for North-South Corridor in Seoni District of Madhya Pradesh State.

The National Highway No. 7 starts from Varanasi and ends at Kanyakumari after traversing a distance of 2369 km approximately. Lakhnadon village falls at Km 544/0 on this NH-7.

The proposed Package-I starts from km 547/400 of NH-7 (near Lakhnadon) and ends at Km 595/925 of NH-7 (start of Seoni bypass). Total proposed length is 49.350kms approx. It has been decided to implement on Build, Operate and Transfer (BOT) basis.

The Project would involve construction of four-lane divided carriageway from Lakhnadon (Km 547/400 of NH-7) to start of Seoni bypass (Km 595/925 of NH-7).

The construction package chainage details are as follows:

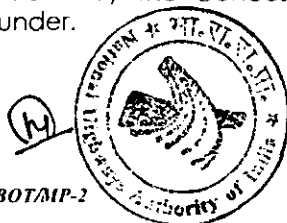
		Existing Kilometer age (Km & m)	Proposed Chainage (Km & m)	Remarks
Construction Package-I	From	Km 547/400 of NH-7	Km 547/400 of NH-7	
	To	Km 595/925 of NH-7	Km 596/750 of NH-7	
	Length		49.350 Km	

The present schedule describes the features of the Project Highway pertaining to Construction package start at Km 547/400 of NH-7 and ends at Km 595/925 of NH-7. The index plan of the construction package is shown in "Figure - 1.1".

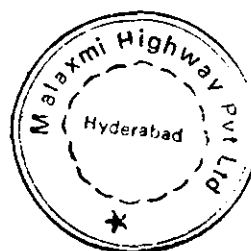
1.2 Disclaimer

The data presented below in this schedule is for an initial understanding and guidance of the Concessionaire. NHAI 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 NHAI. 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.



RFP BOT (Annuity) NS I/BOT/MP-2



A-1

2 DESCRIPTION OF PROJECT HIGHWAY

2.1 Road Inventory

The project road has a length of 49.350km approx. It starts from Lakhnadon at km 547/400 of NH-7 and ends at the start of Seoni by pass at km 595/925 of NH-7. This package consist 2 by passes, 2 realignment and two major bridges. The right way of the existing road is 33m. Seoni is District Head Quarter. The topography of the area is partly rolling & partly plain.

2.2 Road Geometry

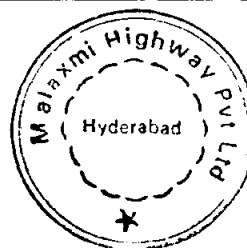
The road starts from Lakhnadon moves southward and follows up to MP/MH Border. The road traverses through plain and mountainous regions. Geometrics of the road are generally mild; nevertheless improvement of the deficient reaches is required.

2.3 Abutting land use

The proposed alignment of bypass passes through agriculture fields and barren land for most part of the alignment. Details of urban areas and settlements along the alignment are given in Table A-1 below:

Table A-1: Settlements along the Project Highway

S. No.	Name of Village	Location(KM)		Proposed Chainage		Name of Tehsil	Name of Distt.
		Start	End	Start	End		
1	Bamhori	546+240	548+400	-	-	Lakhnadon	Seoni
2	Mekhdon	545+800	546+100	-	-	Lakhnadon	Seoni
3	Madai	546+100	551+600	547400	551575	Lakhnadon	Seoni
4	Sahajpur	551+600	555+600	551575	555434	Lakhnadon	Seoni
5	Ganeshganj	555+100	556+600	554975	556525	Lakhnadon	Seoni
6	Bijana	556+600	557+160	556525	557042	Lakhnadon	Seoni
7	Kuhiya	557+160	560+165	557042	560025	Lakhnadon	Seoni
8	Ghunai	560+165	563+600	560025	563325	Lakhnadon	Seoni
9	Devgaon	563+600	564+560	563325	564275	Lakhnadon	Seoni
10	Ghoghri	566+040	567+350	565750	567075	Lakhnadon	Seoni
11	Dungaria Chhapara	Chhapara Bypass				Lakhnadon	Seoni
12	Devri Kala	Chhapara Bypass				Lakhnadon	Seoni
13	Chhapara Khurd	Chhapara Bypass				Lakhnadon	Seoni
14	Chhapara Kala	572+350	573+600	572550	573825	Lakhnadon	Seoni
15	Bichhua	573+150	574+450	573825	574675	Lakhnadon	Seoni
16	Sadak Seoni	574+450	576+400	574675	576650	Lakhnadon	Seoni
17	Jhilmili	576+400	576+850	576650	577100	Lakhnadon	Seoni



18	Saukhera	576+850	578+120	577100	578375	Lakhnadon	Seoni
19	Gorakhpur Kala	578+120	581+600	578375	581900	Seoni	Seoni
20	Aloniya	581+600	585+750	581900	586100	Seoni	Seoni
21	Narayangunj	584+165	584+800	584500	585125	Seoni	Seoni
22	Bandol	584+800	587+700	585125	588400	Seoni	Seoni
23	Kuklaha	Bandol Bypass				Seoni	Seoni
24	Rahiwara	587++700	589+800	588400	590500	Seoni	Seoni
25	Sonadungri	589+800	593+150	590500	593887	Seoni	Seoni
26	Chorgarathiy	593+150	596+885	593887	597550	Seoni	Seoni
27	Bihiriya	595+250	595+670	596050	596450	Seoni	Seoni

The Project Highway mainly passes through agricultural lands. The broad land use pattern along the Project Highway is given in Table A-2 below:

Table A-2: Predominant Land Use along the Project Highway

Description	Land in Hac.
Private	121.73
Govt.	27.13
Reserve Forest	29.10
Revenue Forest	26.02

2.4 Drainage

The number of rainy days in project area is in the range from 30 to 50 in a year. At present, the surface run-off is taken to natural streams through roadside drains. The pavement drainage is absent.

2.5 Soil Characteristics

Strata of the existing highway predominantly consist of clayey silt mix with gravel. At some stretches black cotton soil and hard rocky strata is also observed, therefore special precaution is to be taken where the black cotton soil is observed.

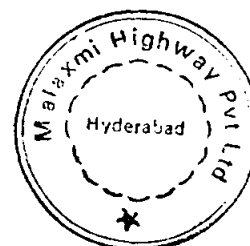
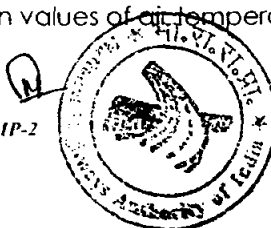
2.6 Environments and Climate

The climate of the region is marked by hot winds and dust storms in summer and temperature dropping to around 15.40C 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 : 37.3° C (June)
- Minimum Mean : 15.4° C (January)

Average rainfall along the project corridor is 1900mm

The road lies in seismic zone III as indicated in IS 1893 (Pt I).

2.7 Land Details

The package consists of construction of new Bypasses, and provision of additional two lanes. Land along the entire project stretch has to be acquired for getting ROW of 60m. The proposed ROW along the Project Highway is given in Table A-3 below:

Table A-3: Proposed width of Land Acquisition along the Project Highway

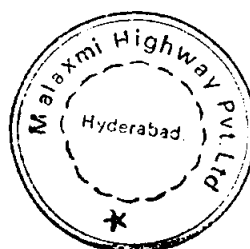
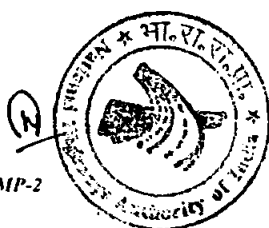
	Width (Max.) m	Width (Min.) m
Widening	60	60
Bypasses/Realignments and Geometrical Improvement	60	60
Major Junctions	150	100
ROB Locations	80	80
Flyover	80	80

2.8 Traffic

The classified traffic volume counts were recorded in February, 2004 at two locations that would impact traffic flow on planned highway. Table A-4 presents the observed traffic volume on locations mentioned below.

Table A-4: ADT by Homogeneous Sections

Mode	Km 544.750	Km 597.600
Two wheelers	821	1272
Three Wheelers	5	29
Cars / Tempos	702	953
Buses	204	229
Trucks / LCV	1693	1848
Agricultural Tractors	61	66
Others (Non-motorized, Slow Moving)	1253	1101
TOTAL VEHICLES	4739	5498
TOTAL PCU	7856	8695



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2.10 Pavement Condition and Composition

As per the pavement composition data collected from the project highway, the thickness of the pavement varies from 340 to 745 mm. The details are given in Table A-5.

Table A-5 : Details of Existing Pavement

S. No.	Km	Pavement Thickness (mm)			
		GSB	WBM	Bituminous	Total
1	544	240	150	200	590
2	550	-	190	170	360
3	557	240	200	250	690
4	561	240	180	40	460
5	566	250	270	225	745
6	572	240	180	40	460
7	578	150	200	160	510
8	584	-	190	150	340
9	590	-	320	140	460
10	596	240	180	40	460

The condition of the pavement is fair to good. The riding quality and Benkelman Beam Deflection data can be seen in the DPR.

2.11 Cross Drainage Structures

There are total 109 Existing cross-drainage structures on the Project Highway. Out of these, 2 nos. are Major Bridges (Total length > 60.0 m), 9nos. are Minor Bridges (6.0 m < Total Length < 60.0m) and the remaining 98 nos. structures are culverts. The summary of the cross-drainage structures is given in Table A-6 below:

Table A-6: summary of the existing cross-drainage structures

Sl.No.	Type of Structure	Total No. of Cross-Drainage Structure
1	Major Bridges	2
2	Minor Bridges	9
3	Culverts	98
4	ROB	-
5	Flyover	-
Total no. of Structure		109

The details of major bridges are given in Table A-7 and the details of minor bridges are given in Table A-8 below.

Table A-7: Details of Existing Major Bridges

S.No	Chainage	Bridge No	Proposed span	Remarks
1	554+947	556/2	3x29.20	new 4-lane
2	570+880	571/2	10x29.60	new 4-lane

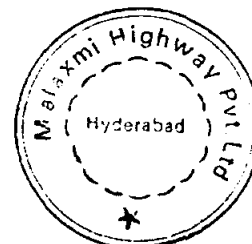
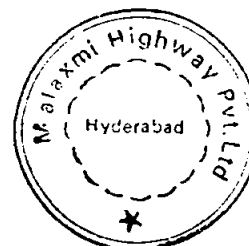
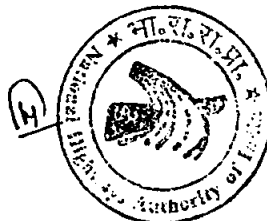


Table A-8: Details of Existing Minor Bridges

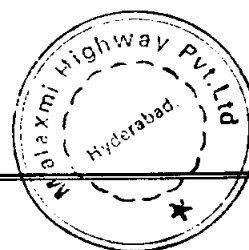
S.No	Chainage	Bridge No	Proposed span	Remarks
1	556+488	557/6	5x6.80	new 2-lane
2	560+033	561/2B	1x11.20	new 4-lane
3	567+872	569/6	1x11.20	new 4-lane
4	574+672	575/6	1x19.20	new 2-lane
5	576+642	577/4	2x10.80	new 2-lane
6	579+109	579/10	1x14.60	new 2-lane
7	592+151	592/6	3x8.80	new 2-lane
8	596+040	596/4	1x10.80	new 2-lane
9	596+436	596/8	3x10.80	new 2-lane

Some of the bridges were constructed in eighties and are in sound condition but generally do not meet the width requirement.



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 Km 547/400 of NH-7 to Km 595/925 of NH-7 and the following scope of work shall be considered as part of this package.

- The concessionaire shall do the value addition for improving safety by providing traffic safety items and include road furniture from km 547/400 near Lakhnadon to km 595/925 start of Seoni bypass as per specifications and standards mentioned in Schedule D and Schedule L.

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.

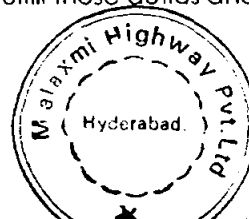
In addition to the above, the following sections of this Schedule briefly highlight the scope of the work of the Project Highway pertaining to construction package from Km 547/400 to Km 595/925 for the information of the Concessionaire. The description of the requirements for the various elements of the Project Highway given herein under are the **bare minimum requirements** 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. All the designs and drawings shall be reviewed by the Independent Consultant prior to execution.

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 well :

- a. Enable the NHAI to provide an acceptably safe highway in respect of its condition (structural safety) and use (road safety); and
- b. Enable the NHAI to fulfill its statutory and common law obligations; and
- 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:



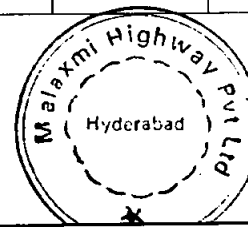
- f. Minimise the occurrence and adverse effects of accidents and ensure that all accidents and emergencies are responded to as quickly as possible;
- g. Minimise the risk of damage, destruction or disturbance to third party property
- h. Ensure that members of the public are treated with all due courtesy 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; and
- 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 is to be designed and constructed as a 4 lane divided carriageway facility. Table B-1 Indicates the location of different types of road cross sections, which shall be followed along with the minimum construction criterion, mentioned below for the development of the Project Highway.

Table B-1: Cross Section Type along the Project Highway

S.No.	From	To	Applicable Proposed CS	Actual Length of Road	TCS-1	TCS-2	TCS-3
1	547400	550325	TCS-1	2925	2925	0	0
2	550325	551000	TCS-2	675	0	675	0
3	551000	551550	TCS-1	550	550	0	0
4	551550	553500	TCS-3	1950	0	0	1950
5	553500	559775	TCS-1	6275	6275	0	0
6	559775	566300	TCS-3	6525	0	0	6525



7	566300	582450	TCS-1	16150	16150	0	0
8	582450	583550	TCS-2	1100	0	1100	0
9	583550	589250	TCS-1	5700	5700	0	0
10	589250	589750	TCS-2	500	0	500	0
11	589750	596750	TCS-1	7000	7000	0	0

- TCS-5 for areas of black cotton soil.
- Figures B-1 to B-04 presents the typical cross sections that shall be followed for the improvement of Project Highway.

The utility services, including optical fibre 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 consonance 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.

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 provided as per design and drawings

The horizontal alignment along the Project Highway shall be provided as per the standards set out in Schedule D

Kinks in the horizontal alignment shall be eliminated

5. Service Roads

Table B-1 Proposed position of service road has been shown in Cross-Section TCS-2 of Table B-1.

Any additional service road, if required, shall be finalized in consultation with IC during execution.

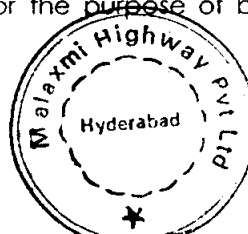
6. Pavement

6.1 General

In case of flexible pavements, the detailed pavement design requirements of the Project Highway and that of the service roads in Urban Sections shall be in accordance with Table B-3, B-4 and IRC:37:2001 clause 6.3. Pavement shall be either flexible four lane, paved shoulders, service roads, truck lay byes, bus bays and for cross roads up to ROW limits and invariably rigid at toll plaza locations.

6.2 Pavement Composition for New Construction

The minimum composition of the new flexible pavement shall be as shown in Table B-3 below for sub-grade strength of 10% 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-3: Pavement Composition for New Construction

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)	200
Selected Subgrade (10% CBR) 500	500

6.3 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

6.4 Service Road/ Slip Road Pavement Composition

The length of Service Road is 2.28km. The minimum pavement thickness for service roads and for slip roads shall be as follows:

Table B-4: Pavement Composition for Service Roads/Slip Roads

Designation of the Pavement Layer	Layer Thickness in mm
Bituminous Concrete (BC/AC)	40
Dense Bituminous Macadam (DBM)	50
Wet Mix Macadam (WMM)	250
Granular Sub-base (GSB)	200
Selected Subgrade (10% CBR)	500

6.5 Overlay Composition of Existing Pavement

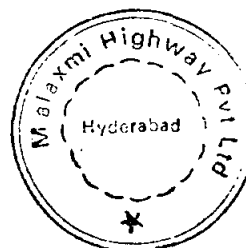
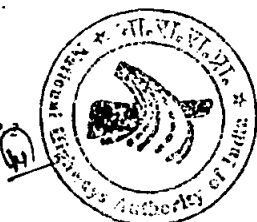
The existing pavement shall be treated with minimum overlay as per details given below:

	AC	DBM
Km 544 to Km 582	50mm	90mm
Km 582 to Km 596	50mm	110mm

The profile correction course shall be laid with bituminous macadam of varying thicknesses to achieve the final profile indicated in the longitudinal sections.

7. Intersections

The major intersections as mentioned in Table B-5 and minor junctions/ intersections as mentioned in Table B-6 shall be designed individually in accordance with standards mentioned in Schedule-D. Typical drawings given in Figure B-5 to B-12 shall be followed for reference purposes only.



Treatment at additional intersections if any, on the Project Highway shall be decided by the Concessionaire in consultation with the Independent Consultant.

Table B-5: Improvement Measures for Major Junctions/ Intersections

S.No.	Junction Name	Location Km
1	Ganeshganj Start	555/950
2	Ganeshganj End	556/800
3	Banjari Mata Start	561/800
4	Banjari Mata End	562/600
5	Chapara Start	568/900
6	Chapara End	573/400
7	Bandol Start	587/280
8	Bandol End	589/400

Table B-6: Details of Minor Junctions/ Intersections

S. No.	Type	Side	Chainage	Remark
1	T-Junction	Right	563.22	RHS to Chamari
2	Intersection	-	567.8	RHS to Adhegaon, LHS to Ghoogari
3	Intersection	-	574.6	RHS to Barra LHS to seoni
4	T-Junction	Right	575.55	RHS Piparia
5	T-Junction	Left	577.3	LHS Randhir Nagar
6	T-Junction	Left	579.5	LHS Gourakhpur
7	T-Junction	Left	583.5	LHS Gourakhpur Village
8	T-Junction	Left	585.39	LHS Kalaar Banki
9	Y-Junction	Left	592.63	LHS Balram pura
10	Y-Junction	Right	593.25	RHS Munghakhera
11	T-Junction	Left	594.75	LHS Chorgarthia
12	T-Junction	Left	595.5	LHS Bihiria
13	T-Junction	Left	597	LHS Balpur

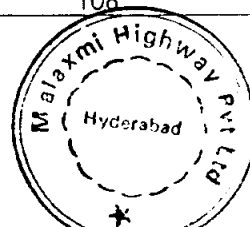
The Concessionaire shall take up 'Detailed Engineering Study' to ascertain further details of all intersections based on conceptual designs as suggested above. The treatment at the intersections shall be designed in accordance with the latest IRC/ MORT&H guidelines spelt out in Schedule D.

8. Structures

Cross sectional elements for structures shall follow the drawings mentioned in figures B-13 to B-14. 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.

Table B-7: Recommendation on CD Structures of the Project

Type of structures	New Construction
ROB	-
Flyover	-
Major Bridge	02
Minor Bridge	09
Culvert	106



8.1 Major bridges

There shall be two new major bridges. Table B-8 presents the Indicative details of major bridges to be constructed (intending Concessionaire to refer to the drawings provided in the Annexure).

Table B-8: Details of Major Bridges

S. No	Chainage	Bridge No	Proposed span	Remarks
1	554+947	556/2	3x29.20	new 4-lane
2	570+880	571/2	10x29.60	new 4-lane

8.2 Minor Bridges

There are a total 9 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-9: Details of Minor Bridges

S.No	Chainage	Bridge No	Proposed span	Remarks
1	556+488	557/6	5x6.80	new 2-lane
2	560+033	561/2B	1x11.20	new 4-lane
3	567+872	569/6	1x11.20	new 4-lane
4	574+672	575/6	1x19.20	new 2-lane
5	576+642	577/4	2x10.80	new 2-lane
6	579+109	579/10	1x14.60	new 2-lane
7	592+151	592/6	3x8.80	new 2-lane
8	596+040	596/4	1x10.80	new 2-lane
9	596+436	596/8	3x10.80	new 2-lane

8.3 Proposed Major Structures (Flyover)

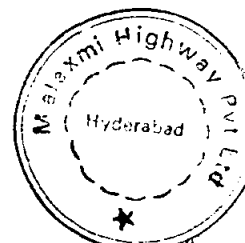
There is no Flyovers planned along the alignment.

8.4 Cattle Crossing / Vehicular Underpass

Total 3 number of vehicular underpasses for vehicles and 5 cattle crossings have been proposed to maintain the smooth flow of the fast traffic on the main carriageways and reduce the accidents and problems encountered by the local people in the crossing of the national highway. Locations of proposed vehicular underpass, cattle crossings and animal crossings are given in the Table B-10.

Table B-10: Details of Proposed Vehicular Underpasses, Cattle Crossings, Animal Crossings Underpass(s)

S.No	Chainage	Proposed span	Remarks
1	555+105	1x10.0	new 4-lane
2	570+075	1x10.0	new 4-lane
3	572+085	1x10.0	new 4-lane



Cattlepass(s)

S.No.	Chainage	Proposed span	Remarks
1	561+190	1x6.0	new 4-lane
2	568+615	1x6.0	new 4-lane
3	568+895	1x6.0	new 4-lane
4	583+223	1x6.0	new 4-lane
5	587+259	1x6.0	new 4-lane

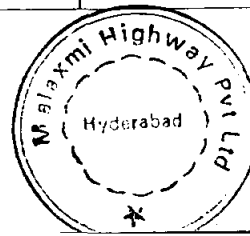
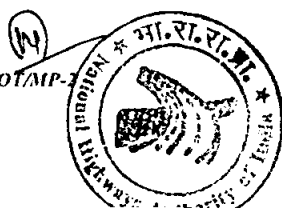
It is to be noted that the number of underpasses (details given in above Table) are minimum required. Any additional underpasses including dimensions shall be finalized in consultation with IC during execution.

8.5 Culverts

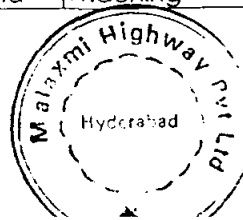
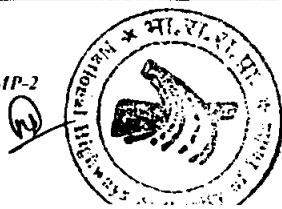
All the culverts shall be constructed for the full roadway width as per IRC standards. Table B-11 presents the details of construction scheme that shall be adopted for culverts.

Table B-11: Details of Proposed Culverts

S.No.	Chainage	Culvert No.	Proposed Culvert		Remarks
			Type	Span	
1	547425.560	548/6	Slab	1x3	Widening
2	547788.752	548/10	Pipe	2x1 dia	Widening
3	548449.401	549/6	Pipe	1x1 dia	Widening
4	548671.214	549/8	Slab	1x3	Widening
5	548867.216	549/10	Pipe	2x1 dia	Widening
6	549065.262	550/2	Pipe	2x1 dia	Widening
7	549220.812	550/4	Slab	1x2	Widening
8	549285.655	550/4	Pipe	1x1 dia	Widening
9	549517.354	550/6	Pipe	1x1 dia	Widening
10	549695.218	550/8	Pipe	2x1 dia	Widening
11	549950.316	550/10	Pipe	1x1 dia	Widening
12	550330.221	551/4	Pipe	5x1 dia	Widening
13	550821.809	551/10	Pipe	1x1 dia	Widening
14	551157.488	552/2	Pipe	1x1 dia	Widening
15	551365.982	552/4	Pipe	1x1 dia	Widening
16	551717.365	552/8	Pipe	1x1 dia	Widening
17	551962.248	552/10	Pipe	1x1 dia	New in replacement of SSV
18	552069.031	553/2	Pipe	1x1 dia	Widening
19	552199.151	553/4	Pipe	1x1 dia	Widening
20	552386.278	553/6	Pipe	1x1 dia	Widening
21	552659.795	553/8	Pipe	1x1 dia	New in replacement of SSV
22	552930.312	554/2	Pipe	3x1 dia	Widening
23	553148.238	554/4A	Pipe	1x1 dia	Widening
24	553258.225	554/4B	Pipe	1x1 dia	Widening
25	553921.615	555/2	Slab	1x6	Widening
26	554503.294	-	Slab	1x5	New on Ganeshganj Realignment



27	556053.774	557/2	Pipe	1x1dia	Widening
28	557443.800	558/6	Pipe	2x1dia	Widening
29	557701.233	558/10A	Pipe	1x1dia	Widening
30	557831.822	558/10B	Pipe	1x1dia	Widening
31	557907.478	559/2	Pipe	2x1dia	Widening
32	558178.750	559/4	Slab	1x4	Widening
33	558303.500	559/6A	Pipe	2x1dia	Widening
34	558414.996	559/6B	Pipe	1x1dia	Widening
35	558635.977	559/8	Slab	1x3	Widening
36	559057.232	560/2	Pipe	2x1dia	Widening
37	559354.149	560/6	Pipe	1x1dia	Widening
38	559564.246	560/8A	Pipe	1x1dia	Widening
39	559611.332	560/8B	Pipe	1x1dia	Widening
40	559811.178	560/10	Pipe	1x1dia	Widening
41	559953.004	561/2A	Pipe	1x1dia	New on curve improvement
42	560225.313	561/4	Pipe	1x1dia	Widening
43	560255.151	561/6A	Pipe	1x1dia	Widening
44	560292.685	561/6B	Pipe	1x1dia	Widening
45	560325.718	561/6C	Pipe	1x1dia	Widening
46	560591.353	-	Slab	1x6	New on Banjari Mata Realignment
47	560641.430	-	Slab	1x6	New on Banjari Mata Realignment
48	561098.984	-	Slab	1x6	New on Banjari Mata Realignment
49	561349.822	562/8	Pipe	2x1dia	Widening
50	561804.429	563/2	Pipe	1x1dia	Widening
51	561953.770	563/4A	Pipe	1x1dia	Widening
52	562047.473	563/4B	Pipe	2x1dia	Widening
53	562224.858	563/6	Pipe	1x1dia	Widening
54	562878.123	564/2	Pipe	2x1dia	Widening
55	563117.525	564/4	Pipe	2x1dia	Widening
56	563824.810	565/2	Pipe	1x1dia	Widening
57	564007.783	565/4	Pipe	1x1dia	Widening
58	564311.051	565/6	Pipe	2x1dia	Widening
59	564411.389	565/8	Pipe	1x1dia	Widening
60	564708.607	565/10	Pipe	1x1dia	Widening
61	564812.971	566/2A	Pipe	1x1dia	Widening
62	564916.000	566/2B	Pipe	1x1dia	Widening
63	565117.548	566/4	Pipe	1x1dia	Widening
64	565251.088	566/6	Slab	1x6	Widening
65	565373.816	566/8A	Pipe	1x1dia	Widening
66	565431.416	566/8 B	Pipe	1x1dia	Widening
67	565517.456	566/8C	Pipe	1x1dia	Widening
68	565644.230	566/10A	Pipe	1x1dia	Widening
69	565690.463	566/10B	Pipe	1x1dia	Widening
70	566578.123	567/10	Pipe	2x1dia	Widening
71	567215.635	568/6A	Pipe	1x1dia	Widening
72	567313.414	568/6B	Pipe	1x1dia	Widening
73	567381.225	568/8	Pipe	1x1dia	Widening



74	568291.866	-	Slab	1x2	New on Chhapara Bypass
75	568533.000	-	Slab	1x3	New on Chhapara Bypass
76	568990.000	-	Slab	1x2	New on Chhapara Bypass
77	569965.000	-	Slab	1x4	New on Chhapara Bypass
78	570123.008	-	Slab	1x3	New on Chhapara Bypass
79	572547.977	-	Slab	1x6	New on Chhapara Bypass
80	573283.266	574/2	Pipe	1x1 dia	Widening
81	574058.593	574/10	Slab	1x6	Widening
82	575273.823	576/2	Pipe	1x1 dia	Widening
83	575622.729	576/4	Pipe	1x1 dia	Widening
84	576155.329	576/10	Slab	1x6	Widening
85	579551.224	580/4	Pipe	1x1 dia	Widening
86	579710.886	580/6	Pipe	1x1 dia	Widening
87	581437.531	582/2	Pipe	1x1 dia	Widening
88	581785.739	582/6A	Pipe	1x1 dia	Widening
89	581883.446	582/6B	Pipe	1x1 dia	Widening
90	582168.549	582/10	Pipe	1x1 dia	Widening
91	582894.060	583/6	Pipe	2x1 dia	Widening
92	583200.077	583/10	Pipe	1x1 dia	Widening
93	584094.828	584/8	Pipe	2x1 dia	Widening
94	584493.355	585/2	Pipe	2x1 dia	Widening
95	585097.308	585/8	Slab	1x5	Widening
96	586128.075	586/8	Slab	1x4	Widening
97	586620.008	-	Slab	1x2	New on Bandol Bypass
98	587761.825	-	Slab	1x5	New on Bandol Bypass
99	588407.095	-	Slab	1x5	New on Bandol Bypass
100	588+784.999	-	Slab	1x2	New on Bandol Bypass
101	589938.947	590/4A	Slab	1x6	Widening
102	590018.447	590/4B	Pipe	2x1 dia	Widening
103	591486.054	591/8	Slab	1x3.20	Widening
104	593268.456	593/6	Slab	1x5	Widening
105	593948.168	594/4	Slab	1x2	Widening
106	595380.342	595/8	Slab	1x6	Widening

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

8.6 Typical Cross Sections for structures

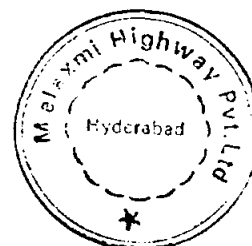
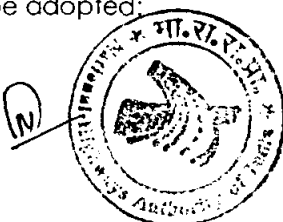
Figure – B-13 to B-14

9. Road Drainage and Slope Protection

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

9.1 Road Drainage

Following measures shall be adopted:



- Side ditches of required cross-section for area drainage on both sides of carriageway in rural sections.
- Chute drains along with shoulder drains in high embankment (3m and above);
- Median drains at super elevated sections with proper outfall connections; 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

9.2 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. The safety measures by providing W-frame crash barrier be taken where embankment height exceeds 3m.

9.3 Earth Retaining Structures

The minimum requirements of Earth Retaining Structures are as follows:

Earth Retaining Structures

The minimum requirements of Earth Retaining Structures are as follows:

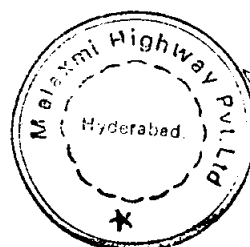
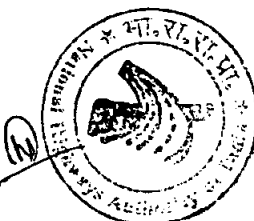
Table B-12 : Earth Retaining Structures

Details of Retaining Wall NH-7 Package-1 Left Side			
Sl No.	Start Chainage	End Chainage	Length
1	560849	560975	126 m
2	561048	561265	217 m
3	576574	576624	50 m
Total			393 m
Details of Retaining Wall NH-7 Package-1 Right Side			
Sl No.	Start Chainage	End Chainage	Length
1	570978	571274	296 m
Total			296 m
Grand Total			689 m

10. Traffic Signage and Pavement Markings

10.1 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.



10.2 Traffic signage

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

11. Highway Lighting

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

12. 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.

13. LED

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

14. Blinker at Intersection

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

15. 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.

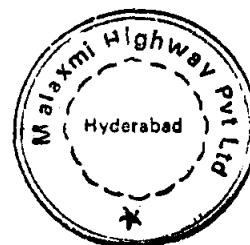
16. Studs

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.

17. 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.



18. 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.

19. Rain Water Harvesting System along the Project Road

Rain Water Harvesting & Conservation, is the activity of direct collection of Rain Water. The conservation of Rain Water so collected can be stored for direct use or can be re-charged into the Ground Water. The main goal is to minimize flow of Rain Water through Drains/ Nallahs to the Rivers without making any use of the same. It is a known fact that the Ground Water level is depleting and going down and down in the last few decades. Thus Rain Water Harvesting & Conservation aims at optimum utilization of the natural resource, that is, Rain Water, which is the first form of water that we know in the hydrological cycle and hence is a primary source of water for us. The Rivers, Lakes and Ground Water are the secondary sources of water. In present times, in absence of Rain Water harvesting and conservation, we depend entirely on such secondary sources of water and in the process it is forgotten that rain is the ultimate source that feeds these secondary sources. The value of this important primary source of water must not be lost. Rain Water Harvesting & Conservation brings out the value of rain and to make optimum use of Rain Water at the place where it falls. There is great potential of rainwater harvesting through construction of recharge trenches cum recharge shafts/ wells along the available land along the Expressways/ National Highways/ State Highways/ Other roads of our country.

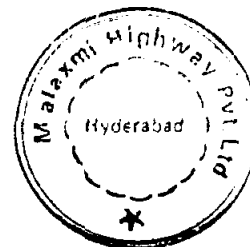
Therefore, Concessionaire has to design and construct a sound rain water harvesting system along the Project Road as per guidelines given in the CPWD Specifications on Rain Water Harvesting and Conservation and as approved by the IC/ NHA.

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.

20. Way Side Amenities

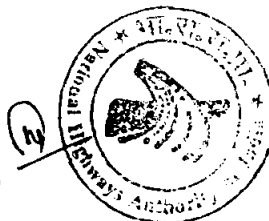
Wayside amenity shall be given as per table given below:

S.No.	Utility	Kilometer	Side
1	Rest House	581/000 to 581/700	Right
2	Truck Lay bye	584/350 to 584/750	Both
3	Weighing Station	595/930 to 595/965	Left
4	Bus Lay bye	551/400	Both
5	Bus Lay bye	583/500	Both
6	Toll Plaza	549/957 to 550/450	Both

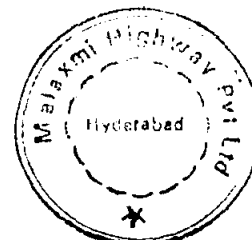


21. Truck Laybys/Bus Bays

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



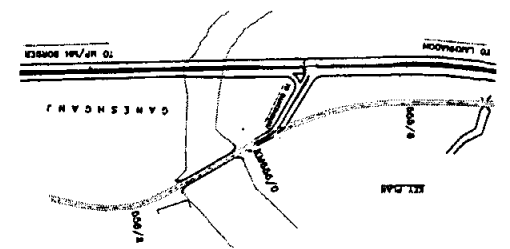
RFP BOT (Annuity) NS I/BOT/MP-2



B-13

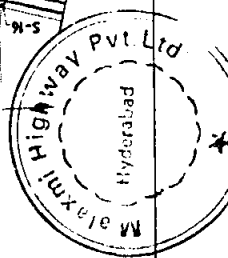
NATIONAL HIGHWAYS AUTHORITY OF INDIA

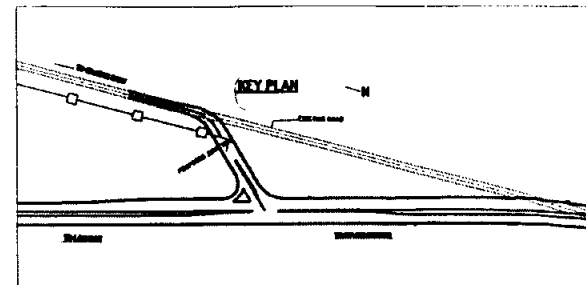
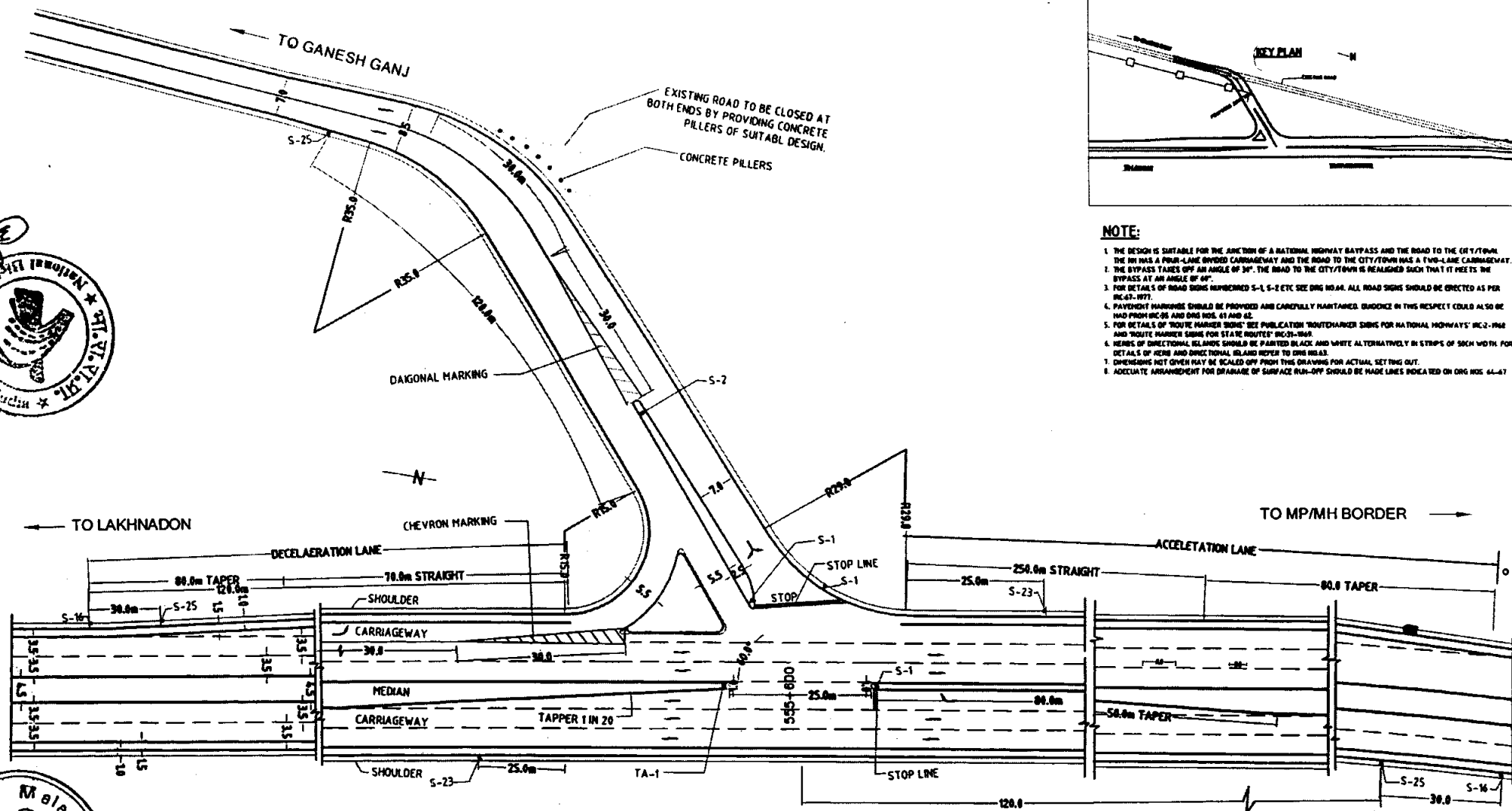
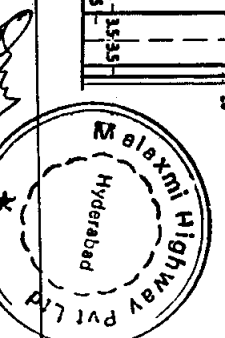
JUNCTION AT START OF GANESH GUNJ VILLAGE



NOTE:

- 1 THE DESIGN IS SUITABLE FOR THE APPLICATION ON NATIONAL HIGHWAY BYPASS AND THE ROAD TO THE CITY/TOWN
2 THE HIGHWAY IS SUITABLE FOR THE APPLICATION ON NATIONAL HIGHWAY BYPASS AND THE ROAD TO THE CITY/TOWN AS A
3 THE DESIGN IS SUITABLE FOR THE APPLICATION ON NATIONAL HIGHWAY BYPASS AND THE ROAD TO THE CITY/TOWN
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6 THE DESIGN IS SUITABLE FOR THE APPLICATION ON NATIONAL HIGHWAY BYPASS AND THE ROAD TO THE CITY/TOWN
7 THE DESIGN IS SUITABLE FOR THE APPLICATION ON NATIONAL HIGHWAY BYPASS AND THE ROAD TO THE CITY/TOWN
8 THE DESIGN IS SUITABLE FOR THE APPLICATION ON NATIONAL HIGHWAY BYPASS AND THE ROAD TO THE CITY/TOWN
9 THE DESIGN IS SUITABLE FOR THE APPLICATION ON NATIONAL HIGHWAY BYPASS AND THE ROAD TO THE CITY/TOWN
10 THE DESIGN IS SUITABLE FOR THE APPLICATION ON NATIONAL HIGHWAY BYPASS AND THE ROAD TO THE CITY/TOWN

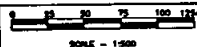




NOTE:

1. THE DESIGN IS SUITABLE FOR THE JUNCTION OF A NATIONAL HIGHWAY BYPASS AND THE ROAD TO THE CITY/TOWN. THE RH HAS A FOUR-LANE DIVIDED CARRIAGEWAY AND THE ROAD TO THE CITY/TOWN HAS A TWO-LANE CARRIAGEWAY.
2. THE BYPASS TAKES OFF AN ANGLE OF 34°. THE ROAD TO THE CITY/TOWN IS REALIGNED SUCH THAT IT MEETS THE BYPASS AT AN ANGLE OF 60°.
3. FOR DETAILS OF ROAD SIGNS REFERRED S-1, S-2 ETC SEE DRG NO. 44. ALL ROAD SIGNS SHOULD BE ERECTED AS PER IRC-67-1977.
4. PAVEMENT MARKINGS SHOULD BE PROVIDED AND CAREFULLY MAINTAINED. GUIDANCE IN THIS RESPECT COULD ALSO BE HAD FROM IRC-26 AND DRG NOS. 41 AND 42.
5. FOR DETAILS OF 'ROUTE MARKER SIGNS' SEE PUBLICATION 'ROUTE MARKER SIGNS FOR NATIONAL HIGHWAYS' IRC-2-1968 AND 'ROUTE MARKER SIGNS FOR STATE ROUTES' IRC-31-1968.
6. BARRIERS OF DIRECTIONAL ISLANDS SHOULD BE PAINTED BLACK AND WHITE ALTERNATIVELY IN STRIPS OF SUCH WIDTH FOR DETAILS OF BARRIERS AND DIRECTIONAL ISLAND REFER TO DRG NO. 43.
7. DIMENSIONS NOT GIVEN MAY BE SCALED OFF FROM THIS DRAWING FOR ACTUAL SETTING OUT.
8. ADEQUATE ARRANGEMENT FOR DRAINAGE OF SURFACE RUN-OFF SHOULD BE MADE LINES INDICATED ON DRG NOS. 44-47.

FIGURE B-6



CONSULTING ENGINEERS GROUP LTD.
E-12, May Colony, Hyderabad - 500 017
Tel: +91-11-25320898, 25320899, 25320898
Fax: 25320899, E-Mail: ceg@cegroupindia.com

NATIONAL HIGHWAYS AUTHORITY OF INDIA

4/6 LANEING OF LAKHMADON TO MP / MH BORDER
FROM KM 544 TO KM 652 ON NATIONAL HIGHWAY No.-7

JUNCTION AT END OF GANESH GANJ VILLAGE

CH - 555+600

Drawing No. NHAI/CH/MP/MH-7/10-11

Scale: 1:500

Drawn by: S. S. Srinivas

Checked by: S. S. Srinivas

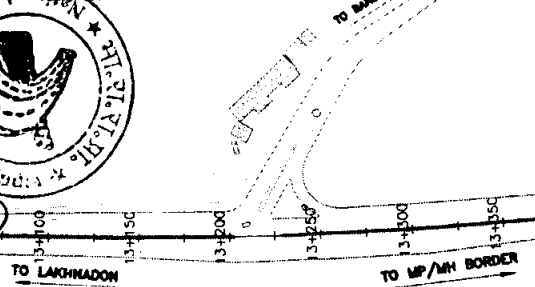
Approved by: S. S. Srinivas

Signature: S. S. Srinivas

Date: 10/11/2011



KEY PLAN



NOTE:

1. THE DESIGN IS SUITABLE FOR THE JUNCTION OF A NATIONAL HIGHWAY BYPASS AND THE ROAD TO THE CITY/TOWN. THE NH HAS A FOUR-LANE DIVIDED CARRIAGEWAY AND THE ROAD TO THE CITY/TOWN HAS A TWO-LANE CARRIAGEWAY.
2. THE BYPASS TAKES OFF AT AN ANGLE OF 30°. THE ROAD TO THE CITY/TOWN IS REALIGNED SUCH THAT IT MEETS THE BYPASS AT AN ANGLE OF 40°.
3. FOR DETAILS OF ROAD SIGNS NUMBERED S-1, S-2 ETC SEE DRG NO. 60. ALL ROAD SIGNS SHOULD BE ERECTED AS PER IRC-67-1977.
4. PAVEMENT HARRING SHOULD BE PROVIDED AND CAREFULLY MAINTAINED. GUIDANCE IN THIS RESPECT COULD ALSO BE HAD FROM IRC-25 AND DRG NOS. 41 AND 42.
5. FOR DETAILS OF 'ROUTE MARKER SIGNS' SEE PUBLICATION 'ROUTE MARKER SIGNS FOR NATIONAL HIGHWAYS' IRC-2-1948 AND 'ROUTE MARKER SIGNS FOR STATE ROUTES' IRC-3-1949.
6. KERBS OF DIRECTIONAL ISLANDS SHOULD BE PAINTED BLACK AND WHITE ALTERNATIVELY IN STRIPS OF 50CM WIDTH. FOR DETAILS OF KERB AND DIRECTIONAL ISLAND REFER TO DRG NO. 63.
7. DIMENSIONS NOT GIVEN MAY BE SCALED OFF FROM THIS DRAWING FOR ACTUAL SETTING OUT.
8. ADEQUATE ARRANGEMENT FOR DRAINAGE OF SURFACE RUN-OFF SHOULD BE MADE LINES INDICATED ON DRG NOS. 64-67.

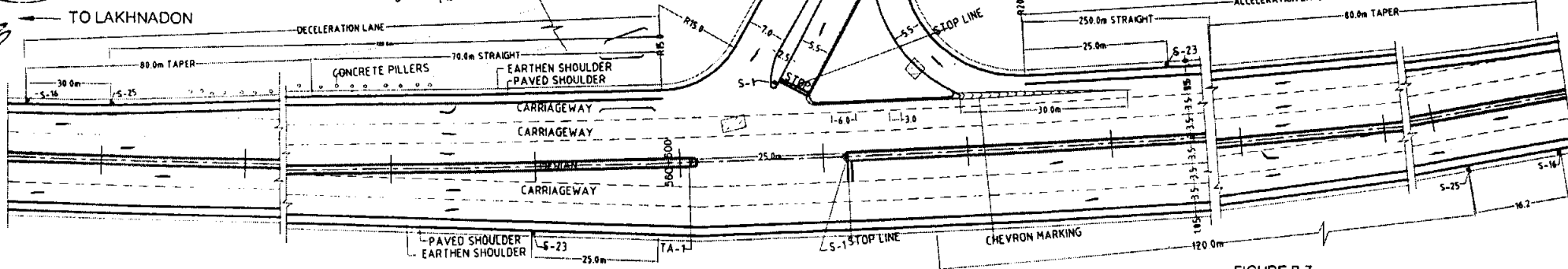
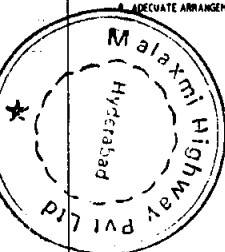
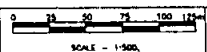


FIGURE B-7

REV	DATE	DESCRIPTION OF REVISION



CONSULTING ENGINEERS GROUP LTD.
E-12, Moh. Colony, Madhya Nagar, Jaipur-17
Tel: 91-141- 2520899, 2521099, 2520856
Fax: 2521099, E-Mail: engg@egroup.com

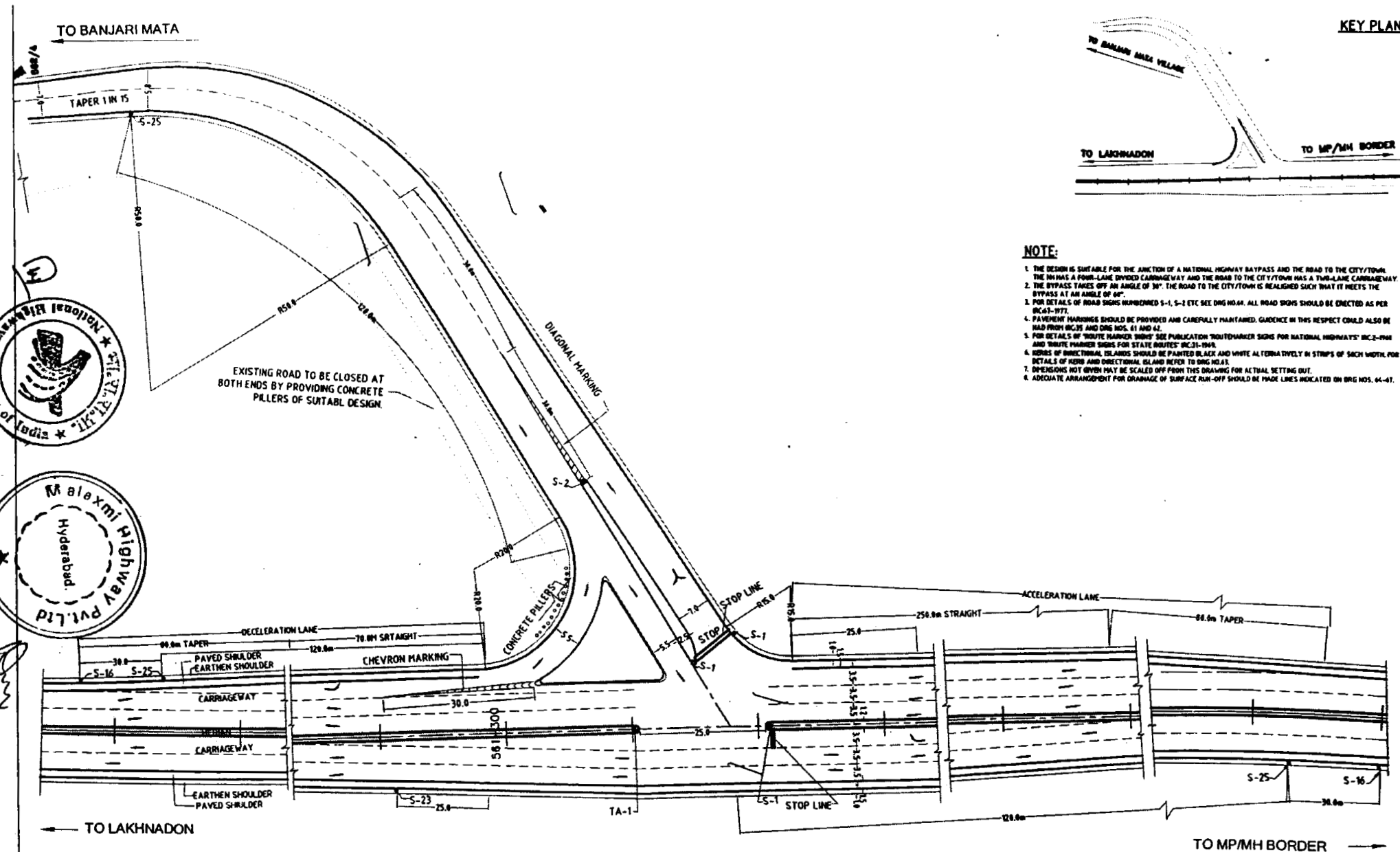
NATIONAL HIGHWAYS AUTHORITY OF INDIA

4th LANING OF LAKHNADON TO MP / MH BORDER
FROM KM 544 TO KM 632 ON NATIONAL HIGHWAY No. 7

JUNCTION AT START OF BANJARI MATA

CH: 560+600

DATE	BY	CHECKED BY	APPROVED BY



KEY PLAN

NOTE:

1. THE DESIGN IS SUITABLE FOR THE JUNCTION OF A NATIONAL HIGHWAY BYPASS AND THE ROAD TO THE CITY/TOWN. THE ROAD TO THE CITY/TOWN HAS A TWO-LANE CARRIAGEWAY.
2. THE BYPASS TAKES OFF AN ANGLE OF 30°. THE ROAD TO THE CITY/TOWN IS REALIGNED SUCH THAT IT MEETS THE BYPASS AT AN ANGLE OF 60°.
3. FOR DETAILS OF ROAD SIGNS NUMBERED S-1, S-2 ETC SEE DRG NO. 44. ALL ROAD SIGNS SHOULD BE ERECTED AS PER IRC-67-1977.
4. PAVEMENT MARKINGS SHOULD BE PROVIDED AND CAREFULLY MAINTAINED. GUIDANCE IN THIS RESPECT COULD ALSO BE HAD FROM IRC-39 AND DRG NOS. 41 AND 42.
5. FOR DETAILS OF "ROUTE MARKER SIGNS" SEE PUBLICATION "ROUTE MARKER SIGNS FOR NATIONAL HIGHWAYS" IRC-2-1969 AND "ROUTE MARKER SIGNS FOR STATE ROUTES" IRC-35-1969.
6. BARRIERS OF DIRECTIONAL ISLANDS SHOULD BE PAINTED BLACK AND WHITE ALTERNATIVELY IN STRIPS OF SUCH WIDTH FOR DETAILS OF FURTHER DIRECTIONAL ISLAND REFER TO DRG NO. 43.
7. DIMENSIONS NOT GIVEN MAY BE SCALED OFF FROM THIS DRAWING FOR ACTUAL SETTING OUT.
8. APPROPRIATE ARRANGEMENT FOR DRAINAGE OF SURFACE RUN-OFF SHOULD BE MADE LINES INDICATED ON DRG NOS. 44-47.

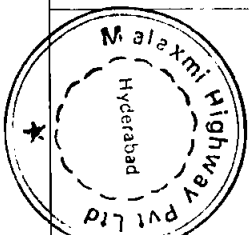
FIGURE B-8

<p>SCALE - 1:500</p>	<p>CONSULTING ENGINEERS GROUP LTD. E-123456, Connaught Place, New Delhi-17 Tel: +91-11-2320000, 2320001, 2320002 Fax: 2320003, E-mail: ceg@cegltd.com</p>	<p>NATIONAL HIGHWAYS AUTHORITY OF INDIA</p> <p>4/5 LANE OF LAKHONADON TO MP / MH BORDER FROM KM 544 TO KM 552 ON NATIONAL HIGHWAY No. 7</p>	<p>JUNCTION AT END OF BANJARI MATA</p> <p>CH: 561+300</p>	<p>PROJECT NO. NH/001/1999-00 DESIGN NO. 1 DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]</p>
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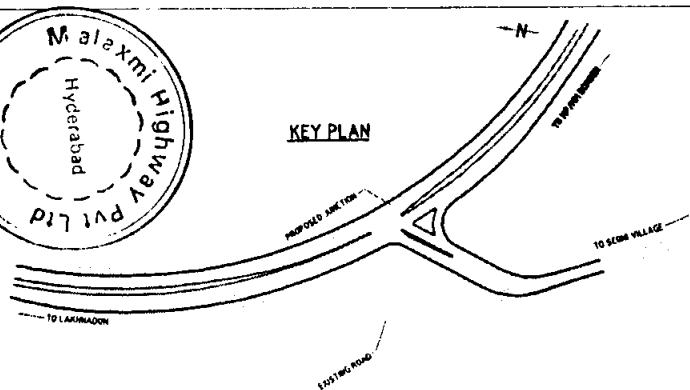


NOTE:

1. THE DESIGN IS SUITABLE FOR THE JUNCTION OF A NATIONAL HIGHWAY BYPASS AND THE ROAD TO THE CITY/TOWN. THE NH HAS A FOUR-LANE DIVIDED CARRIAGEWAY AND THE ROAD TO THE CITY/TOWN HAS A TWO-LANE CARRIAGEWAY.
2. THE BYPASS TAKES OFF AT AN ANGLE OF 34°. THE ROAD TO THE CITY/TOWN IS REALIGNED SUCH THAT IT MEETS THE BYPASS AT AN ANGLE OF 84°.
3. FOR DETAILS OF ROAD SIGNS NUMBERED S-1, S-2 ETC SEE DRG NO. 84. ALL ROAD SIGNS SHOULD BE ERECTED AS PER IRC-47-1973.
4. PAVEMENT MARKINGS SHOULD BE PROVIDED AND CAREFULLY MAINTAINED. GUIDANCE IN THIS RESPECT COULD ALSO BE HAD FROM IRC-35 AND DRG NOS. 41 AND 42.
5. FOR DETAILS OF ROUTE MARKER SIGNS SEE PUBLICATION 'ROUTE MARKER SIGNS FOR NATIONAL HIGHWAYS' IRC-2-1968 AND 'ROUTE MARKER SIGNS FOR STATE ROUTES' IRC-31-1968.
6. KERBS OF DIRECTIONAL ISLANDS SHOULD BE PAINTED BLACK AND WHITE ALTERNATIVELY IN STRIPS OF 50CM WIDTH. FOR DETAILS OF KERB AND DIRECTIONAL ISLAND REFER TO DRG NO. 43.
7. DIMENSIONS NOT GIVEN MAY BE SCALED OFF FROM THIS DRAWING FOR ACTUAL SETTING OUT.
8. ADEQUATE ARRANGEMENT FOR DRAINAGE OF SURFACE RUN-OFF SHOULD BE MADE AS INDICATED ON DRG NOS. 84-87.



KEY PLAN

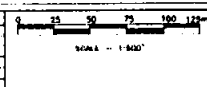


EXISTING ROAD TO BE CLOSED AT BOTH ENDS BY PROVIDING CONCRETE PILLERS OF SUITABLE DESIGN.

CONCRETE PILLERS

FIGURE B-9

NO.	REVISION	DATE	BY	CHECKED	APPROVED
1	ISSUED FOR TENDER	10/10/2008



CONSULTING ENGINEERS GROUP LTD.
E-12, Moh. Colony, Malviya Nagar, Jaipur-17
Tel: +91-141-2520998, 2521089, 2520356
Fax: 2521089, E-mail: ceg@cegindia.com

NATIONAL HIGHWAYS AUTHORITY OF INDIA

4/6 LANING OF LAKHNADON TO MP / MH BORDER
FROM KM 544 TO KM 852 ON NATIONAL HIGHWAY No-7

JUNCTION AT START OF CHAPARA VILLAGE

CH - 567+800

NO.	REVISION	DATE	BY	CHECKED	APPROVED
1	ISSUED FOR TENDER	10/10/2008

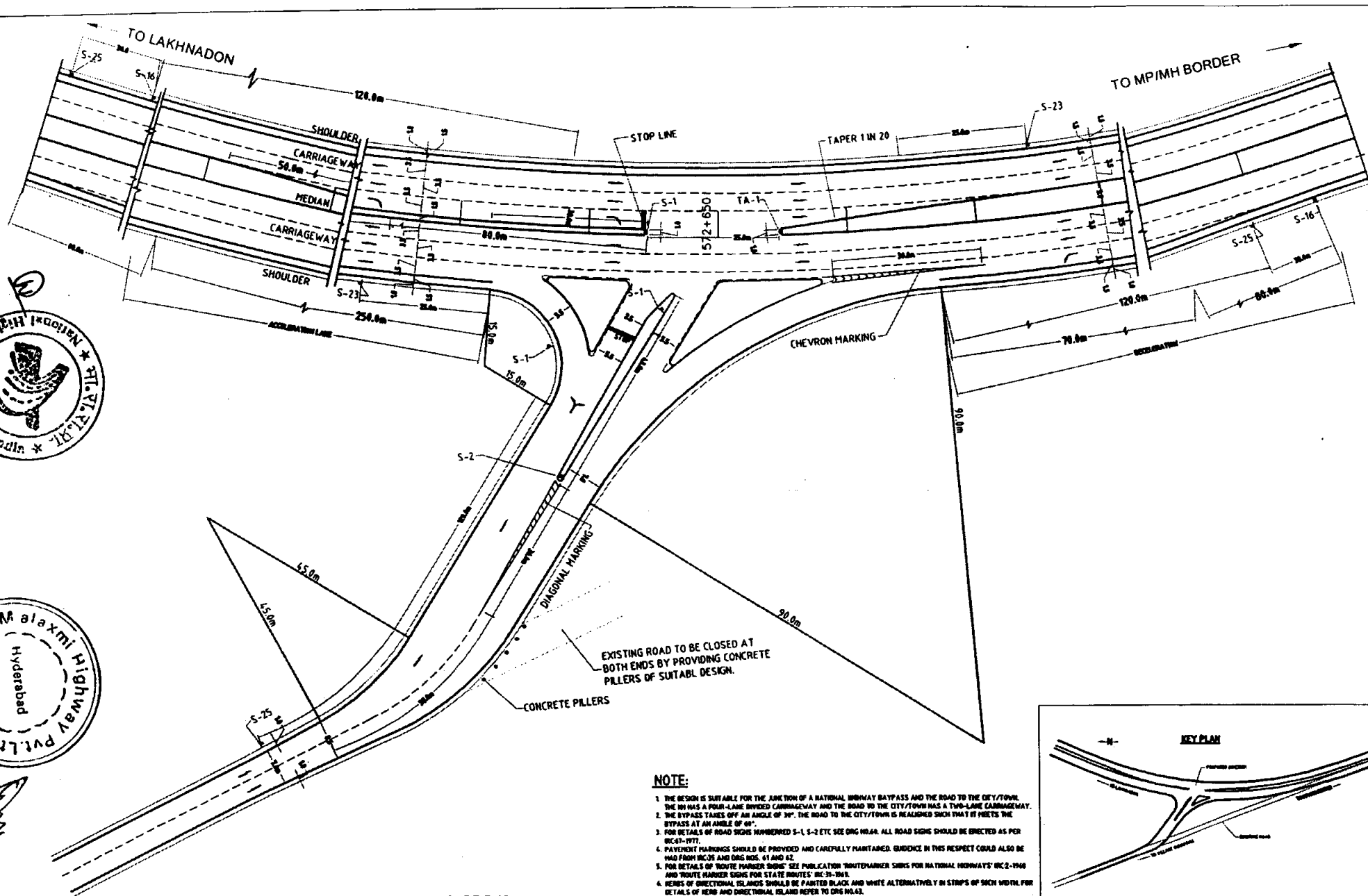
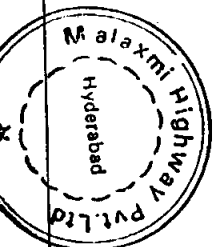
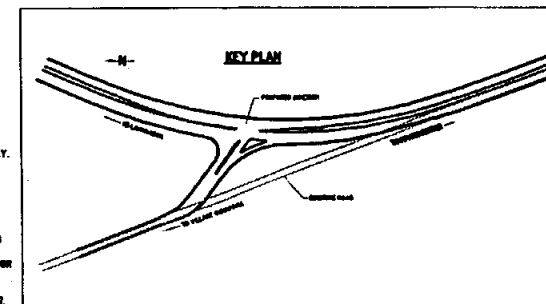


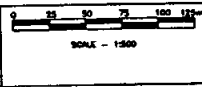
FIGURE B-10

NOTE:

1. THE DESIGN IS SUITABLE FOR THE JUNCTION OF A NATIONAL HIGHWAY BYPASS AND THE ROAD TO THE CITY/TOWN. THE BH WAS A FOUR-LANE DIVIDED CARRIAGEWAY AND THE ROAD TO THE CITY/TOWN WAS A TWO-LANE CARRIAGEWAY.
2. THE BYPASS TAKES OFF AN ANGLE OF 30°. THE ROAD TO THE CITY/TOWN IS REALIGNED SUCH THAT IT MEETS THE BYPASS AT AN ANGLE OF 60°.
3. FOR DETAILS OF ROAD SIGNS NUMBERED S-1, S-2 ETC SEE DRG NO.44. ALL ROAD SIGNS SHOULD BE ERECTED AS PER IRC-67-1977.
4. PAVEMENT MARKINGS SHOULD BE PROVIDED AND CAREFULLY MAINTAINED. GUIDANCE IN THIS RESPECT COULD ALSO BE HAD FROM IRC-65 AND DRG NOS. 61 AND 62.
5. FOR DETAILS OF 'ROUTE MARKER SIGNS' SEE PUBLICATION 'ROUTE MARKER SIGNS FOR NATIONAL HIGHWAYS' IRC-2-1968 AND 'ROUTE MARKER SIGNS FOR STATE ROUTES' IRC-35-1968.
6. ENDS OF DIRECTIONAL ISLANDS SHOULD BE PAINTED BLACK AND WHITE ALTERNATIVELY IN STRIPS OF SUCH WIDTH FOR DETAILS OF REIN AND DIRECTIONAL ISLAND REFER TO DRG NO.43.
7. DIMENSIONS NOT GIVEN MAY BE SCALED OFF FROM THIS DRAWING FOR ACTUAL SETTING OUT.
8. ADEQUATE ARRANGEMENT FOR DRAINAGE OF SURFACE RUN-OFF SHOULD BE MADE LINES INDICATED ON DRG NOS. 64-67.



REV	DATE	DESCRIPTION OF REVISIONS



CEG CONSULTING ENGINEERS GROUP LTD.
 E-12, Mid-City, Malviya Nagar, Jaipur-17
 Tel: 491-141-232099, 2321006, 2320556
 Fax: 2321089, E-Mail: ceg@cegindia.com

NATIONAL HIGHWAYS AUTHORITY OF INDIA
 4/8 LANING OF LAKHNADON TO MP / MH BORDER
 FROM KM 544 TO KM 652 ON NATIONAL HIGHWAY No.-7

JUNCTION AT END OF CHAPARA VILLAGE
 CH - 572+650

NO.	DATE	BY	CHECKED BY	DATE	BY	DATE	BY



C E G CONSULTING
ENGINEERS GROUP LTD.
F 12, Mid Century, Ministry Nagar, Jaipur-17
Tel: +91-141- 2520899, 2521899, 2520355
Fax: 2521899, E-Mail: ceg@ceg-india.com

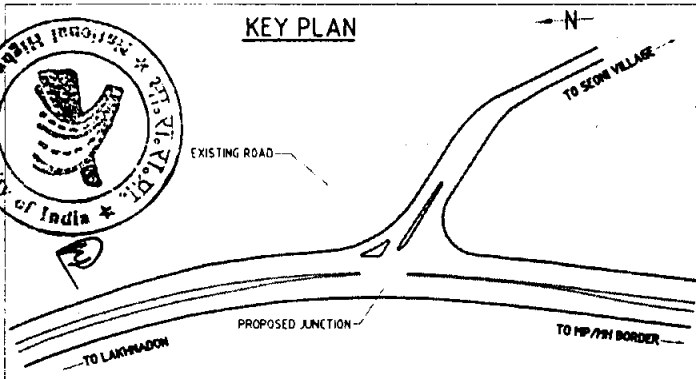
4/M LANING OF LAKINADON TO MP / MH BORDER
FROM KM 544 TO KM 852 ON NATIONAL HIGHWAY No.-7

CH - 589+150

DRAWING NO. 1000/CBL/100-7/10-00			
DESIGNED BY	CHECKED BY	DESIGNED BY	CHECKED BY
PLATE 1000	1000	1000	1000



KEY PLAN



NOTE:

1. THE DESIGN IS SUITABLE FOR THE JUNCTION OF A NATIONAL HIGHWAY BYPASS AND THE ROAD TO THE CITY/TOWN. THE NH HAS A FOUR-LANE DIVIDED CARRIAGEWAY AND THE ROAD TO THE CITY/TOWN HAS A TWO-LANE CARRIAGEWAY.
2. THE BYPASS TAKES OFF AT AN ANGLE OF 34°. THE ROAD TO THE CITY/TOWN IS REALIGNED SUCH THAT IT MEETS THE BYPASS AT AN ANGLE OF 60°.
3. FOR DETAILS OF ROAD SIGNS NUMBERED S-1, S-2 ETC SEE DRG NO 64. ALL ROAD SIGNS SHOULD BE ERECTED AS PER IRC-1975.
4. PAVEMENT MARKINGS SHOULD BE PROVIDED AND CAREFULLY MAINTAINED. GUIDANCE IN THIS RESPECT COULD ALSO BE HAD FROM IRC-35 AND DRG NOS. 61 AND 62.
5. FOR DETAILS OF 'ROUTE MARKER SIGNS' SEE PUBLICATION 'ROUTE MARKER SIGNS FOR NATIONAL HIGHWAYS' IRC-2-1968 AND 'ROUTE MARKER SIGNS FOR STATE ROUTES' IRC-3-1968.
6. KERBS OF DIRECTIONAL ISLANDS SHOULD BE PAINTED BLACK AND WHITE ALTERNATIVELY IN STRIPS OF 50CM WIDTH FOR DETAILS OF KERB AND DIRECTIONAL ISLAND REFER TO DRG NO 63.
7. DIMENSIONS NOT GIVEN MAY BE SCALED OFF FROM THIS DRAWING FOR ACTUAL SETTING OUT.
8. ADEQUATE ARRANGEMENT FOR DRAINAGE OF SURFACE RUN-OFF SHOULD BE MADE. LINES INDICATED ON DRG NOS. 44-47.

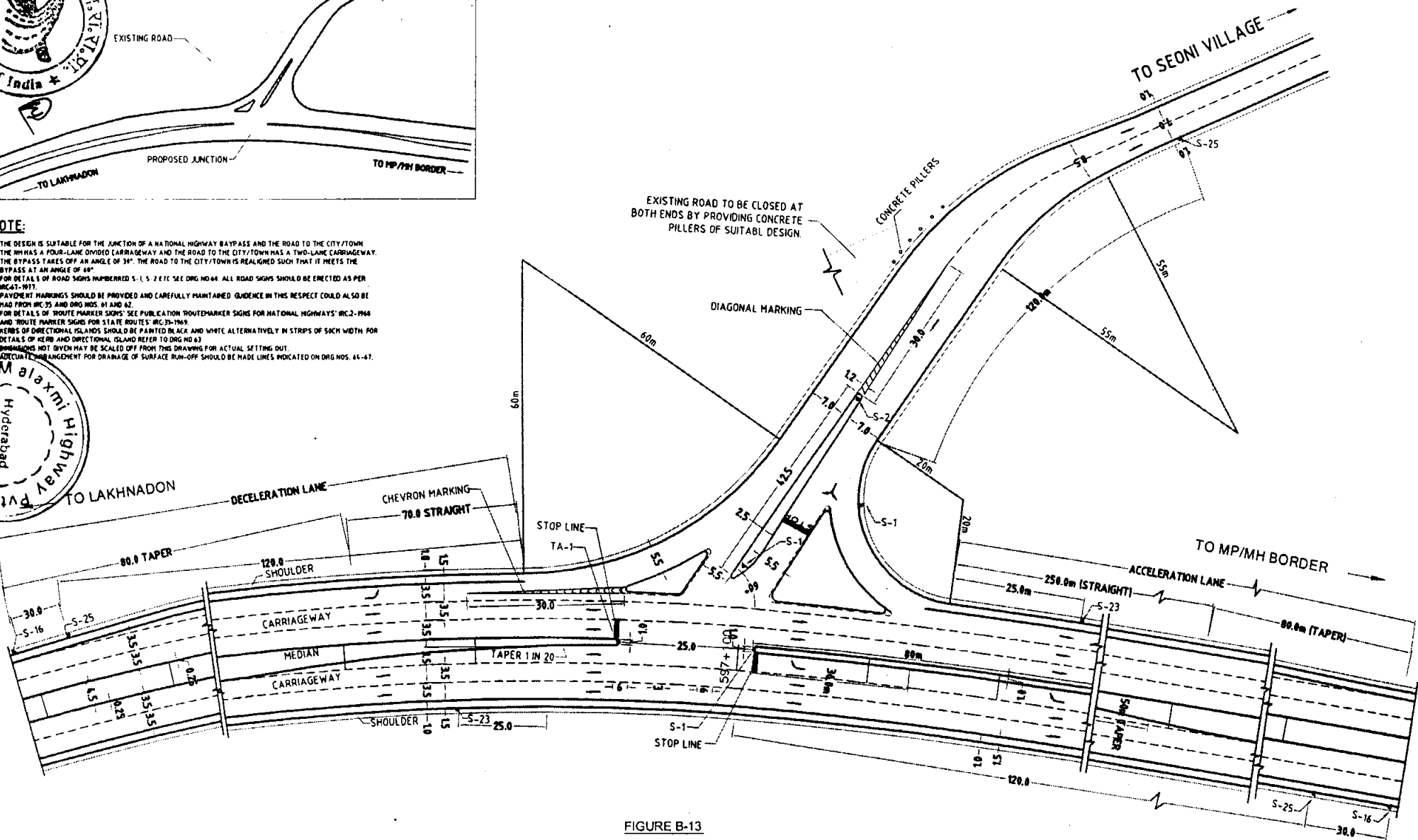
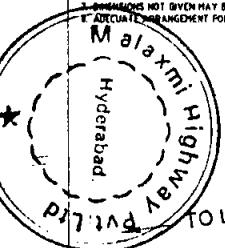


FIGURE B-13

CONSULTING
ENGINEERS GROUP LTD.

1-12, Noida Colony, Madhya Nagar, Jaipur-17
Tel: +91-141-2520099, 2521098, 2520098
Fax: 2521099, E-Mail: ceg@ceg-india.com

NATIONAL HIGHWAYS AUTHORITY OF INDIA

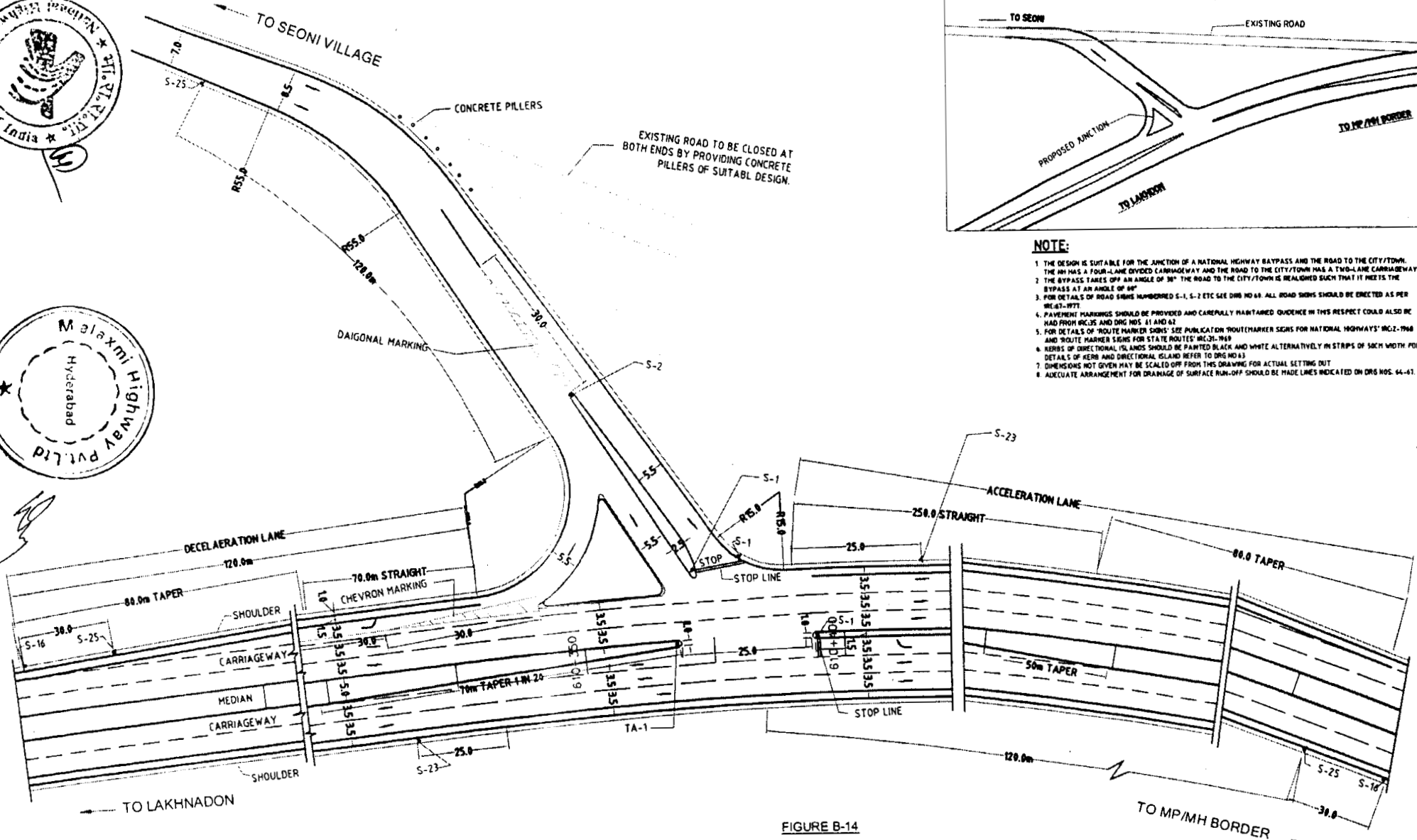
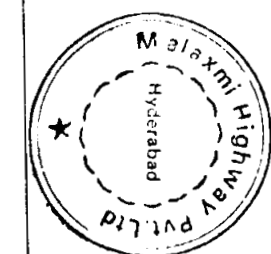
4th LANING OF LAKHNADON TO MP / MH BORDER
FROM KM 544 TO KM 652 ON NATIONAL HIGHWAY No.7

JUNCTION AT START OF SEONI VILLAGE

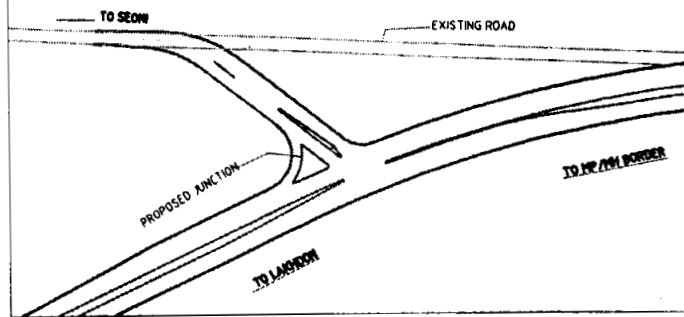
CH - 597+100

DRAWING NO. 1 NHAI/CEG/MP-7/21-00

SCALE	DATE	DESIGNED BY	CHECKED BY	APPROVED BY
1:1000	10/10/00



KEY PLAN



NOTE:

- 1 THE DESIGN IS SUITABLE FOR THE JUNCTION OF A NATIONAL HIGHWAY BYPASS AND THE ROAD TO THE CITY/TOWN.
2 THE JN HAS A FOUR-LANE DIVIDED CARRIAGEWAY AND THE ROAD TO THE CITY/TOWN HAS A TWO-LANE CARRIAGEWAY.
3 THE BYPASS TAKES OFF AN ANGLE OF 38° TO THE CITY/TOWN ROAD WHICH IS WEIGHED SUCH THAT IT MEETS THE
4 REQUIREMENTS OF AN ADEQUATE JN.
5 FOR DETAILS OF ROAD SIGN NUMBERED 5-1, 5-2, 5-3, 5-4, 5-5, 5-6, 5-7, 5-8, 5-9, 5-10, 5-11, 5-12, 5-13, 5-14, 5-15, 5-16, 5-17, 5-18, 5-19, 5-20, 5-21, 5-22, 5-23, 5-24, 5-25, 5-26, 5-27, 5-28, 5-29, 5-30, 5-31, 5-32, 5-33, 5-34, 5-35, 5-36, 5-37, 5-38, 5-39, 5-40, 5-41, 5-42, 5-43, 5-44, 5-45, 5-46, 5-47, 5-48, 5-49, 5-50, 5-51, 5-52, 5-53, 5-54, 5-55, 5-56, 5-57, 5-58, 5-59, 5-60, 5-61, 5-62, 5-63, 5-64, 5-65, 5-66, 5-67, 5-68, 5-69, 5-70, 5-71, 5-72, 5-73, 5-74, 5-75, 5-76, 5-77, 5-78, 5-79, 5-80, 5-81, 5-82, 5-83, 5-84, 5-85, 5-86, 5-87, 5-88, 5-89, 5-90, 5-91, 5-92, 5-93, 5-94, 5-95, 5-96, 5-97, 5-98, 5-99, 6-1, 6-2, 6-3, 6-4, 6-5, 6-6, 6-7, 6-8, 6-9, 6-10, 6-11, 6-12, 6-13, 6-14, 6-15, 6-16, 6-17, 6-18, 6-19, 6-20, 6-21, 6-22, 6-23, 6-24, 6-25, 6-26, 6-27, 6-28, 6-29, 6-30, 6-31, 6-32, 6-33, 6-34, 6-35, 6-36, 6-37, 6-38, 6-39, 6-40, 6-41, 6-42, 6-43, 6-44, 6-45, 6-46, 6-47, 6-48, 6-49, 6-50, 6-51, 6-52, 6-53, 6-54, 6-55, 6-56, 6-57, 6-58, 6-59, 6-60, 6-61, 6-62, 6-63, 6-64, 6-65, 6-66, 6-67, 6-68, 6-69, 6-70, 6-71, 6-72, 6-73, 6-74, 6-75, 6-76, 6-77, 6-78, 6-79, 6-80, 6-81, 6-82, 6-83, 6-84, 6-85, 6-86, 6-87, 6-88, 6-89, 6-90, 6-91, 6-92, 6-93, 6-94, 6-95, 6-96, 6-97, 6-98, 6-99, 7-1, 7-2, 7-3, 7-4, 7-5, 7-6, 7-7, 7-8, 7-9, 7-10, 7-11, 7-12, 7-13, 7-14, 7-15, 7-16, 7-17, 7-18, 7-19, 7-20, 7-21, 7-22, 7-23, 7-24, 7-25, 7-26, 7-27, 7-28, 7-29, 7-30, 7-31, 7-32, 7-33, 7-34, 7-35, 7-36, 7-37, 7-38, 7-39, 7-40, 7-41, 7-42, 7-43, 7-44, 7-45, 7-46, 7-47, 7-48, 7-49, 7-50, 7-51, 7-52, 7-53, 7-54, 7-55, 7-56, 7-57, 7-58, 7-59, 7-60, 7-61, 7-62, 7-63, 7-64, 7-65, 7-66, 7-67, 7-68, 7-69, 7-70, 7-71, 7-72, 7-73, 7-74, 7-75, 7-76, 7-77, 7-78, 7-79, 7-80, 7-81, 7-82, 7-83, 7-84, 7-85, 7-86, 7-87, 7-88, 7-89, 7-90, 7-91, 7-92, 7-93, 7-94, 7-95, 7-96, 7-97, 7-98, 7-99, 8-1, 8-2, 8-3, 8-4, 8-5, 8-6, 8-7, 8-8, 8-9, 8-10, 8-11, 8-12, 8-13, 8-14, 8-15, 8-16, 8-17, 8-18, 8-19, 8-20, 8-21, 8-22, 8-23, 8-24, 8-25, 8-26, 8-27, 8-28, 8-29, 8-30, 8-31, 8-32, 8-33, 8-34, 8-35, 8-36, 8-37, 8-38, 8-39, 8-40, 8-41, 8-42, 8-43, 8-44, 8-45, 8-46, 8-47, 8-48, 8-49, 8-50, 8-51, 8-52, 8-53, 8-54, 8-55, 8-56, 8-57, 8-58, 8-59, 8-60, 8-61, 8-62, 8-63, 8-64, 8-65, 8-66, 8-67, 8-68, 8-69, 8-70, 8-71, 8-72, 8-73, 8-74, 8-75, 8-76, 8-77, 8-78, 8-79, 8-80, 8-81, 8-82, 8-83, 8-84, 8-85, 8-86, 8-87, 8-88, 8-89, 8-90, 8-91, 8-92, 8-93, 8-94, 8-95, 8-96, 8-97, 8-98, 8-99, 9-1, 9-2, 9-3, 9-4, 9-5, 9-6, 9-7, 9-8, 9-9, 9-10, 9-11, 9-12, 9-13, 9-14, 9-15, 9-16, 9-17, 9-18, 9-19, 9-20, 9-21, 9-22, 9-23, 9-24, 9-25, 9-26, 9-27, 9-28, 9-29, 9-30, 9-31, 9-32, 9-33, 9-34, 9-35, 9-36, 9-37, 9-38, 9-39, 9-40, 9-41, 9-42, 9-43, 9-44, 9-45, 9-46, 9-47, 9-48, 9-49, 9-50, 9-51, 9-52, 9-53, 9-54, 9-55, 9-56, 9-57, 9-58, 9-59, 9-60, 9-61, 9-62, 9-63, 9-64, 9-65, 9-66, 9-67, 9-68, 9-69, 9-70, 9-71, 9-72, 9-73, 9-74, 9-75, 9-76, 9-77, 9-78, 9-79, 9-80, 9-81, 9-82, 9-83, 9-84, 9-85, 9-86, 9-87, 9-88, 9-89, 9-90, 9-91, 9-92, 9-93, 9-94, 9-95, 9-96, 9-97, 9-98, 9-99, 10-1, 10-2, 10-3, 10-4, 10-5, 10-6, 10-7, 10-8, 10-9, 10-10, 10-11, 10-12, 10-13, 10-14, 10-15, 10-16, 10-17, 10-18, 10-19, 10-20, 10-21, 10-22, 10-23, 10-24, 10-25, 10-26, 10-27, 10-28, 10-29, 10-30, 10-31, 10-32, 10-33, 10-34, 10-35, 10-36, 10-37, 10-38, 10-39, 10-40, 10-41, 10-42, 10-43, 10-44, 10-45, 10-46, 10-47, 10-48, 10-49, 10-50, 10-51, 10-52, 10-53, 10-54, 10-55, 10-56, 10-57, 10-58, 10-59, 10-60, 10-61, 10-62, 10-63, 10-64, 10-65, 10-66, 10-67, 10-68, 10-69, 10-70, 10-71, 10-72, 10-73, 10-74, 10-75, 10-76, 10-77, 10-78, 10-79, 10-80, 10-81, 10-82, 10-83, 10-84, 10-85, 10-86, 10-87, 10-88, 10-89, 10-90, 10-91, 10-92, 10-93, 10-94, 10-95, 10-96, 10-97, 10-98, 10-99, 11-1, 11-2, 11-3, 11-4, 11-5, 11-6, 11-7, 11-8, 11-9, 11-10, 11-11, 11-12, 11-13, 11-14, 11-15, 11-16, 11-17, 11-18, 11-19, 11-20, 11-21, 11-22, 11-23, 11-24, 11-25, 11-26, 11-27, 11-28, 11-29, 11-30, 11-31, 11-32, 11-33, 11-34, 11-35, 11-36, 11-37, 11-38, 11-39, 11-40, 11-41, 11-42, 11-43, 11-44, 11-45, 11-46, 11-47, 11-48, 11-49, 11-50, 11-51, 11-52, 11-53, 1

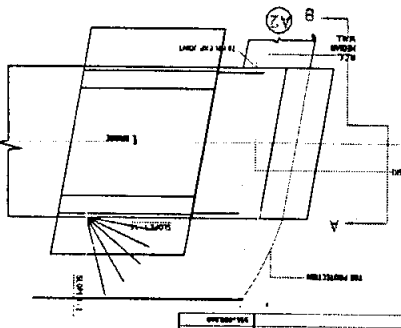
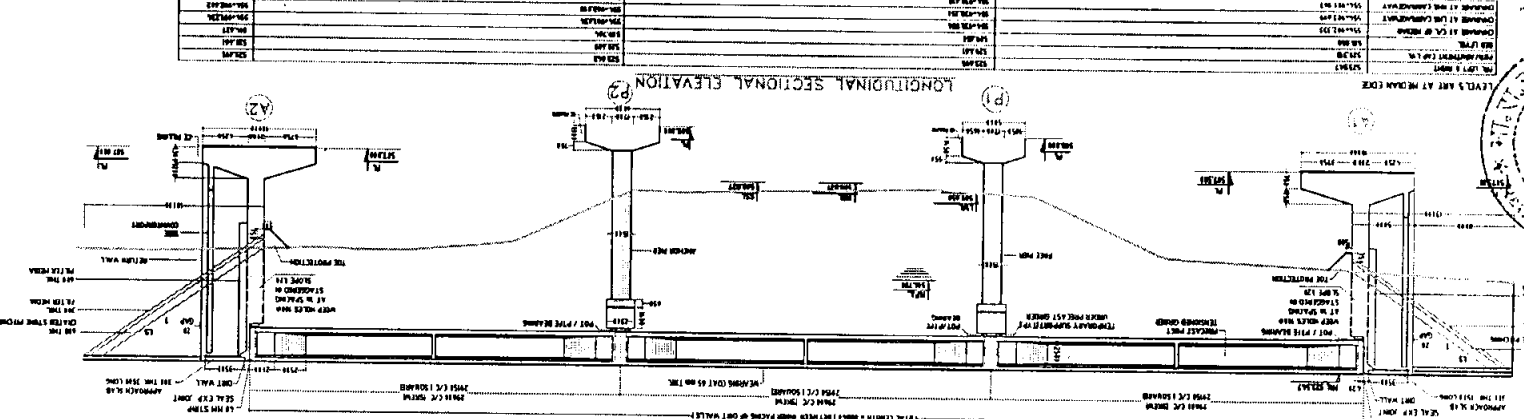
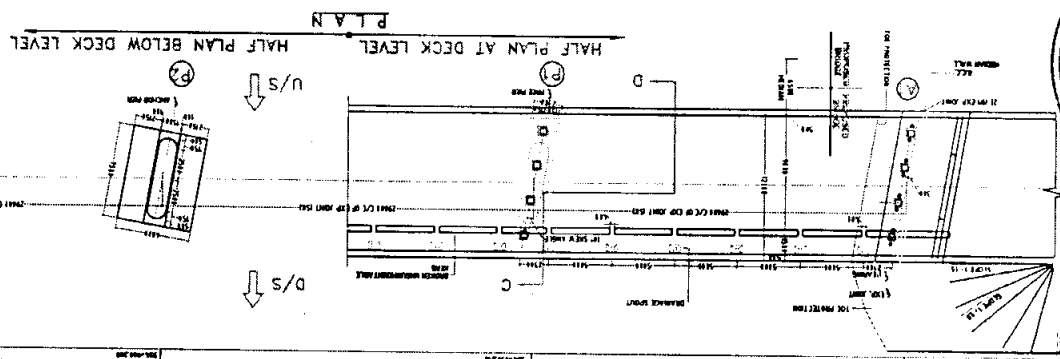
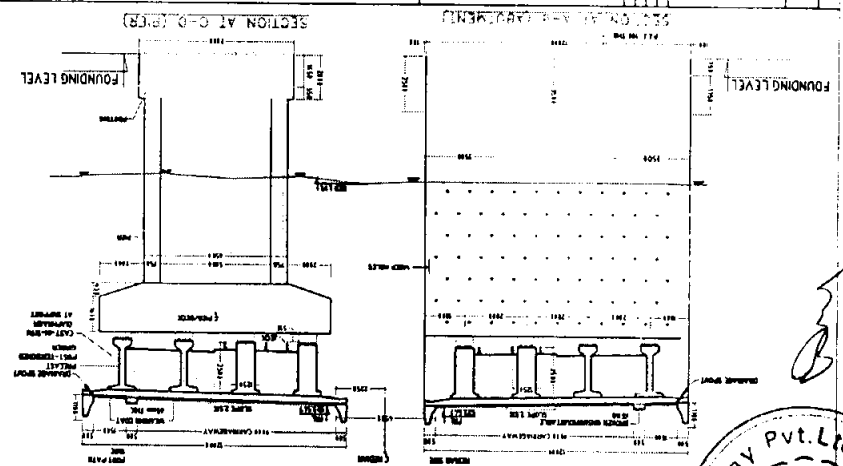
NO.	REVISION	DATE
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CONSULTING
ENGINEERS GROUP LTD.
E-12/43, Connaught Place, New Delhi-11
Tel: 2611-1511, 2611-1512, 2611-1513
Fax: 2611-1514, 2611-1515, 2611-1516

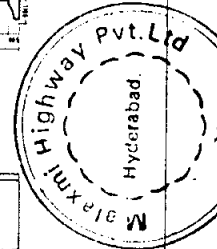
NATIONAL HIGHWAYS AUTHORITY OF INDIA
DRAWING OF LAKHNAU TO MP/MH BORDER
FROM KM 54.40 TO KM 55.20 OF NH 7

GENERAL ARRANGEMENT DRAWING
NEW 4 LANE BRIDGE
AT CH 54.40 (PACKAGE 1)
(BRIDGE NO 556/2)

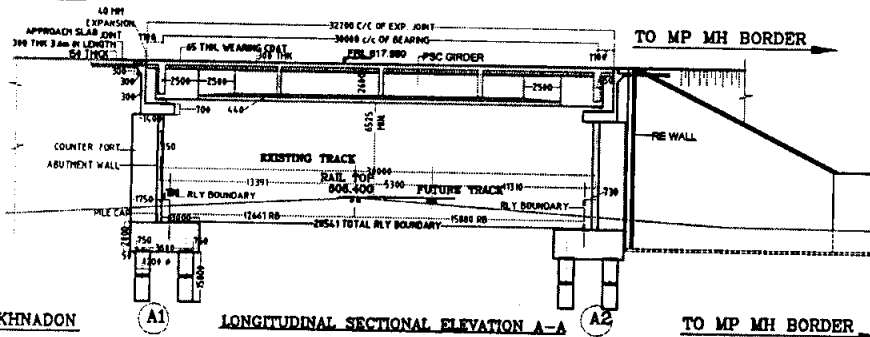
DRG. NO B 15



- REF. :-
1. LOW WATER LEVEL - L.W.
 2. HIGH WATER LEVEL - H.W.
 3. MEAN TIDE LEVEL - M.T.L.
 4. FLOODING LEVEL - F.L.
 5. FLOODING LEVEL - F.L.
 6. FLOODING LEVEL - F.L.
- FOR TENDER PURPOSE ONLY
- NOTES :-
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS SHALL BE FOLLOWED.
 3. FOR DETAILS OF STRUCTURAL COMPONENTS REFER TO SEPARATE DRAWINGS.
 4. THE FOUNDATION LEVEL SHOWN IN THIS DRAWING ARE BASED ON THE SOIL INVESTIGATIONS CARRIED OUT. THESE ARE TO BE VERIFIED AT SITE BASED ON THE COMPARISON OF SOIL INVESTIGATIONS WITH THE DESIGN OF WORK. IF THERE ARE MAJOR VARIATIONS, THE DESIGN OF FOUNDATION SHOULD BE REVISED.
 5. FOUNDATION OF BRIDGE IS BASED ON THE SAFE BEARING CAPACITY AS PER DESIGN.
 6. APPROXIMATE 10% TO 15% ALLOWANCE FOR SETTLEMENT OF FOUNDATION SHALL BE PROVIDED AS PER MANUFACTURE DETAILS.
 7. ALL UNSTATED REQUIREMENTS SHALL BE THE TWO MECHANICALLY TREATED LINTS BARS OF GRADE IV S CONFORMING TO IS 1786.
 8. THE DIMENSIONS LEVELS INDICATED ARE TENTATIVE AND MAY UNDERGO SOME CHANGES.
 9. FOR 5 PCT CUM PILE BEARINGS SHALL BE PROVIDED AS PER MANUFACTURE DETAILS.
 10. C/P PILING SHOULD BE DONE UP TO FOUNDATION AND BUILT WITH CENT GROUT SHOULD BE DONE UP TO THE TOP OF SOFT WEATHERED ROCK LEVEL.
 11. THE ROCK SHALL BE STARTED FROM TOP OF ROCK LEVEL OF ROCK.
 12. REVERSE SLOPE OF BACK FILL SHOULD NOT BE LESS THAN 30° (i.e. 1:1.73).
 13. GRADE OF CONCRETE FOR DIFFERENT COMPONENTS ARE AS FOLLOWS:-
 14. FOUNDATION - M-35
 15. SUB STRUCTURE AND - M-35
 16. CHAIR BARBERS - M-35
 17. SURVEY STAKING AND CONCERN - M-35
 18. APPROACH SLAB - M-35
 19. PCC - M-35
 20. THE DIMENSIONS AND LEVELS INDICATED ARE TENTATIVE AND MAY UNDERGO SOME CHANGES.



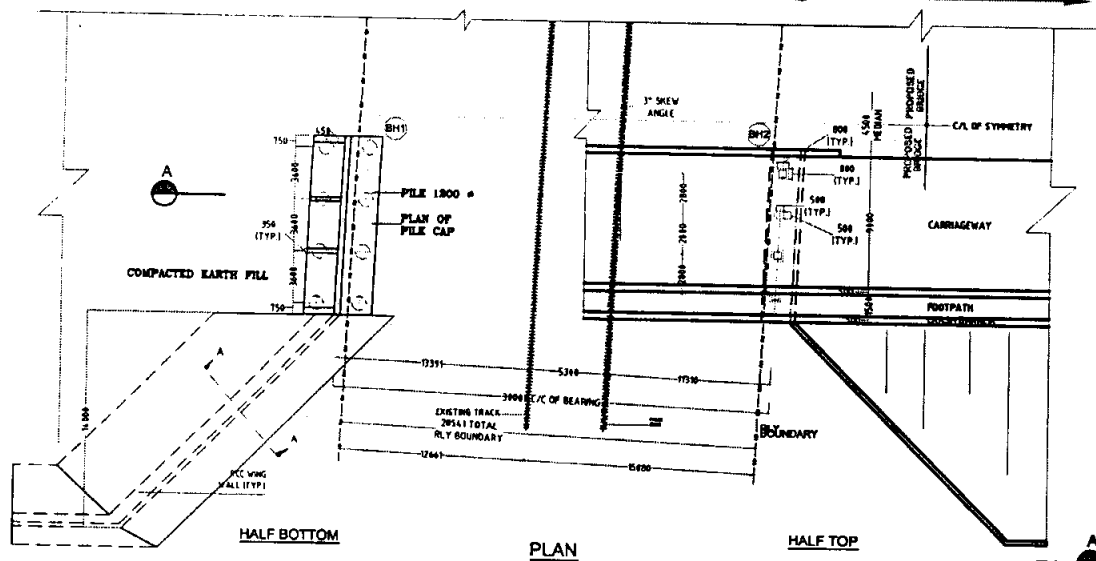
TO LAKHNADON



TO MP MH BORDER

TO LAKHNADON

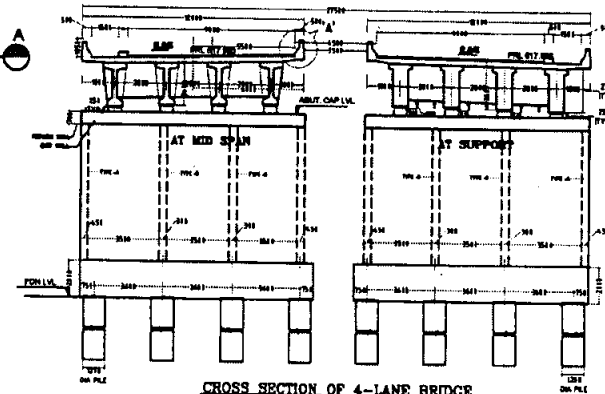
TO MP MH BORDER



HALF BOTTOM

PLAN

HALF TOP



NOTES :-

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED. LEVELS ARE IN METRES.
2. WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. FOR DETAILS OF DIFFERENT COMPONENTS REFER RELEVANT DRAWING.
4. THE FOUNDATION LEVEL SHOWN IN THIS DRAWING ARE BASED ON THE SUB SOIL INVESTIGATIONS CARRIED OUT. THESE ARE TO BE VERIFIED AT SITE BASED ON THE COMPENSATORY SUB SOIL INVESTIGATIONS PRIOR TO COMMENCEMENT OF WORK. IF THERE ARE MAJOR VARIATIONS, THE DESIGN OF FOUNDATION WOULD BE REVIEWED.
5. FOUNDATION DESIGN IS BASED ON THE SAFE BEARING CAPACITY IS AS FOLLOWS
 (a) ANCHOR PIER 40 T/M²
 (b) FREE PIER 40 T/M²
 (c) ABUTMENT 40 T/M²
6. BRIDGE IS SITUATED IN SEISMIC ZONE - II.
7. ALL UNDESIGNED REINFORCEMENT SHALL BE TIED MECHANICALLY TREATED (TMT) BARS OF GRADE Fe 415 CONFORMING TO IS 1786.
8. THE DIMENSIONS LEVELS INDICATED ARE TENTATIVE AND MAY UNDERGO SOME CHANGES.
9. POT & POT CUM PILE BEARINGS SHALL BE PROVIDED AS PER MANUFACTURE DETAILS.
10. CC FILLING SHOULD BE DONE UP TO FOUNDATION AND BOLLER WITH CEMENT GROUT SHOULD BE DONE UP TO THE TOP OF SOFT WEATHERED ROCK LEVEL.
11. FILTER MEDIA SHALL BE STARTED FROM TOP OF ROCK LEVEL OF ROCK.
12. REPOSE ANGLE OF BACK FILL SHOULD NOT BE LESS THAN 30° (i.e. 1V:1.73H).
13. GRADE OF CONCRETE FOR DIFFERENT COMPONENTS ARE AS FOLLOWS:-
 1. FOUNDATION - M-35
 2. SUB STRUCTURE BRCS - M-35
 3. SUPER STRUCTURE (PSC GIRDERS) - M-40
 4. CRASH BARRIER - M-40
 5. APPROACH SLAB - M-30
 6. PCC - M-15
14. THE DIMENSIONS AND LEVELS INDICATED ARE TENTATIVE AND MAY UNDERGO SOME CHANGES.
15. BACK FILL BEHIND ABUTMENTS SHALL BE CARRIED OUT SIMULTANEOUSLY ALONG WITH CONSTRUCTION OF ABUTMENT WALL, UP TO TOP OF ABUTMENT CAP.

REF. :-

1. LOW WATER LEVEL = L.W.L.
2. HIGH FLOOD LEVEL = H.F.L.
3. MAXIMUM SCOUR LEVEL = M.S.L.
4. SEISMIC SCOUR LEVEL = S.S.L.
5. FOUNDATION LEVEL = F.L.
6. FINISHED ROAD LEVEL = F.R.L.

FOR TENDER PURPOSE ONLY

DRG. NO B 17

CONSULTING ENGINEERS GROUP LTD.
 2-12, Moh. Colony, Malviya Nagar, Jaipur-17
 Tel: 0141-2510899, 2510898, 2520558
 Fax: 251348, E-Mail: ce@cegroup.co

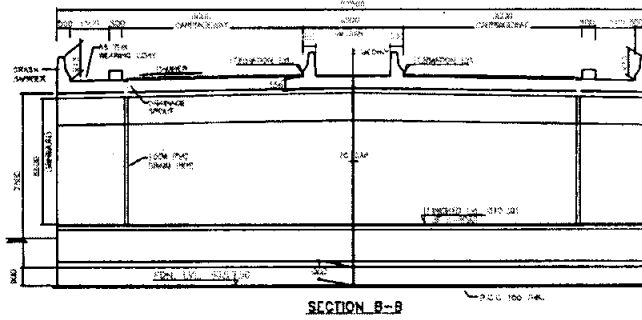
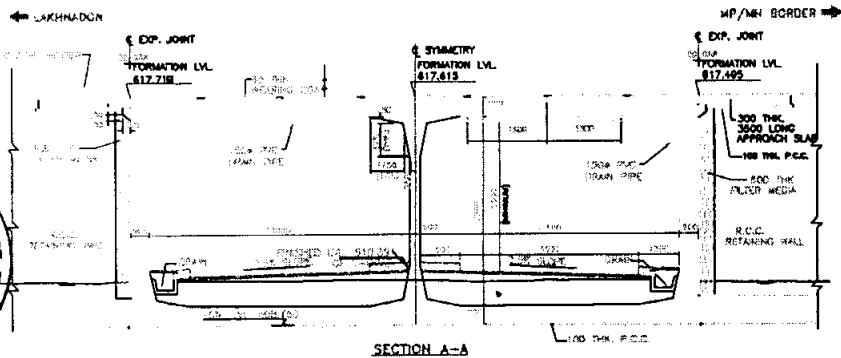
NATIONAL HIGHWAYS AUTHORITY OF INDIA
 (Ministry of Surface Transport)

4/6 LANING OF LAKHNADON TO MP/MH BORDER
 FROM KM 544/0 TO KM 652/0 OF NH 7

GENERAL ARRANGEMENT DRAWING

ROB AT CH 605+988 (PACKAGE I)

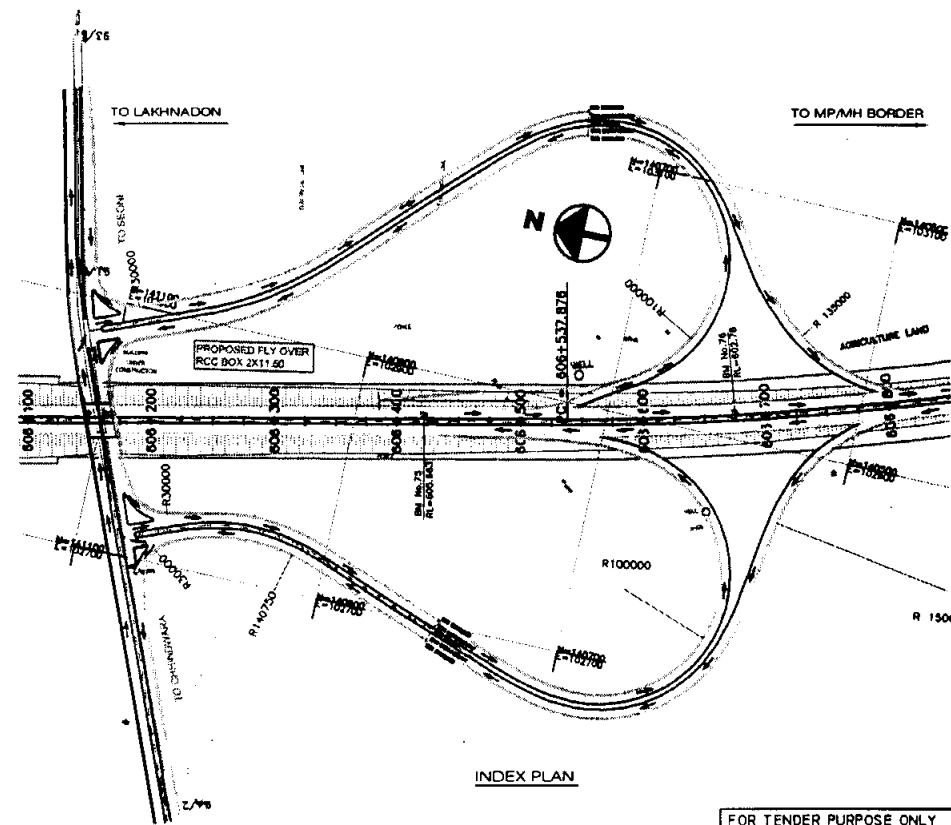
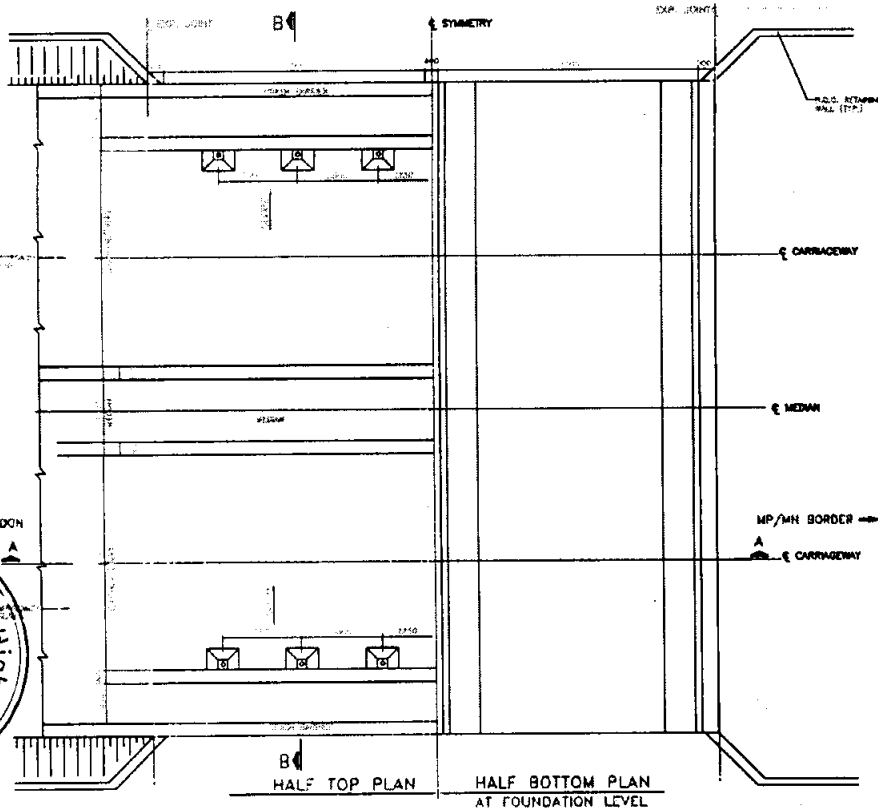




NOTES:

1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METERS.
2. CONCRETE SHOULD BE DONE AS PER IS 456:2000.
3. SUPERELEVATION/CAMBER AND FORMATION LEVEL IS SHOWN AS PER THE APPROVED PLAN & PROFILE DRAWING.
4. ANY LOOSE UNDESIRABLE MATERIAL BELOW BOX STRUCTURE, IF FOUND DURING EXCAVATION, IS TO BE REMOVED BY GRANULAR MATERIAL.
5. FILLER TYPE EXPANSION JOINT IS PROVIDED AS PER DRAWING.
6. FOR DETAILS OF R.C.C. RETAINING WALL REFER SEPARATE DRAWING.
7. GRADE OF CONCRETE:

R.C.C. FOR BOX	M-25
BOX STRUCTURE	M-30
APPROACH SLAB, WING WALL	M-30
CRASH BARRIER	M-40



FOR TENDER PURPOSE ONLY

DRG. NO B 18

NO.	DATE	DESCRIPTION	APPROVED

CONSULTANT :-
 CONSULTING ENGINEERS GROUP LTD
 E-12, 1st Floor, Colony, Malakhya Nagar, Jalandhar-19
 Tel: +91-181-2520090, 2521896, 2520056
 Fax: 2521544, E-mail: enginfo@cegroup.com

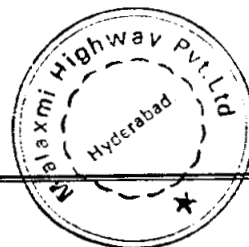
NATIONAL HIGHWAYS AUTHORITY OF INDIA
 (Ministry of Surface Transport)
 PROJECT:- 4/6 LANING OF LAKHNADON TO MP/MH BORDER SECTION
 FROM KM 544/0 TO KM 652/0 OF NH-7

GENERAL ARRANGEMENT DRAWING
 VEHICULAR UNDERPASS
 AT CH 606+159 IN APPROACH OF ROB
 PACKAGE - I (FROM CH 596 TO CH 610)

NO.	DATE	DESCRIPTION	APPROVED

SCHEDULE C

PROJECT FACILITIES



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 547/400 to km 595/925 of NH-7 only.

2. TOLL PLAZA

The typical layout of toll plaza is given in Figure-C-1 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. The Toll Plaza shall have rigid pavement. High mast lighting shall be provided.

3. UNDERPASSES/ CATTLE CROSSINGS FACILITIES

Vehicular underpasses and cattle passes in the form of R.C.C. box cells having inner dimensions 10.0x5.0 (clear height), 6.0x3.5 (clear height) size respectively shall be provided at the locations indicated in Table B-10 of Schedule-B or in close vicinity of these locations in consultation with the Independent Consultant.

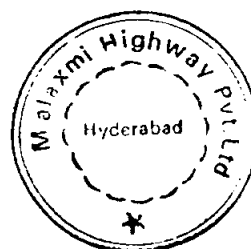
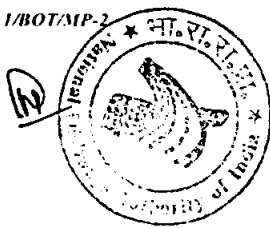
The proposed box cell shall have an opening at its top in full width in the median portion for the Provision of day light. The specifications and standards specified in Schedule-D shall be followed.

4. 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.

5. 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.

6. 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.

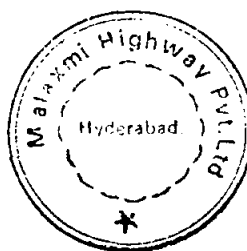
Shrubs of low height shall be planted in the median of highway. Plantation scheme shall be prepared in consultation with Forest Department of the State Government and the Independent Consultant in accordance with Schedule D.

7. 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 bypass of the Project Highway. The environmental and social assessment study has accordingly, been carried out and is presented in a report titled:

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.

8. ROAD FURNITURE AND WAY SIDE AMENITIES

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.

9. FACILITIES TO BE PROVIDED FOR NHA

The Concessionaire shall provide the following facilities for NHA

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.

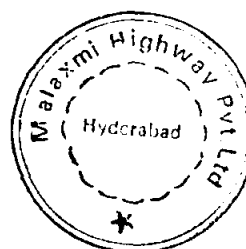
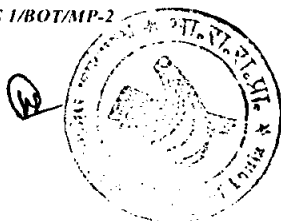
ii. The Concessionaire shall provide at least two latest mobile phones with connection

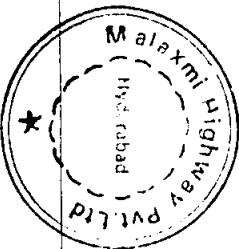
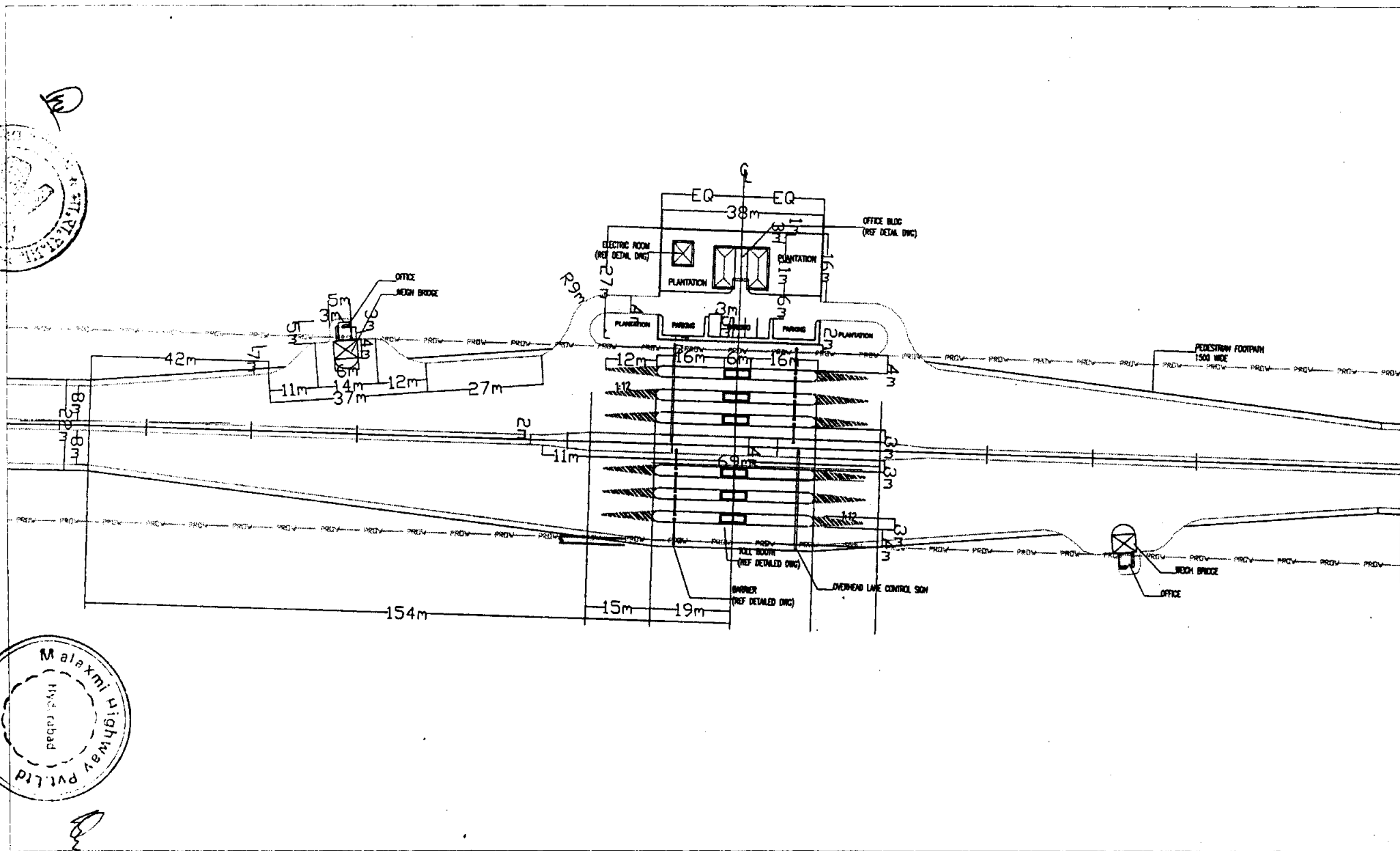
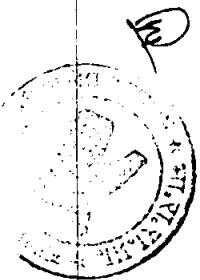
iii. The Concessionaire shall also provide following supporting staff for NHA including their wages and additional benefits for the entire concession period

- One stenographer
- One Office attendant/peon

10. 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 system. The list of equipments shall be finalized in consultation with NHA/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

SPECIFICATIONS 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 1 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.

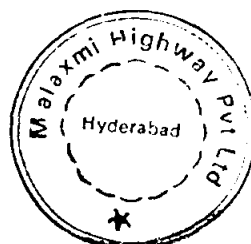
1.4 In no case the FRL of the additional 2/3 lanes shall be less than that of existing Carriageway. **The vertical profile has already been finalized by the Annexure 1 consultant. The concessionaire shall follow the finalized vertical alignment as minimum requirement.** In no case the depth of cut shall 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 (Annuity) NS I/BOT/MP



D-1

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.

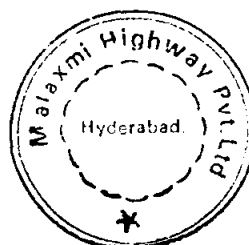
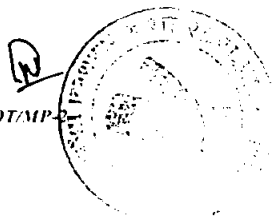
1.13 The quality and/ or the quantities of various items shall primarily be the responsibility of the Concessionaire. The Independent Consultant shall, however, ensure and/ or verify it by devising suitable means. On noticing any deficiency in the quality and/ or quantity, corrective measures as ordered 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.

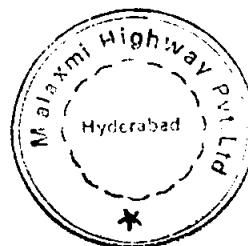
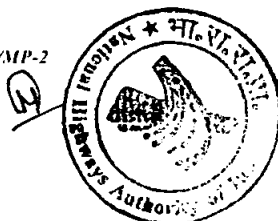
2.5 Pavement Design

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.

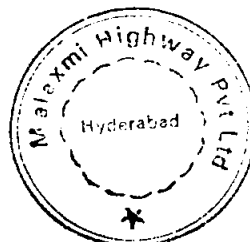
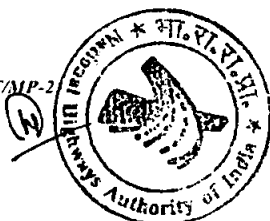
2.7.2 MORT&H specification (Clause 2607.2) shall be followed for the material of strip seal expansion joints.

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.

RFP BOT (Annuity) NS I/BOT/MP-2



D-4

2.7.6 Pre-stressing anchorages shall confirm 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.

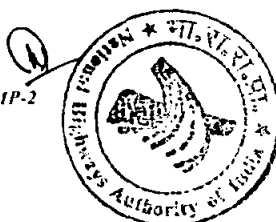
2.9 Intersections

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&H 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 finalized 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.



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.

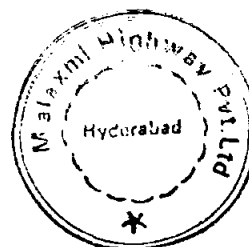
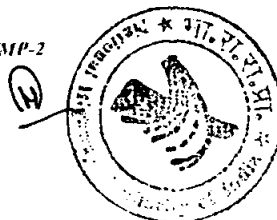
2.12.2 Water storage in the drinking water kiosks shall be as per the National Building Code (NBC), subject to a minimum of 200 litres. At least 2 sq.m. area around the drinking water kiosks shall be paved with adequate cross slopes and drainage to ensure speedy disposal of spilt water.

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.



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.

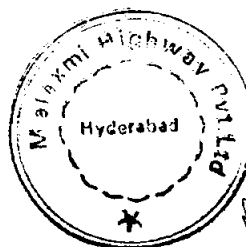
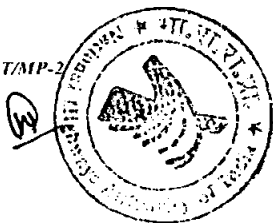
2.14.3 All outdoor equipment for the facility of the users such as Emergency Call Booths (ECB) and Message Signs (MS) shall be installed at locations which shall be clearly visible to the approaching drivers. The ECBs shall have proper sign identifications

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.



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

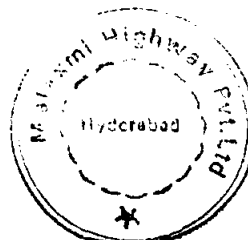
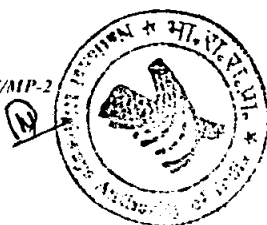
2.15.2.1 Pedestrian guardrail shall be provided at the following locations

- 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.

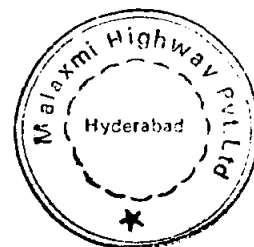
2.16.3 All the cautionary/mandatory signs shall be provided on shoulder and median for each direction of traffic for clear visibility during overtaking operations.

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.



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.

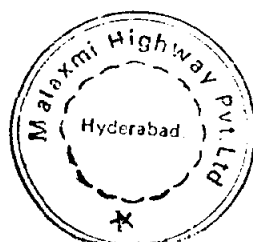
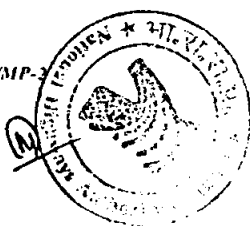
2.20.2 Relevant provisions of NHAI policy guidelines and respective State Government current requirements and guidelines shall be followed for landscaping.

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



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 NHAI.

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.

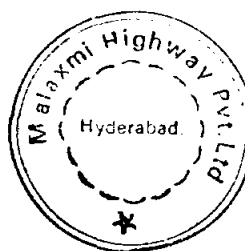
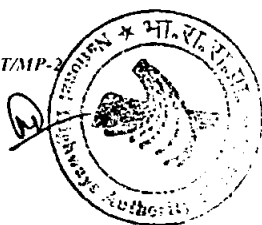
3.4 Fly ash shall be utilised in the road construction if it is available in adequate quantity within a radius of 100 Km from the Project corridor as per Ministry of Environment and Forest regulations. **For usage of fly ash as embankment fill material, relevant cross section detail given in schedule 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 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

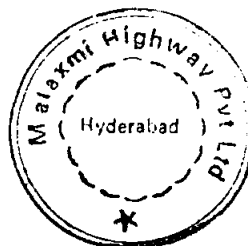
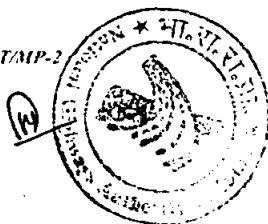
3.5.2.3 All the open spaces around the building(s) shall be landscaped. Boundary walls, fencing, controlled entry points and cattle-catches at all entry and exit points to the buildings shall be provided to protect them from intruders and animals.

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.

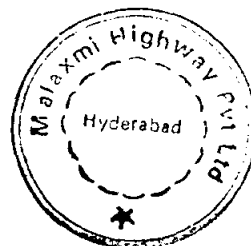
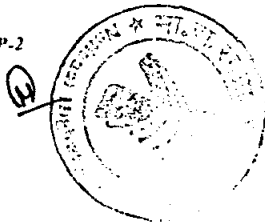
3.5.4.2.2 The Safety Barrier shall conform to MORT&H Specifications Clause 810 and shall be constructed as mentioned in DPR. In case not mentioned in DPR it shall be W-beam metal crash barrier.

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.

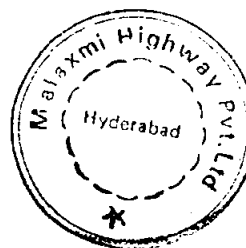
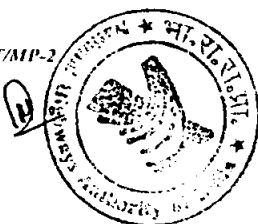
3.5.6 PROJECT VEHICLES AND EQUIPMENT FOR OPERATION

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

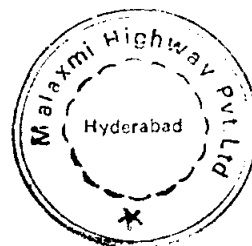
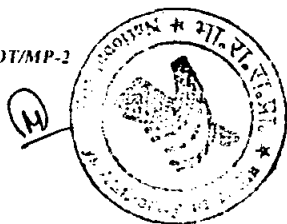
3.5.8.1 The bus stop layout shall provide safe entry and exit of buses from Project Highway and movement of passengers. The shelter structure shall be structurally safe and functional so as to protect the waiting passengers adequately from sun, rain and wind. The seating and plinth of the structure shall 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

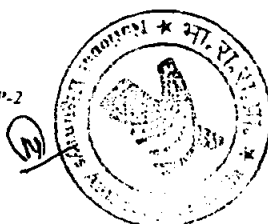
4.1 The Concessionaire shall ensure complete safety of construction staff during the construction work of the Project Highway. It shall also ensure minimum interference to the flow of traffic during widening of the existing 2-lane pavement. The additional lanes shall be constructed first and the traffic diverted to it before improvements to the existing road are taken up. Detailed plan for traffic management shall be worked out in consultation with the Independent Consultants prior to implementation. During construction, the Concessionaire shall take all necessary measures for the safety of traffic by providing and maintaining barricades, traffic signs and illumination during night.

4.2 The Concessionaire shall also ensure complete safety of the Road Users during the construction work of various nature spelt out in Schedule L

4.3 Guidelines for safety measures during construction, operation and maintenance as given in Schedule S, shall be followed.

4.4 A situation arising at site not covered in Schedule L shall be carefully studied for solution, in consultation with Independent Consultant.

RFP BOT (Annuity) NS I/BOT/MP-2



D-16

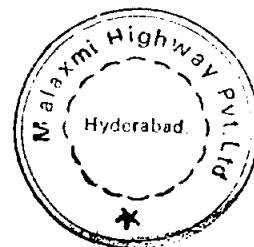
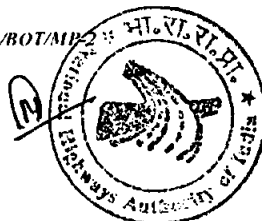
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Annexure-I**LIST OF IRC CODES FOR THE DESIGN OF BRIDGE STRUCTURES AND CULVERTS**

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 1 : 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

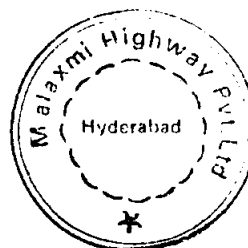
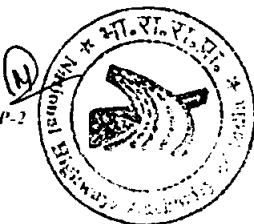
LIST OF IRC CODES/STANDARDS/ACTS FOR ROAD WORKS

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

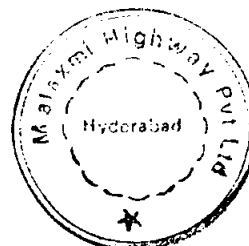
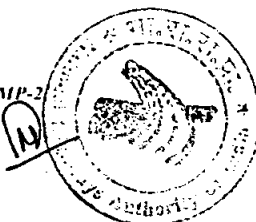
IS:7537-1974 Road traffic signals
 IS:10500-1991 Drinking Water
 IS: 1944(Parts I&II) 1970 Code of Practice for lighting of Public Thoroughfare: Parts 1 and 2
 for
 main and secondary roads (Group A and B) (first revision)
 (Amendments No. 1 and 2) Parts 1 and 2 in one volume)
 (Amendments 2)
 IS:1944 (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

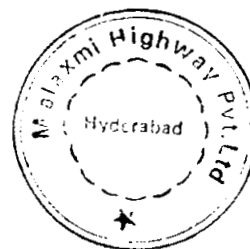
British Standards

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.



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:**

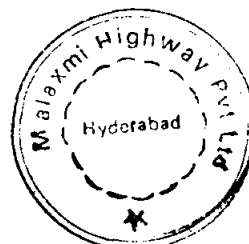
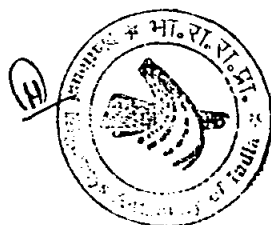
- Permits for extraction of boulder from quarry from Additional District Magistrate (ADM) Mines
- Permit for installation of crusher from village Panchayat and State/Central Pollution Control Board
- License for explosives from the office of Explosive controller
- Explosive license for storing diesel

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.

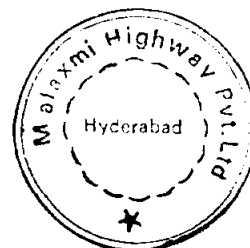
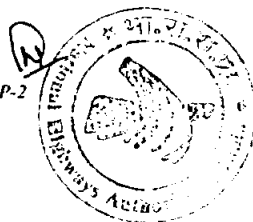
Cutting of trees:

- Permission from Forest Department.

Sewage Lines and Water Mains:

- Permission from Local Municipalities and Development Authorities.

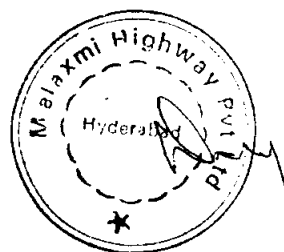
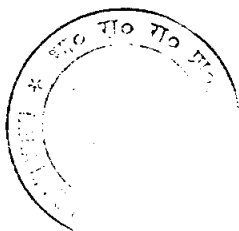
RFP BOT (Annuity) NS I/BOT/MP-2

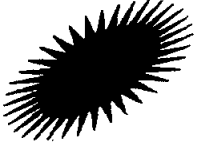


E-2

SCHEDULE F

PERFORMANCE SECURITY





NBFA

NAVA BHARAT FERRO ALLOYS LIMITED

"NAVA BHARAT CHAMBERS", RAJ BHAVAN ROAD, HYDERABAD-500 082. A.P. INDIA.

Ref. No.NBFA/NHAI:0227:2006

July 11, 2006

National Highways Authority of India
G-5 & 6, Sector-10, Dwaraka
NEW DELHI – 110 045

Phone # 011-25074100
Fax # 011-25093513

Kind Attn: Shri P.Ravinder Rao, General Manager (N-II)

*Received
12/07/06
2014*
Sub: *Design, Construction, Development, Finance, Operation and Maintenance of Km. 547.400 to Km. 596.750 on National Highway No.7 (NH-7) in the State of Madhya Pradesh under North-South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis – Package No.NS-1/BOT/MP-2- Compliance List by SPV for Signing the Concession Agreement – Reg.*

Ref:

1. Your Letter No. NHAI-NHDP/PH-II/BOT (Annuity)/GM(N-2)/MP-2/NS-1/2006, dated 22nd June 2006.
2. Our Letter No. NBFA/NHAI:0192:2006, dated 14th June, 2006
3. Our Letter No. NBFA/NHAI:0226:2006, dated 30th June, 2006

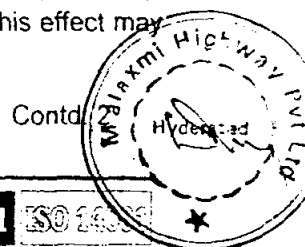
Dear Sir,

We refer to the above-cited letters on the subject under reference.

As advised by you, in order to execute the concession Agreement between Malaxmi Highway Pvt Ltd (the "SPV" Company/Concessionaire) and NHAI, we are pleased to submit herewith following documents for your kind perusal and records:

1. Performance Security as per the Schedule-F of RFP Part-III on behalf of the "SPV" Company;
2. Memorandum/Articles of Association of the "SPV" Company;
3. Certification of Incorporation of the "SPV" Company from RoC;
4. Board Resolution authorizing Mr. D. Suresh for signing the Concession Agreement on behalf of the "SPV" Company;
5. Copy of Register of Members of the "SPV" Company;
6. Certified List of Board of Directors;
7. Certification from M/s Nava Bharat Ferro Alloys Limited (NBFA) authorizing investment in the "SPV" Company;
8. Certification from Company Secretary on investment of NBFA and Kinnera Power Company Limited (An existing NBFA's Associate Company) in the "SPV" Company.
9. Copy of Balance Sheet of NBFA establishing M/s Kinnera Power Company Ltd as its Associate.

Since the "SPV" Company has been registered as a Private Limited Company, as per the provisions of Companies Act 1956, the date of Incorporation of the Company itself will be considered as date of commencement of the business, hence the certificate of commencement of business to this effect may be redundant.



State Bank of Hyderabad
INDUSTRIAL FINANCE BRANCH
HYDERABAD - Code - 703

Stamp

BRANCH

No. BG/A 090508

*National Highways Authority
of India*

*Plot no. G-546, Sector-10, Okhla
New Delhi - 110075*

Dear Sirs,

Guarantee No. 8520

Amount of Guarantee Rs. 5,26,34,000

Guarantee cover from 11-07-06 to 10-07-2007

Last date for lodgement of claim 10-07-2007

This Deed of Guarantee executed by the State Bank of Hyderabad constituted under the State Bank of India (Subsidiary Banks) Act, 1959 having its Head Office at Gunfoundry, Hyderabad, and amongst other places, a Branch at HYDERABAD - Code - 703

(hereinafter referred to as 'the Bank') in favour of *National Highways Authority of India, New Delhi - 110075*

(hereinafter referred to as 'the Beneficiary') for an amount not exceeding Rs. 5,26,34,000 (Rupees *Five lakh crore twenty six thousand three hundred and thirty four*) at the request of *Malaxmi Highway Pvt. Ltd., Hyd.* (hereinafter referred to as 'the Contractor/s').

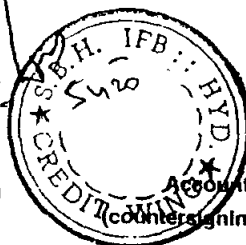
This Guarantee is issued subject to the condition that the liability of the Bank under this Guarantee is limited to a maximum of Rs. *5,26,34,000* (Rupees *Five lakh crore twenty six thousand three hundred and thirty four*) and the Guarantee shall remain in full force upto *10-07-2007* (Date of Expiry) and cannot be invoked otherwise than by a written demand or claim under this Guarantee served on the Bank on or before the *10-07-2007* (Last date of claim)

SUBJECT TO AS AFORESAID

(Main Guarantee matter
may be typed hereafter)



K.V. Subrahmanyan
5420

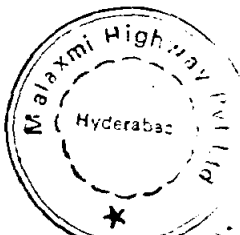


Accountant
(Countersigning Official)

For STATE BANK OF HYDERABAD



(Authorized Official)
N. Silva Prasad Reddy
CC No. 7547





आन्ध्र प्रदेश ANDHRA PRADESH

B 098650

K. ANITHA

Licence No: 56/96 RL. 53
26/C, Vengalrao Nagar,
HYDERABAD-38. (C):2381

Sl. No. 27537 Date 10.10.2006 Rs. 100/-

PURCHASER P. Rama Krishna s/o Ganga Raju R/o Hyd
FOR WHOM Malaxmi Highway (P) Ltd.

From
STATE BANK OF HYDERABAD
Industrial Finance Branch, Panjagutta
Hyderabad - 500 082.

To
National Highways Authority of India,
(Ministry of Shipping, Road Transport and Highways)
Plot No.G-5 & 6, Sector - 10,
New Delhi - 1100 075

Dear Sir,

Guarantee No: 8520

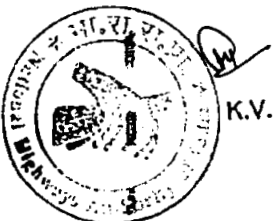
Amount of Guarantee: Rs. 5,26,34,000/-

Guarantee cover from : 11.07.06 to 10.07.07

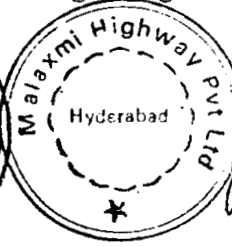
Last date of lodgment of claim : 10.07.07

THIS DEED OF BANK GUARANTEE executed at Hyderabad on this 11th day of July, 2006 by State Bank of Hyderabad, a corporation constituted under State Bank of India (subsidiary bank) Act No.38/1959 and having its registered Office at Gunfoundry,

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K.V. Subrahmanyan
5420



N. Silva Prasad Reddy
2547

36/8520

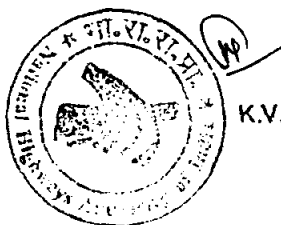
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Hyderabad and amongst other places, a Branch at Industrial Finance Branch, Panjagutta, Hyderabad – 500 082 (hereinafter referred to as “THE BANK”) in favour of National Highways Authority of India, (Ministry of Shipping, Road Transport and Highways), Plot No. G-5 & 6, Sector – 10, New Delhi – 1100 075 (hereinafter referred to as “NHAI”) for an amount not exceeding Rs. 5,26,34,000/- (Indian Rupees Five Crores Twenty Six Lakhs and Thirty four thousands only) (the guaranteed sum) at the request of **MALAXMI HIGHWAY PRIVATE LIMITED**, Hyderabad (hereinafter referred to as “Concessionaire”).

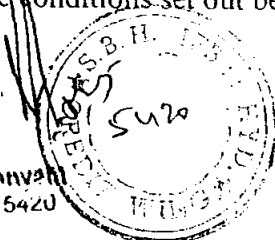
- a. NHAI vide Letter No. NHAI/PH-II/NHDP/BOT/(ANNUTY)/GM(N-II)NS-I/2006/104 dated 29.04.06 has issued letter of acceptance (LOA) to the M/s Nava Bharat Ferro Alloys Limited, Nava Bharat Chambers, H No.6-3-1109/1, Raj Bhavan Road, Somajiguda, hyderabad – 500 082 to Design, Construction, Development, Finance, Operation and Maintenance of Km 547.400 to Km 596.750 on National Highway No.7 (NH-7) called the Project in the State of Madhya Pradesh under North-South Corridor (NHDP Phase – III) on BOT (Annuity) basis (the “Project”).
- b. M/s Nava Bharat Ferro Alloys Limited, has Promoted and incorporated a Special Purpose Vehicle (SPV) in the form of a limited liability company named as **MALAXMI HIGHWAY PRIVATE LIMITED**, (the “Concessionaire”) having its registered office in the state of Andhra Pradesh, to enter into a Concession Agreement for undertaking, inter alia, the Project and to perform and discharge all its obligations thereunder.
- 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. 5,26,34,000/- (Indian Rupees Five Crores Twenty Six Lakhs and Thirty four thousands only) as security for compliance with its obligations under the Concession Agreement during the Construction Period.
- d. The Guarantor (THE BANK) has agreed to give NHAI the abovementioned guarantee on the terms set out herein.

NOW THEREFORE THIS GUARANTEE WITNESSETH AS FOLLOWS:

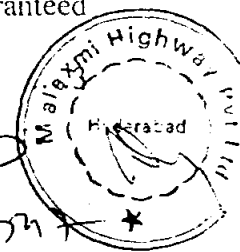
We, State Bank of Hyderabad, Industrial Finance Branch, Panjagutta, Hyderabad – 500 082 (the “Guarantor”) with its registered office at Gunfoundry, Hyderabad, unconditionally guarantee to pay NHAI upon first written demand and without any deduction any sum claimed by NHAI up to a maximum of Rs. 5,26,34,000/- (Indian Rupees Five Crores Twenty Six Lakhs and Thirty four thousands only) (the “Guaranteed Sum”) subject to the conditions set out below.



K.V. Subrahmanyam
5420



N. Siva Prasad Reddy
SS No. 7547

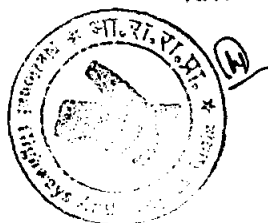
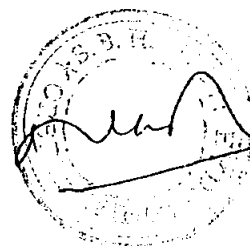
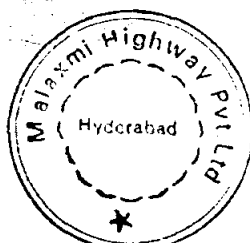


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1. THE BANK unconditionally and irrevocably promises to pay on demand the Guaranteed Sum , without protest or demur whatsoever upon the receipt of a written demand from NHAI, which shall be final and conclusive as against THE BANK requiring THE BANK to make the payment to NHAI.
2. THE BANK waives any requirement that NHAI demand any debt or payment from the Concessionaire before presenting it with a demand under this Guarantee.
3. NHAI shall notify THE BANK 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 BANK.
4. Upon encashment and appropriation of the whole or any portion of the Guaranteed Sum by NHAI in accordance with the Concession Agreement, THE BANK 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.
5. No underlying dispute as between NHAI and the Concessionaire nor any pending application for interim relief or arbitration proceedings or to other legal proceedings shall constitute any ground for prevention, delay or obstruction for making payment to NHAI by THE BANK and the existence of any disputes or differences or claims in arbitration or otherwise shall not constitute any ground for nonpayment on this Guarantee.
6. This guarantee is valid and effective from its date. This guarantee and THE BANK's obligations under it will terminate on the Commercial Operations Date of the Project as advised to THE BANK 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.

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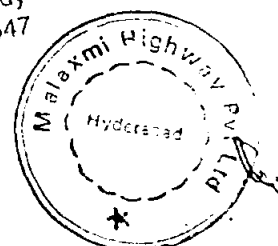
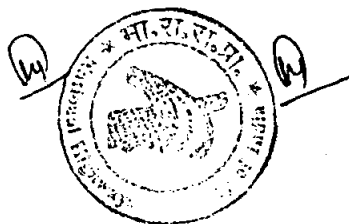
K.V. Subrahmanyan
54711N. Siva Prasad Reddy
SS No. 7547

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7. THE BANK 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.
8. This Guarantee shall be valid and effective up to 10.07.2007 for enabling NHAI to lodge a claim for payment under the Guarantee till the date of expiry of the term of the Guarantee. THE BANK shall be obligated to make payment upon the Guarantee forthwith on demand, if the claim is lodged within the claim validity period (i.e. 10.07.2007) 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 in terms of this Bank Guarantee, THE BANK shall be obligated to pay compound interest at 2% above the prime lending rate of THE BANK, compounding quarterly in the event of THE BANK'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.
9. No change in the constitution of the Concessionaire or of THE BANK 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 agreement, discharge THE BANK. THE BANK shall notwithstanding such change, be bound to make payment upon the Guarantee on demand.
10. THE BANK 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.
11. THE BANK 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 BANK and the assignee assumes in writing the obligations of THE BANK under this Guarantee at the same time or before the assignment.

...5

K.V. Subrahmanyan
5420N. Siva Prasad Reddy
SS No. 7547

136/8520

::5::

12. This Guarantee binds THE BANK, its successors and permitted assigns.

NOTWITHSTANDING any thing contained herein:

- a) Our liability under this guarantee is restricted to Rs. 5,26,34,000/- (Indian Rupees Five Crores Twenty Six Lakhs and Thirty four thousands only).
- b) This guarantee shall be valid up to 10th day of July 2007.
- c) We are liable to pay the guaranteed amount or any part thereof under this guarantee only when you serve upon us a written claim or demand on or before 10.07.2007 and;
- d) Unless a demand or claim under this guarantee is made on the surety in writing on or before 10.07.2007, We shall be discharged from all liabilities under this guarantee thereafter and all rights of the NHAI under this guarantee shall be forfeited.

In WITNESS WHEREOF the authorized signatory of THE BANK has set his hands on the date, month and year written herein above.

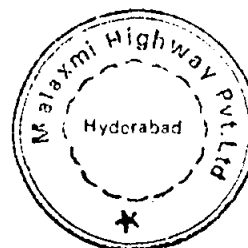
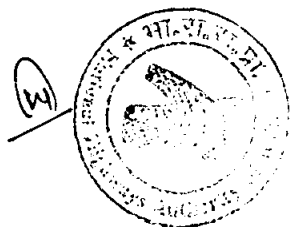
Signed and delivered
On behalf of State Bank of Hyderabad
By the hand of Mr.

K.V. Subrahmaniam



Designation:

N. Siva Prasad Reddy
SS No. 7547





State Bank of Hyderabad

INDUSTRIAL FINANCE BRANCH
HYDERABAD • Code • 703

Stamp

BRANCH

National Highways Authority
of India
Plot No. G-56 I, Sector 10, Okhla
New Delhi - 110075

No. BG/A 090509

Dear Sirs,

Guarantee No. 8521

Amount of Guarantee Rs. 7,89,51,000/-

Guarantee cover from 11-07-06 to 10-10-2009

Last date for lodgement of claim 10-10-2009

This Deed of Guarantee executed by the State Bank of Hyderabad constituted under the State Bank of India (Subsidiary Banks) Act, 1959 having its Head Office at Gunfoundry, Hyderabad, and amongst other places, a Branch at INDUSTRIAL FINANCE BRANCH HYDERABAD • Code • 703

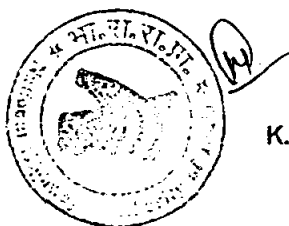
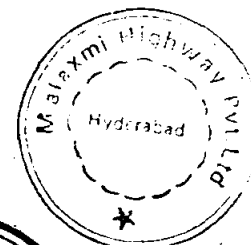
(hereinafter referred to as 'the Bank') in favour of National Highways Authority of India, New Delhi - 110075.

(hereinafter referred to as 'the Beneficiary') for an amount not exceeding Rs. 7,89,51,000/- (Rupees. Seven crore eighty nine lakh fifty one thousand only) at the request of Malaxmi Highway Pvt. Ltd., Hyd. (hereinafter referred to as 'the Contractor/s').

This Guarantee is issued subject to the condition that the liability of the Bank under this Guarantee is limited to a maximum of Rs. 7,89,51,000/- (Rupees. Seven crore eighty nine lakh fifty one thousand only) and the Guarantee shall remain in full force upto 10-10-2009 (Date of Expiry) and cannot be invoked otherwise than by a written demand or claim under this Guarantee served on the Bank on or before the 10-10-2009 (Last date of claim)

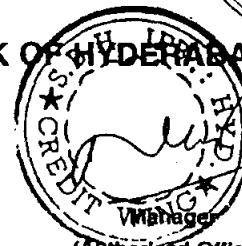
SUBJECT TO AS AFORESAID

(Main Guarantee matter may be typed hereafter)

K.V. Subrahmanyam
5420

(Countersigning Official)

STATE BANK OF HYDERABAD

(Authorised Official)
N. Silva Prasad Reddy
7547



आन्ध्र प्रदेश ANDHRA PRADESH

Sl. No. 24533 Date 10.10.7.2006 Rs. 150/-

PURCHASER P. Rama Krishna s/o Ganga Raju R/o Hyderabad
FOR WHOM Malaxmi Highway (P) Ltd.

B 098646

K. ANITHA

Licence No: 56/96 RL. 530.
26/C, Vengalrao Nagar.
HYDERABAD-38. (Q:238147)

From
STATE BANK OF HYDERABAD
Industrial Finance Branch, Panjagutta
Hyderabad - 500 082.

To
National Highways Authority of India,
(Ministry of Shipping, Road Transport and Highways)
Plot No.G-5 & 6, Sector - 10,
New Delhi - 1100 075

Dear Sir,

Guarantee No: 8521

Amount of Guarantee: Rs. 7,89,51,000/-

Guarantee cover from : 11.07.06 to 10.10.09

Last date of lodgment of claim : 10.10.09

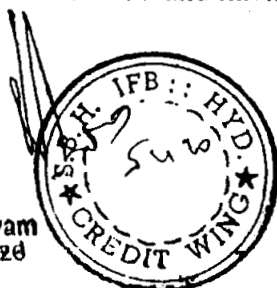


THIS DEED OF BANK GUARANTEE executed at Hyderabad on this 11th day of July, 2006 by State Bank of Hyderabad, a corporation constituted under State Bank of India (subsidiary bank) Act No.38/1959 and having its registered Office at Gunfoundry.

....2



K.V. Subrahmanyam
6428



N. Siva Prasad Reddy
SS No. 7647

136/8521

:2::

Hyderabad and amongst other places, a Branch at Industrial Finance Branch, Panjagutta, Hyderabad – 500 082 (hereinafter referred to as “THE BANK”) in favour of National Highways Authority of India, (Ministry of Shipping, Road Transport and Highways), Plot No. G-5 & 6, Sector – 10, New Delhi – 1100 075 (hereinafter referred to as “NHAI”) for an amount not exceeding Rs. 7,89,51,000/- (Indian Rupees Seven Crores Eighty Nine Lakhs and Fifty one thousands only) (the guaranteed sum) at the request of **MALAXMI HIGHWAY PRIVATE LIMITED**, Hyderabad (hereinafter referred to as “Concessionaire”).

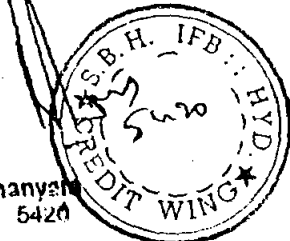
- a. NHAI vide Letter No. NHAI/PH-II/NHDP/BOT/(ANNUTY)/GM(N-II)NS-I/2006/104 dated 29.04.06 has issued letter of acceptance (LOA) to the M/s Nava Bharat Ferro Alloys Limited, Nava Bharat Chambers, H No.6-3-1109/1, Raj Bhavan Road, Somajiguda, hyderabad – 500 082 to Design, Construction, Development, Finance, Operation and Maintenance of Km 547.400 to Km 596.750 on National Highway No.7 (NH-7) called the Project in the State of Madhya Pradesh under North-South Corridor (NHDP Phase – III) on BOT (Annuity) basis (the “Project”).
- b. M/s Nava Bharat Ferro Alloys Limited, has Promoted and incorporated a Special Purpose Vehicle (SPV) in the form of a limited liability company named as **MALAXMI HIGHWAY PRIVATE LIMITED**, (the “Concessionaire”) having its registered office in the state of Andhra Pradesh, to enter into a Concession Agreement for undertaking, inter alia, the Project and to perform and discharge all its obligations thereunder.
- 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. 7,89,51,000/- (Indian Rupees Seven Crores Eighty Nine Lakhs and Fifty one thousands only) as security for compliance with its obligations under the Concession Agreement during the Construction Period.
- d. The Guarantor has agreed to give NHAI the abovementioned guarantee on the terms set out herein.

NOW THEREFORE THIS GUARANTEE WITNESSETH AS FOLLOWS:

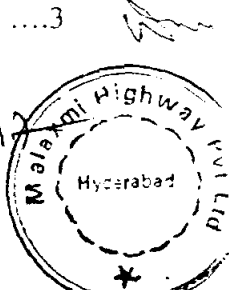
We, State Bank of Hyderabad, Industrial Finance Branch, Panjagutta, Hyderabad – 500 082 (the “Guarantor”) with its registered office at Gunfoundry, Hyderabad unconditionally guarantee to pay NHAI upon first written demand and without any deduction any sum claimed by NHAI up to a maximum of Rs. 7,89,51,000/- (Indian Rupees Seven Crores Eighty Nine Lakhs and Fifty one thousands only) (the “Guaranteed Sum”) subject to the conditions set out below.



K.V. Subrahmanyam
5420



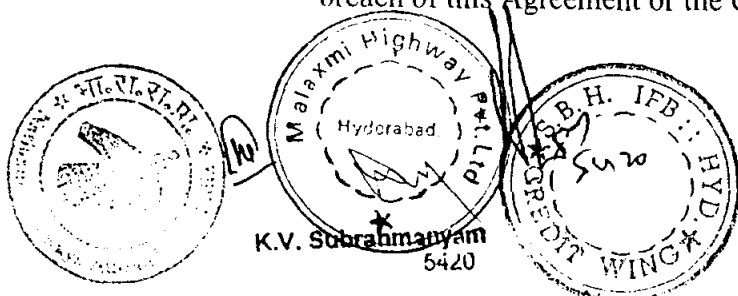
N. Siva Prasad Reddy
SS No. 7547



39/8521

::3::

1. THE BANK 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 BANK requiring THE BANK to make the payment to NHAI.
2. THE BANK waives any requirement that NHAI demand any debt or payment from the Concessionaire before presenting it with a demand under this Guarantee.
3. NHAI shall notify THE BANK 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 BANK.
4. Upon encashment and appropriation of the whole or any portion of the Guaranteed Sum by NHAI in accordance with the Concession Agreement, THE BANK 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.
5. No underlying dispute as between NHAI and the Concessionaire nor any pending application for interim relief or arbitration proceedings or to other legal proceedings shall constitute any ground for prevention, delay or obstruction for making payment to NHAI by THE BANK and the existence of any disputes or differences or claims in arbitration or otherwise shall not constitute any ground for nonpayment on this Guarantee.
6. This guarantee is valid and effective from its date. This guarantee and THE BANK's obligations under it will terminate on the Commercial Operations Date of the Project as advised to THE BANK 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.



N. Siva Prasad Reddy
SS No. 7547

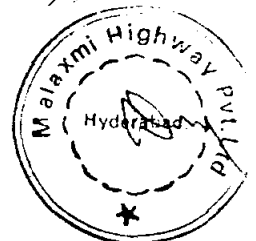
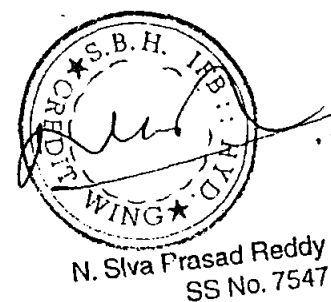
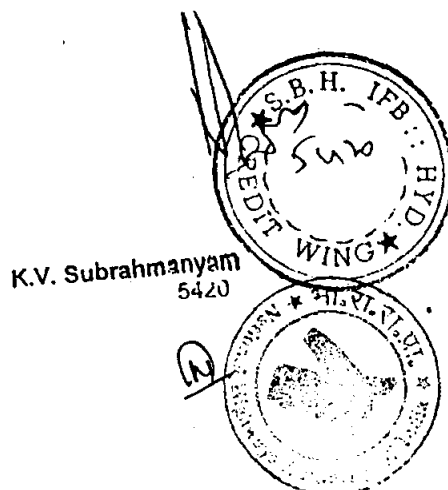
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36/8521

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7. THE BANK 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.
8. This Guarantee shall be valid and effective up to 10.10.2009 for enabling NHAI to lodge a claim for payment under the Guarantee till the date of expiry of the term of the Guarantee. THE BANK shall be obligated to make payment upon the Guarantee forthwith on demand, if the claim is lodged within the claim validity period i.e. 10.10.2009 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 in terms of this Bank Guarantee, THE BANK shall be obligated to pay compound interest at 2% above the prime lending rate of THE BANK, compounding quarterly in the event of THE BANK'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.
9. No change in the constitution of the Concessionaire or of THE BANK 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 agreement, discharge THE BANK. THE BANK shall notwithstanding such change, be bound to make payment upon the Guarantee on demand.
10. THE BANK 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.
11. THE BANK 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 BANK and the assignee assumes in writing the obligations of THE BANK under this Guarantee at the same time or before the assignment.

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269/8521

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12. This Guarantee binds THE BANK, its successors and permitted assigns.

NOTWITHSTANDING any thing contained herein:

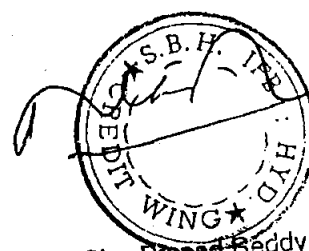
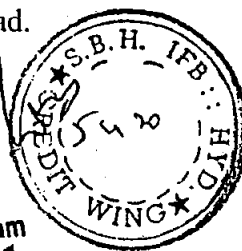
- a) Our liability under this guarantee is restricted to Rs. 7,89,51,000/- (Indian Rupees Seven Crores Eighty Nine Lakhs and Fifty one thousands only).
- b) This guarantee shall be valid up to 10th day of October 2009.
- c) We are liable to pay the guaranteed amount or any part thereof under this guarantee only when you serve upon us a written claim or demand on or before 10.10.2009 and;
- d) Unless a demand or claim under this guarantee is made on the surety in writing on or before 10.10.2009, We shall be discharged from all liabilities under this guarantee thereafter and all rights of the NHAI under this guarantee shall be forfeited.

In WITNESS WHEREOF the authorized signatory of THE BANK has set his hands on the date, month and year written herein above.

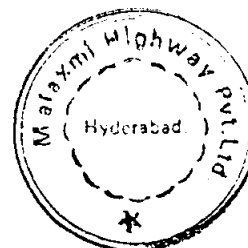
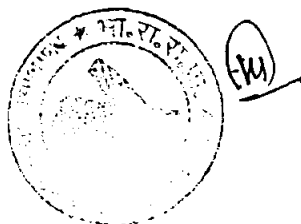
Signed and delivered
On behalf of State Bank of Hyderabad.
By the hand of Mr.

Designation:

K.V. Subrahmanyam
5421



N. Silva Prasad Reddy
SS No. 7547



**NBFA****NAVA BHARAT FERRO ALLOYS LIMITED**

"NAVA BHARAT CHAMBERS", RAJ BHAVAN ROAD, HYDERABAD-500 082. A.P. INDIA.

23/Gm (N-II)
27/9/06

Ref. No. NBFA/NHA: 229/2006

September 2006

National Highways Authority of India
G-5 & 6, Sector-10, Dwaraka
NEW DELHI - 110 045

Phone # 011-25074100
Fax # 011-25093513

Kind Attn: Shri M. P Sharma, General Manager (N-II)

Sub: Design, Construction, Development, Finance, Operation and Maintenance of Km. 547.400 to Km. 596.750 on National Highway No.7 (NH-7) in the State of Madhya Pradesh under North-South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis - Package No. NS-1/BOT/MP-2- Amendments to the Performance Security BGs by SPV for Signing the Concession Agreement - Reg.

Dear Sir,

Ref: Your Letter No. NHA-NHDP/PH-II/BOT (Annuity)/GM(N-2)/MP-2/NS-1/2006/989, dated 21 September 2006.

We refer to the above-cited letter on the subject under reference.

As advised by you, in order to execute the concession Agreement between Malaxmi Highway Pvt Ltd (the "SPV" Company/Concessionaire) and NHA, we are pleased to submit herewith original copies of amendments to the two Bank Guarantees bearing Nos. 8520 and 8521 dated 11th July 2006, which were submitted against Performance Security as per the Schedule-F of RFP Part-III on behalf of the "SPV" Company, for your kind perusal and records.

We hope the above documents are in order; and look forward to your consent in this regard at the earliest for signing of the Concession Agreement.

Thanking you and assuring of our best services at all times.

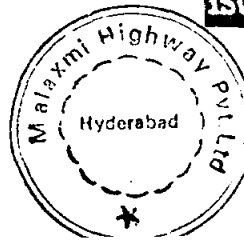
Very truly yours,
for NAVA BHARAT FERRO ALLOYS LIMITED

G.R.K. PRASAD
DIRECTOR (FINANCE & CORPORATE AFFAIRS)
Encl: As mentioned above

Manager (N-II)
27/9/06

Telephone : (040) 23402064, 23403501, 23403540, Fax : (040) 23403013

E-mail : nabfa@netlinx.com nbfa@sify.com Website : www.nbfal.com



ISO 9001 ISO 14001



Stamp

STATE BANK OF HYDERABAD

Industrial Finance Branch

HYDERABAD - Code - 703 BRANCH

To ~~From~~ Mr. M. P. Sharma, (MUNI) EB/A No. 000474
 National Highways Authority of India
 Plot no. G-5 & 6, Sector 10.
 Dhenke
 New Delhi - 110075

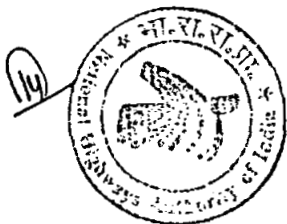
Dear Sirs,

Extension Guarantee No. 8520
for Original Guarantee No. 8520
Extended for a period of 1m upto * 31-07-2007
Last date for lodgement of claims under Extension Guarantee : * 31-07-2007

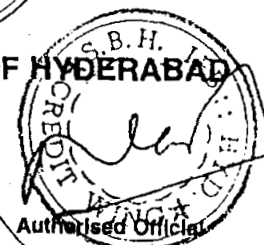
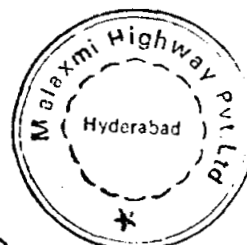
★ (Both should have the same date)

We hereby inform you that the Guarantee No. 8520
 Issued by us on 11-07-2006 for Rs. 5,26,34,000 and renewed till
 (Please strike out, if not applicable)
 shall stand extended upto 31-07-2007 with the
 aforesaid date as the last date for receipt of the claim. and Item 'C' of the Securities
 and Clause 8 of the original guarantee stand amended as per
 All other terms and conditions as appearing in the original Guarantee shall apply to this
 Extension Guarantee and it shall be read with the original Guarantee.

Dated the 23rd day of September 2006



counteracting Official



N. Siva Prasad Reddy
 SS No. 7547



ఆంధ్ర ప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

C 425831

S. NO. 9/094 Dt. 12/9/2006 Rs. 100

Sold To: V. Jay S. S.

6/0. 1/10/10/10... B. R. Krishna Plot No.

To Whom: Meenakshi Infrastructures Pvt. Ltd.

K. RAMA CHANDRAVAT

STAMP VENDOR (LNO: 21/99 R.L.No. 20)
6-3-387, Beside Banjara Durbar Hotel, Panj
HYDERABAD - 500 082 Phone. No: 23

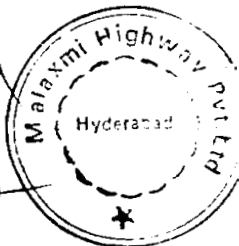
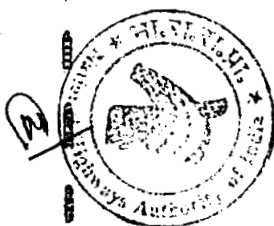
AMENDMENT TO BANK GUARANTEE NO.8520 dated 11th July 2006 AS
PERFORMANCE SECURITY FOR Rs.5,26,34,000.00 ISSUED BY STATE BANK
OF HYDERABAD ON BEHALF OF MALAXMI HIGHWAY PRIVATE
LIMITED.

From : State Bank of India Hyderabad
Industrial Finance Branch
Panjagutta,
HYDERABAD - 500 082.



To: National Highways Authority of India
(Ministry of Shipping, Road Transport and Highways)
Plot No. G-5 & 6, Sector - 10,
NEW DELHI - 110 075.

The following amendment is issued to State Bank of Hyderabad Guarantee No.8520 dated 11th July 2006 issued in favor of "National Highways Authority of India" for Rs.5,26,34,000.00 on behalf of Malaxmi Highway Pvt ltd. Item 'c' in the "Recitals" and clause 8 of the said Bank Guarantee stand amended as follows:



Item "c" of Recitals shall be read as : "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.5,26,34,000/-(Indian Rupees Five Crores Twenty Six Lakhs and Thirty Four Thousand Only.) as security for compliance by the Concessionaire with its obligation under the Concession Agreement up to and including the Construction period".

Clause 8 of the above referred shall be read as: "This Guarantee shall be valid and effective up to 31.07.2007 for enabling NHAI to lodge a claim for payment under the Guarantee till the date of expiry of the term of the Guarantee. THE BANK shall be obliged to make payment upon the Guarantee forthwith on demand, if the claim is lodged within the claim validity period(i.e.31.07.2007) and the obligation to pay is subject to normal limitation for payment of claims upon a guarantee. Time is essence for payment and in the event of failure to make payment in terms of this Bank Guarantee, THE BANK, shall be obligated to pay compound interest at 2% above the prime lending rate of THE BANK, compounding quarterly in the event of THE BANK'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".

Except as provided above all other terms & conditions of the Original Bank Guarantee No. 8520 dated 11.07.2006 for Rs 5,26,34,000/- (Indian Rupees Five crores twenty six lakhs thirty four thousands only) shall remain unaltered and binding. Please treat this as an integral part of the Original Bank Guarantee to which would be attached.

NOTWITHSTANDING any thing contained herein:

- a) Our Liability under this gurantee is Restricted to Rs 5,26,34,000/- (Indian Rupees Five crores twenty six lakhs thirty four thousands only)
- b) This Guarantee shall be valid up to 31st day of July, 2007.
- c) We are liable to pay the guaranteed amount or any part thereof under this guarantee only when you serve upon us a written claim or demand on or before 31.07.2007.

SIGNATURE

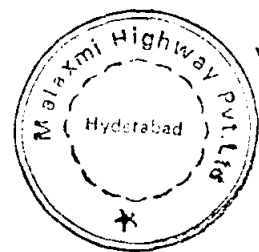
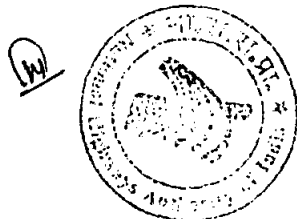
NAME

TITLE

DATE **23 SEP 2006**



N. Siva Prasad Reddy
SS No. 7547





Stamp

STATE BANK OF HYDERABAD

Industrial Finance Branch
HYDERABAD - Code - 703 BRANCH

To

From Mr. M. P. Sharma, GM (NI) EB/A No. 000476

National Highways Authority of India
Plot no. G-5 & 6, Sector-10,
Okhla
New Delhi - 110075

Dear Sirs,

Extension Guarantee No. 8521
for Original Guarantee No. 8521
Extended for a period of 47 upto 31-01-2010
Last date for lodgement of claims under Extension Guarantee : 31-01-2010

★ (Both should have the same date)

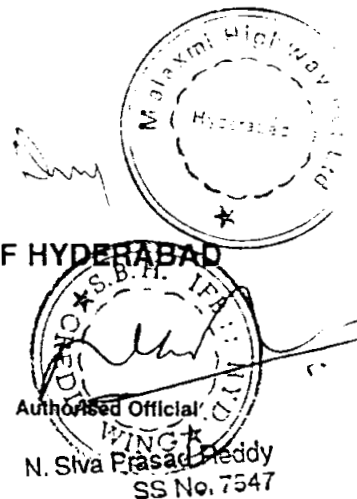
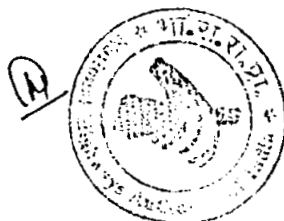
We hereby inform you that the Guarantee No. 8521

Issued by us on 11-07-2006 for Rs. 7,89,51,000 and renewed till
(Please strike out, if not applicable)
shall stand extended upto 31-01-2010 with the

aforsaid date as the last date for receipt of the claim. and item C of the recitals
and Clause 8 of the Original Guarantee stand amended as per
All other terms and conditions as appearing in the original Guarantee shall apply to this

Extension Guarantee and it shall be read with the original Guarantee.

Dated the 26th day of September 2006



Item "c" of Recitals shall be read as : "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.7,89,51,000/-(Indian Rupees Seven Crores Eighty Nine Lakhs and Fifty One Thousand Only) as security for compliance by the Concessionaire with its obligation under the Concession Agreement upto and including the Construction period".

Clause 8 of the above referred shall be read as: "This Guarantee shall be valid and effective up to 31.01.2010 for enabling NHAI to lodge a claim for payment under the Guarantee till the date of expiry of the term of the Guarantee. THE BANK shall be obliged to make payment upon the Guarantee forthwith on demand, if the claim is lodged within the claim validity period(i.e. 31.01.2010) and the obligation to pay is subject to normal limitation for payment of claims upon a guarantee. Time is essence for payment and in the event of failure to make payment in terms of this Bank Guarantee, THE BANK, shall be obligated to pay compound interest at 2% above the prime lending rate of THE BANK, compounding quarterly in the event of THE BANK'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".

Except as provided above all other terms & conditions of the Original Bank Guarantee No. 8521 dated 11.07.2006 for Rs. 7,89,51,000/-(Indian Rupees Seven Crores Eighty Nine Lakhs and Fifty One Thousand Only) shall remain unaltered and binding. Please treat this as an integral part of the Original Bank Guarantee to which it would be attached.

NOTWITHSTANDING any thing contained herein:

- d) Our Liability under this gurantee is Restricted to Rs. 7,89,51,000/-(Indian Rupees Seven Crores Eighty Nine Lakhs and Fifty One Thousand Only)
- e) This Guarantee shall be valid up to 31st day of January, 2010.
- f) We are liable to pay the guaranteed amount or any part thereof under this guarantee only, and only when you serve upon us a written claim or demand on or before 31.01.2010.

SIGNATURE

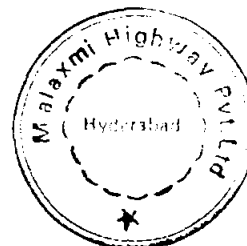
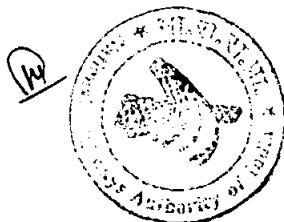
NAME

TITLE

DATE 26 SEP 2006



7/2/07





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

Ref : NHAI/NHDP/PH-11/BOT(Annuity)/GM(N-2)/ MP-2/NS-1/2006 / 395

12-07-06

General Manager (Operations)

State Bank of Hyderabad

Head Office, Gunfoundry,

HYDERABAD 500 001

(A.P.).

Phone : 040-2338 7881

Fax : 040-23387798

Sub : Design, Construction, Development, Finance, Operation and Maintenance of Km. 547.400 to Km. 596.750 on National Highway No. 7 (NH-7) in the State of Madhya Pradesh under North South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis – Package No. NS-1/BOT/MP-2-Bank Guarantee towards Performance security – **Confirmation from the Controlling Branch – reg.**

Sir,

Please refer the following Bank Guarantee issued by your branch State Bank of Hyderabad, Industrial Finance Branch, Panjagutta, Hyderabad, for total amount of Rs. 13,15,85,000/- (Rs 5,26,34,000/- + Rs 789,51,000/-)(Rupees Thirteen Crores Fifteen Lakhs Eighty Five Thousand only) 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.)	Validity
1.	State Bank of Hyderabad, Industrial Finance Branch, Panjagutta, Hyderabad	8520	11/07/2006	5,26,34,000/-	10/07/2007
2	State Bank of Hyderabad, Industrial Finance Branch, Panjagutta, Hyderabad	8521	11/07/2006	7,89,51,000/-	10/10/2009

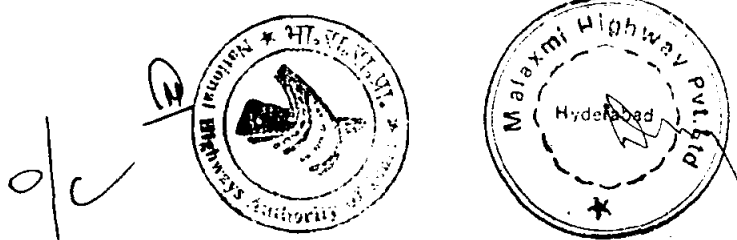
It is requested that confirmation of issuance of the above Bank Guarantees as per the enclosed Porforma specially indicating the reference of this letter on the printed official letter head of the Bank, name, designation and code no. of the officers signing the Guarantees may please be forwarded to this office through registered post / speed post / courier.

Yours faithfully,

R.K. Singh

(R.K. Singh)
Manager (N-II)

Encl : As above





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 : 91-11-25074 00/25074200

फैक्स / Fax : 91-11-25093507 / 25093514

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

Ref : NHAI/NHDP/PH-11/BOT(Annuity)/GM(N-2)/ MP-2/NS-1/2006/396

12-07-06

To,

The Project Director,
National Highways Authority of India,
Project Implementation Unit,
First floor, plot No. 25,
Road No.2, Castle Hills, Masab Tank ,
Hydrabad (AP)-57

Sub : Bank Guarantees towards Performance Security: Confirmation of Bank Guarantees
Sir,

Please refer to the Bank Guarantee as mentioned below

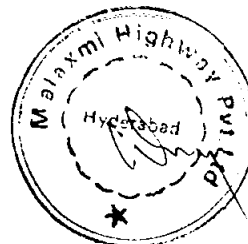
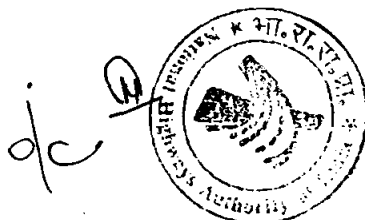
S.NO.	Name of Bank	B.G.No.	B.G.Date	Amount (Rs.)	Validity
1.	State Bank of Hyderabad, Industrial Finance Branch,Panjagutta,Hyderabad	8520	11/07/2006	5,26,34,000/-	10/07/2007
2	State Bank of Hyderabad, Industrial Finance Branch,Panjagutta,Hyderabad	8521	11/07/2006	7,89,51,000/-	10/10/2009

In pursuance to NHAI Policy Circular no. 91/2004 dated 18th Nov.'2004 you are requested to obtain confirmation of the BG from the aforementioned 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.

Yours faithfully,

R.K. Singh
(R.K. Singh)
Manager (N-II)

Encl : As above





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

Ref : NHAI/NHDP/PH-11/BOT(Annuity)/GM(N-2)/ MP-2/NS-1/2006

28-07-06

Deputy General Manager
State Bank of Hyderabad,
Industrial Finance Branch,
Panjagutta
Hyderabad : 500 082
Tel : 040-23318194
Fax : 040-23390909

Sub : Design, Construction, Development, Finance, Operation and Maintenance of Km. 547.400 to Km. 596.750 on National Highway No. 7 (NH-7) in the State of Madhya Pradesh under North South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis – Package No. NS-1/BOT/MP-2-Bank Guarantee towards Performance security – **Confirmation from the Issuing Branch – reg.**

Sir,

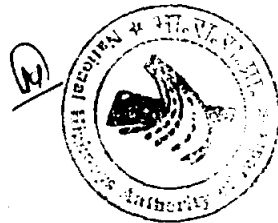
Please refer to your letter dated 26th July, 2006 thereby submitting confirmation of the following Bank guarantees:-

S.NO.	Name of Bank	B.G.No.	B.G.Date	Amount (Rs.)	Validity
1.	State Bank of Hyderabad, Industrial Finance Branch, Panjagutta, Hyderabad	8520	11/07/2006	5,26,34,000/-	10/07/2007
2	State Bank of Hyderabad, Industrial Finance Branch, Panjagutta, Hyderabad	8521	11/07/2006	7,89,51,000/-	10/10/2009

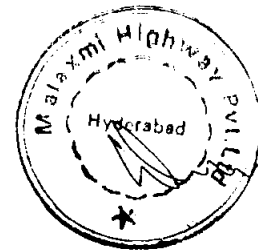
The confirmation sent by you is not as per the required format of NHAI. You are requested to send the confirmation in the required format (format enclosed). You are also requested to confirm the date of expiry of the Bank Guarantees as mentioned in your letter as mentioned above.

Yours faithfully,

Encl : As above



o/c



(R.K. Singh)
Manager (N-II)

STATE BANK OF HYDERABAD**Industrial Finance Branch****'Topaz' Building****Punjagutta, Hyderabad-82.**

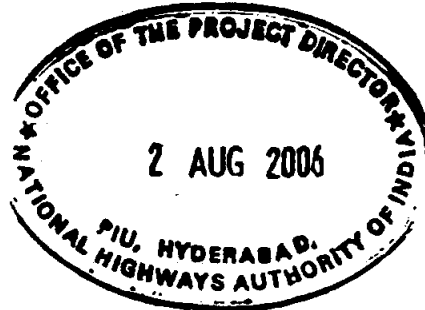
Fax : 23402101 ; 23418068

Phone : 23402297; 23408128

F/BG/659/A

Date: 28th Jul, 2006

Sri R.K Singh,
 Manager (N II)
 National Highways Authority of India
 G 5 & G 6, Sector 10,
 Dwaraka, New Delhi.



Dear Sir,

Re: Confirmation of Bank Guarantees No.8520 & 8521

In partial modification to our letter dated 26.07.2006, we furnish below our confirmation as to the issuance of the following BGs.

BG No.	8520	8521
Date of Issue	11.07.2006	11.07.2006
Guarantee Amount (Rs.)	5,26,34,000.00	7,89,51,000.00
Date of Expiry	10.07.2007	10.10.2009
Name of the Applicant	M/s Malaxmi Highway Pvt.Ltd.	M/s Malaxmi Highway Pvt.Ltd.
Name of the Official Designation/SS No.	(1) N.Siva Prasad Reddy Asst Manager/ SS No. 7547 (2) KV Subrahmanyam Dy.Manager / SS No. 5420	(1) N.Siva Prasad Reddy Asst Manager/ SS No. 7547 (2) KV Subrahmanyam Dy.Manager / SS No. 5420

We confirm having issued the above guarantees in favour of National Highways Authority of India, New Delhi on behalf of our above named constituent and the same was signed by the officers of the bank, who are authorized to sign.

Yours faithfully,

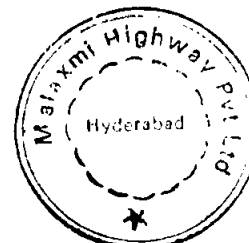
sd/

Deputy General Manager

Copy to:

NHAI, Plot No 25, Castle Hills, Masab Tank, Hyderabad.

Deputy General Manager





स्टेट बैंक ऑफ हैदराबाद
(भारतीय स्टेट बैंक का सहयोगी बैंक)

State Bank of Hyderabad
(Associate of the State Bank of India)

ऋण विभाग एवं वाणिज्य माड्यूल
प्रधान कार्यलय,
गनफाऊन्ड्री, हैदराबाद - 500 001

Credit Department
Commercial Module
Head Office : Gunfoundry,
Hyderabad - 500 001.

F/CNW2/IFB H/BG/924

Date: 28.07.2006

To

Manager (N-II)
National Highways Authority of India
G 5 & 6, Sector - 10
Dwaraka
New Delhi - 110075

*Gm (N-II) May please
see in Dkt
3/8/06*

Dear Sir,

**RE:BG NO.8520 & 8521 DATED 11.07.06 ISSUED BY OUR Industrial Finance
Br. Hyderabad.**

Please refer your letter NO.NHAI/NHDP/PH-11/BOT(Annuity)/GM(N-2)/ MP-2/
NS-1/2006/394 dated 12.07.2006.

We confirm that the under mentioned guarantees were issued by our Industrial
Finance. Branch, Hyderabad, on 11.07.2006 for the amount mentioned against
them are valid till the dates given below.

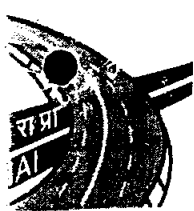
S.No	Bank Guarantee No.	Date	Amount	Valid till	Last Date For Lodgement Of Claim
1	8520	11.07.2006	52634000.00	10.07.2007	10.07.2007
2	8521	11.07.2006	78951000.00	10.10.2009	10.10.2009

The above guarantee was issued in favour of Chairman, National Highways
Authority of India, New Delhi at the request of M/S Malaxmi Highway Pvt Ltd,
Hyd.

Yours faithfully,

[Signature]
for GENERAL MANAGER(C&IB)





National Highways Authority of India
(Ministry of Shipping & Road Transport & Highways)
Project Implementation Unit
First Floor, Plot No.25, Road No.2, Castle Hills,
Masab Tank, Hyderabad – 500 057

169

NHAI/PIU-HYD/12017/2006/717

03rd August, 2006

Sh.R.K.Singh

Manager (N-II)

National Highways Authority of India

New Delhi – 110 075.

Sir,

Sub:- NHAI, PIU-Hyderabad – Forwarding of Confirmation of Bank
Guarantees obtained – Reg.

Ref:- 1) NHAI/NHDP/PH-II/BOT(A)/GM(N-2)/MP-2/NS-1/2006/396
Dt: 12.07.06.

2) NHAI/PIU-HYD/12017/2006/699 Dt:26.06.2006

In continuation to this office letter vide reference 2nd cited, the SBH, IF
Branch, Punjagutta, Hyderabad has issued revised confirmation letter duly
indicating the name of the applicant.

Sl No	Name of the Bank	Name of the Party	Amount (RS.)	BG No. & Date	Details of the Confirmation Letter Ref.
1	State Bank of Hyderabad, IF Branch Punjagutta, Hyderabad	M/s.Malaxmi Highway Pvt. Ltd.	5,26,34,000	8520 dt: 11.07.06	F/BG/659/A Dt.28.07.2006
2		M/s.Malaxmi Highway Pvt. Ltd.	7,89,51,000	8521 dt: 11.07.06	

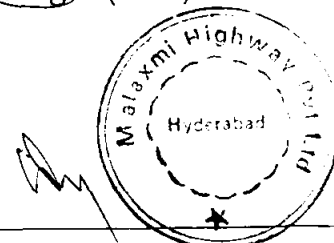
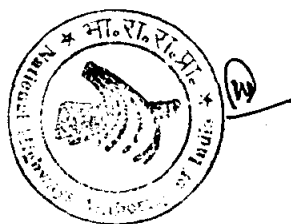
The above confirmation letter has been obtained from the above bank
and the same is enclosed herewith in original.

Please acknowledge the receipt of the same.

Yours faithfully

Encl: As Stated.

(GSVS Prabhakara Rao)
Manager (F&A)





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

Ref : NHAI/NHDP/PH-II/BOT(Annuity)/GM(N-2)/ MP-2/NS-1/2006/1004

26-09-2006

Shri H.K. Nanda
Chief Manager
State Bank of Hyderabad
Industrial Finance Branch,
Panjagutta
Hyderabad : 500 082
Tel : 040-23318194
Fax : 040-23390909 / 23418068 / 23402101

Sub : Design, Construction, Development, Finance, Operation and Maintenance of Km. 547.400 to Km. 596.750 on National Highway No. 7 (NH-7) in the State of Madhya Pradesh under North South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis – Package No. NS-1/BOT/MP-2-Bank Guarantee towards Performance security – **Confirmation of amendment to Bank Guarantees from the Issuing Branch – reg.**

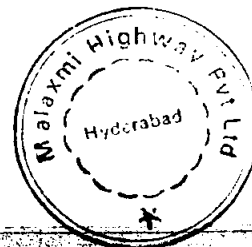
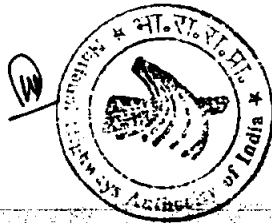
Sir,

Please refer to your amendments to the following bank guarantees as per the details as mentioned below, issued by your bank for total amount of Rs.13,15,85,000/- (Rupees Thirteen Crores, Fifteen Lakhs and Eighty Five Thousand only) 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. and Date	Amendment date	Amount (Rs.)	Validity
1.	State Bank of Hyderabad, Industrial Finance Branch,Panjagutta,Hyderabad	8520 and 11/07/2006	23-09-2006	5,26,34,000/-	31/07/2007
2	State Bank of Hyderabad, Industrial Finance Branch,Panjagutta,Hyderabad	8521 and 11/07/2006	26-09-2006	7,89,51,000/-	31/01/2010

It is requested that confirmation of issuance of the above amendments to the Bank Guarantees as mentioned above, as per enclosed performa specifically indicating the reference of this letter on the printed official letter head of the Bank, name, designation and code number 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)



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

171

Ref : NHAI/NHDP/PH-II/BOT(Annuity)/GM(N-2)/ MP-2/NS-1/2006 / 1003

26-09-2006

Shri Krishnamurthy
A.G.M
State Bank of Hyderabad
Head Office, Gunfoundry,
HYDERABAD 500 001 , (A.P.).
Phone : 040-2338 7881
Fax : 040-23387798 /23387766

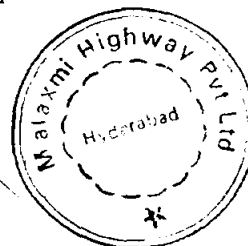
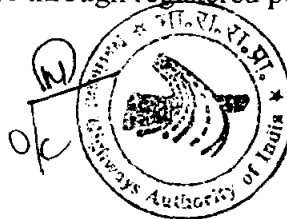
Sub : Design, Construction, Development, Finance, Operation and Maintenance of Km. 547.400 to Km. 596.750 on National Highway No. 7 (NH-7) in the State of Madhya Pradesh under North South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis – Package No. NS-1/BOT/MP-2-Bank Guarantee towards Performance security – **Confirmation of amendment of bank guarantee from Controlling Branch – reg.**

Sir,

Please refer to your amendments to the following bank guarantees as per the details as mentioned below, issued by the following branch of your bank for total amount of Rs.13,15,85,000/- (Rupees Thirteen Crores, Fifteen Lakhs and Eighty Five Thousand only) 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. and Date	Amendment date	Amount (Rs.)	Validity
1.	State Bank of Hyderabad, Industrial Finance Branch,Panjagutta,Hyderabad	8520 and 11/07/2006	23-09-2006	5,26,34,000/-	31/07/2007
2	State Bank of Hyderabad, Industrial Finance Branch,Panjagutta,Hyderabad	8521 and 11/07/2006	26-09-2006	7,89,51,000/-	31/01/2010

It is requested that confirmation of issuance of the above amendments to the Bank Guarantees as mentioned above, as per enclosed performa specifically indicating the reference of this letter on the printed official letter head of the Bank, name, designation and code number 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



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

Ref : NHAI/NHDP/PH-II/BOT(Annuity)/GM(N-2)/ MP-2/NS-1/2006(105

26-09-06

To

The Project Director,
National Highways Authority of India,
Project Implementation Unit,
First floor, plot No. 25,
Road No.2, Castle Hills, Masab Tank ,
Hydrabad (AP)-57

Sub : Design, Construction, Development, Finance, Operation and Maintenance of Km. 547.400 to Km. 596.750 on National Highway No. 7 (NH-7) in the State of Madhya Pradesh under North South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis – Package No. NS-1/BOT/MP-2- Bank Guarantee towards Performance security – **Confirmation of amendment of bank guarantee- reg**

Sir,

Please refer to the Bank Guarantee as mentioned below

S.NO.	Name of Bank	B.G.No. and Date	Amendment date	Amount (Rs.)	Validity
1.	State Bank of Hyderabad, Industrial Finance Branch,Panjagutta,Hyderabad	8520 and 11/07/2006	23-09-2006	5,26,34,000/-	31/07/2007
2	State Bank of Hyderabad, Industrial Finance Branch,Panjagutta,Hyderabad	8521 and 11/07/2006	26-09-2006	7,89,51,000/-	31/01/2010

In pursuance to NHAI Policy Circular no. 91/2004 dated 18th Nov.'2004 you are requested to obtain confirmation of the BG from the aforementioned 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.

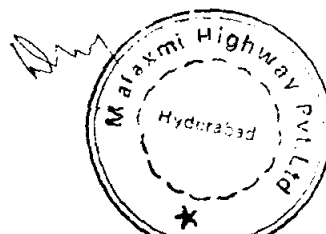
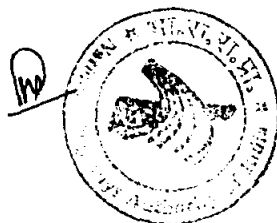
Yours faithfully,

R.K. Singh

(R.K. Singh)
Manager (N-II)

Encl : As above

o/c





स्टेट बैंक ऑफ हैदराबाद

(भारतीय स्टेट का सहयोगी बैंक)

STATE BANK OF HYDERABAD

(Associate of the State Bank of India)

ऋण विभाग

प्रधान कार्यालय

गन्फाउन्ड्री, हैदराबाद - 500 001.

173

CREDIT DEPARTMENT

Head Office,

Gunfoundry, Hyderabad - 500 001.

F/CNW2/IFB H/BG//522.

Date: 27.09.2006

To

Manager (N-II)

National Highways Authority of India

G 5 & 6, Sector - 10

Dwaraka

New Delhi - 110075

Dear Sir,

RE:BG NO.8520 & 8521 DATED 11.07.06 ISSUED BY OUR Industrial Finance Br. Hyderabad.

Please refer your letter NO.NHA/NHDP/PH-11/BOT(Annuity)/GM(N-2)/ MP-2/ NS-1/2006/1003 dated 26.09.2006.

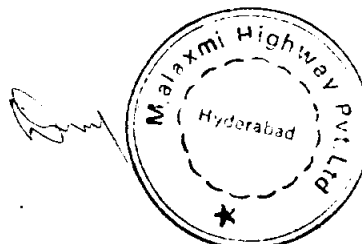
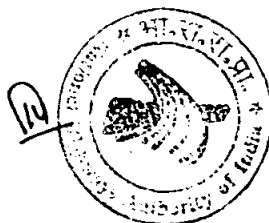
We confirm that the under mentioned guarantees were **EXTENDED** by our Industrial Finance. Branch, Hyderabad, on 23.09.2006 & 26-09-2006 for the amount mentioned against them are valid till the dates given below.

S.No	Bank Guarantee No.	Date	Amount	Valid till	Last Date For Lodgement Of Claim
1	8520	10.07.2007	52634000.00	31.07.2007	31.07.2007
2	8521	10.10.2009	78951000.00	31.01.2010	31.01.2010

The above guarantee was issued in favour of **Chairman, National Highways Authority of India, New Delhi** at the request of **M/S Malaxmi Highway Pvt Ltd, Hyd.**

Yours faithfully,


for GENERAL MANAGER(C&IB)





స్టేట్ బ్యాంక్ ఆఫ్ హైదరాబాద్
स्टेट बैंक आफ हैदराबाद
State Bank of Hyderabad

వార్షిక వడ్డీ
"టోపాజ్" భవనము,
అమృత హిల్స్, పంజాగుట్ట,
హైదరాబాద్ - 500 082.

ఆధిగాగిక వర్తక శాఖ
టోపాజ్ బిల్డింగ్,
అమృతా హిల్స్, పంజాగుట్ట,
హైదరాబాద్ - 500 082.

Industrial Finance Branch,
"Topaz" Building,
Amrutha Hills,
Punjagutta,
Hyderabad - 500 082

Telephone : (040) 23415550 / 23417911 / 23404998 / 66100201 Fax : (040) 23402101 / 23418068, e-mail : sbhifb_hyd@yahoo.com

F/BG/

Date: 27 Sep, 2006 174

The Manager (N-II)
National Highways Authority of India
G-5 & 6, Sector - 10, Dwarka
NEW DELHI - 110 075

Faxed on date.

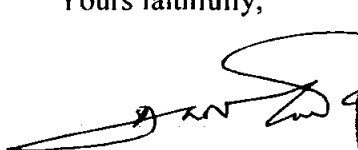

Dear Sir,

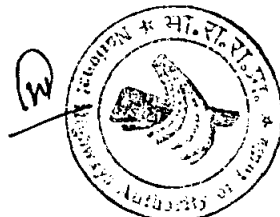
Re: Confirmation of Extension / Amendment of Bank Guarantees.

BG No.	Date of Issue	Date of Extension / Amendment	Guarantee Amount (Rs.)	New Date of Expiry	Last Date of Claim
8520	11.07.2006	23.09.2006	5,26,34,000.00	31.07.2007	31.07.2007
8521	11.07.2006	26.09.2006	7,89,51,000.00	31.01.2010	31.01.2010

With reference to your letter No.NHAI/NHDP/PH-II/BOT (Annuity)/GM (N-2)/MP-2/NS-1/2006/1004, dt.26.09.2006, we confirm having extended / amended the above guarantees in your favour on behalf of our constituent M/s.Malaxmi Highway Pvt. Ltd., Hyderabad.

Yours faithfully,


DEPUTY GENERAL MANAGER






भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय)
National Highways Authority of India
(Ministry of Shipping & Road Transport & Highways)
Project Implementation Unit
First Floor, Plot No.25, Road No.2, Castle Hills,
Masab Tank, Hyderabad – 500 057

Telephone: 040-23532698
Tele-Fax : 040-23534141
email : hyd@nhai.org

175

NHAI/PIU-HYD/12017/2006/990.

27th September, 2006

Sh.R.K.Singh,
Manager (N-II)
National Highways Authority of India
G-5 & 6, Sector-10, Dwarka,
New Delhi – 110 075.

Sir,

Sub:- NHAI, PIU-Hyderabad – Forwarding of Confirmation letter of amendment to Bank Guarantees – Reg.

Ref:- NHAI/NHDP/PII-II/BOT(A)/GM(N-2)/MP-2/NS-1/2006/1005,
dt 26.09.2006.

With reference to the above letter, the State Bank of Hyderabad has confirmed the issue of the Amendment to Bank Guarantees as detailed below.

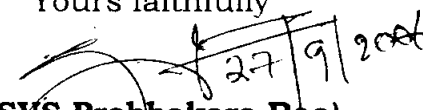
Sl. No	Name of the Bank	Name of the Party	Amount (Rs.)	BG No. & Date	Details of the Confirmation Letter Ref.
1	State Bank of Hyderabad, IF Branch, Punjagutta, Hyderabad	M/s.Malaxmi Highway (P) Ltd	5,26,34,000	8520 & 11.07.2006	Lr.No.: F/BG Dt:27.09.06
2			7,89,51,000	8521 & 11.07.2006	

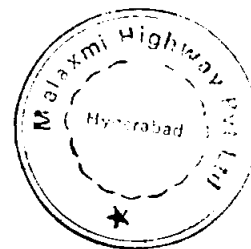
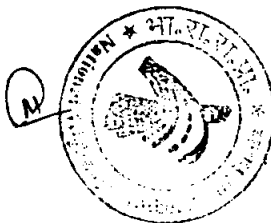
The above confirmation letter issued by the said bank is enclosed herewith in original.

Please acknowledge the receipt of the same.

Encl: As Stated

Yours faithfully


(GSVS Prabhakara Rao)
Manager (F&A)



Corporate Office : G 5&6, Sector 10, Dwaraka, New Delhi – 110 075.
Phone: 91-011-25074100 & 25074200 Fax: 91-011-25093507, 25093514

SCHEDULE G

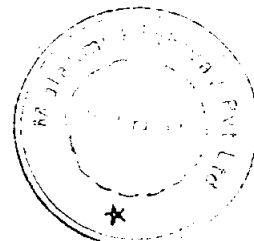
ANNUITY PAYMENT

SCHEDULE

SCHEDULE - G**ANNUTY PAYMENT SHEDULE**

Date of Signing of Agreement	29th September, 2006
Commencement Date	28th March 2007
Construction Period	30 Months
Scheduled Project Completion Date	28th September, 2009

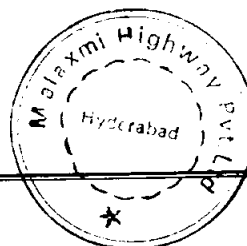
SL. NO	Annuty Payment Date	Annuty Payment (Rs.Crores)
1	27-March-2010	22.42
2	26-September-2010	22.42
3	27-March-2011	22.42
4	26-September-2011	22.42
5	27-March-2012	22.42
6	26-September-2012	22.42
7	27-March-2013	22.42
8	26-September-2013	22.42
9	27-March-2014	22.42
10	26-September-2014	22.42
11	27-March-2015	22.42
12	26-September-2015	22.42
13	27-March-2016	22.42
14	26-September-2016	22.42
15	27-March-2017	22.42
16	26-September-2017	22.42
17	27-March-2018	22.42
18	26-September-2018	22.42
19	27-March-2019	22.42
20	26-September-2019	22.42
21	27-March-2020	22.42
22	26-September-2020	22.42
23	27-March-2021	22.42
24	26-September-2021	22.42
25	27-March-2022	22.42
26	26-September-2022	22.42
27	27-March-2023	22.42
28	26-September-2023	22.42
29	27-March-2024	22.42
30	26-September-2024	22.42
31	27-March-2025	22.42
32	26-September-2025	22.42
33	27-March-2026	22.42
34	26-September-2026	22.42
35	27-March-2027	22.42



SCHEDULE H

PROJECT COMPLETION

SCHEDULE



SCHEDULE H**I. PROJECT COMPLETION SCHEDULE**

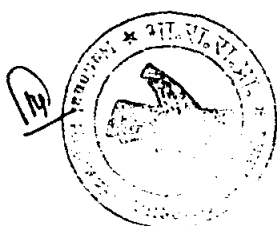
S. No.	Activities	Completion Period (from the Commencement Date)
1.	Completion of Project Road from Km 547.400 to Km 596.750 on NH-7 in the State of Madhya Pradesh	30 months

II. SITE HANDING OVER SCHEDULE

The site shall be handed over as below from Commencement Date:

Stretch	Length	Remarks
(Refer Design Chainage) Existing ROW	49.350 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.

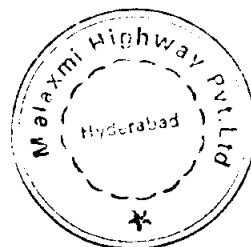


III. PROJECT MILESTONES

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.																												

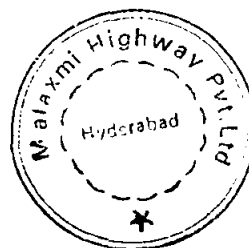
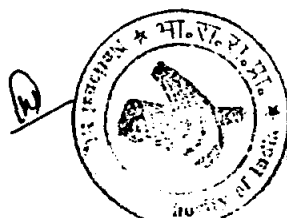
SCHEDULE I

DRAWINGS



SCHEDULE-I
DRAWINGS

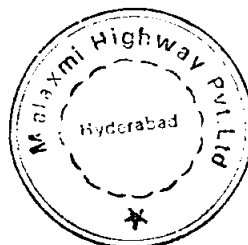
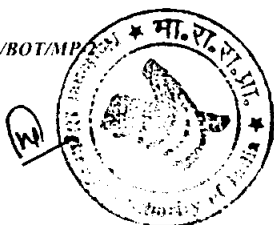
1. The Project Highway drawings, as defined in Clause 1.1, Definitions, Article I, Definition And Interpretation, Chapter I - Preliminary, of the Concession Agreement shall consist:
 - A. Working drawings of all the components/elements of the Project Highway as Determined by Independent Consultant/NHAI, and
 - B. As-Built drawings for the Project Highway components/elements as determined by Independent Consultant/NHAI.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

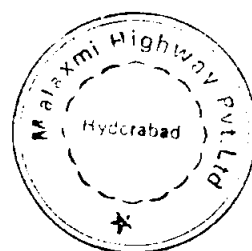
**LIST OF DRAWINGS TO BE SUBMITTED BY CONCESSIONAIRE SHOULD
INCLUDE BUT NOT BE LIMITED TO:**

- 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

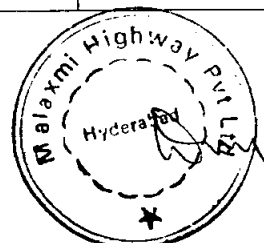
TESTS TO BE CONDUCTED



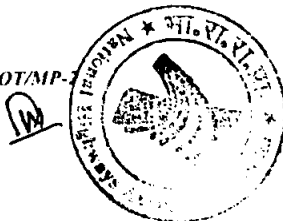
SCHEDULE-J
TESTS TO BE CONDUCTED

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:

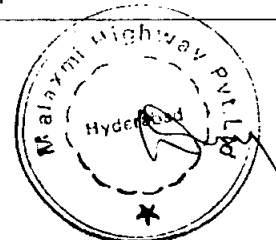
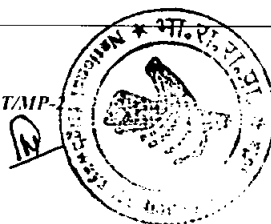
Sl.No.	Item	Test	Testing Procedure
1.0	Earth Work for Embankment, Subgrade construction and cut formation		
1.1	Embankment and subgrade borrow materials	Quality Audit of the following tests performed during construction for soil type, density, moisture content and CBR as required by Ministry of Surface 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



			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 NHAI 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 NHAI 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 NHAI 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

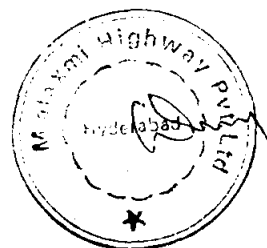


form part of the sample shall be selected by the Independent Consultant through an open draw of lots and the spots located at every one kilometer from such first spot shall form part of the sample. For the bridge portion, one spot shall be selected at random by the Independent Consultant in each span 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

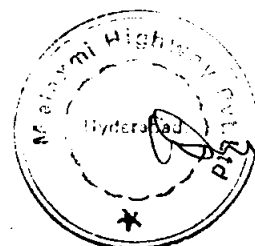
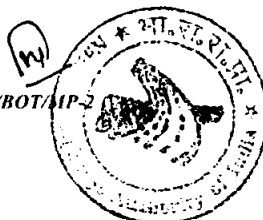
TEST PROCEDURE FOR MEASURING ROUGHNESS INDEX OF THE RIDING SURFACE OF A FLEXIBLE PAVEMENT

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**

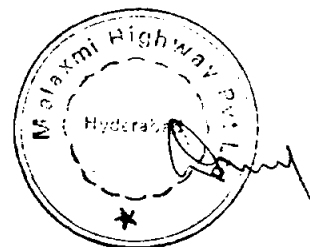
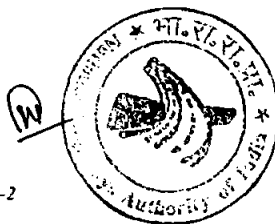
The load test shall be carried out to check and establish the serviceability and working strength of the superstructure.

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.

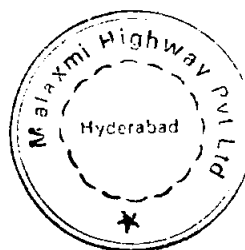
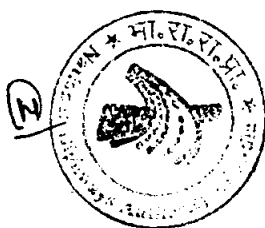


3.0 Acceptance Criteria

- 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.



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Annexure-C**Testing Procedure for Illumination intensity by Luxmeter**

Instrument: Luxmeter (make of renowned company)

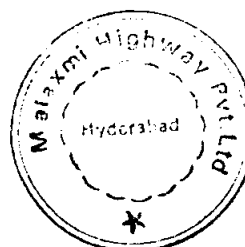
Basis: Comparison with a calibrated Luxmeter through a standard lamp by renowned Photometric Lab.

Test Procedure:

Following steps shall be taken for the test

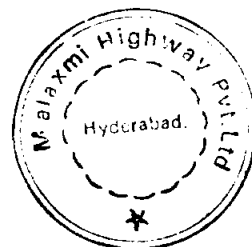
- Calibration of the luxmeter.
- Put off the lights to be tested.
- Take calibrated luxmeter reading.
- Put on the lights in the area to be tested
- Observe the luxmeter reading
- Difference (positive or negative) in addition with standard light luminance level will give the actual luminance of existing 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.

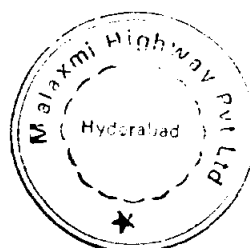
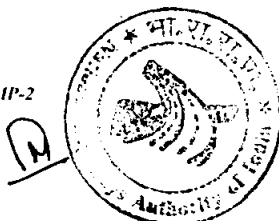
Dated _____

(Date of Issue)

Team Leader

Authorised Representative of the
Independent Consultant

RFP BOT (Annuity) NS I/BOT/MP-2



K-1

SCHEDULE – K₁

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.

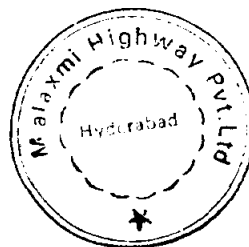
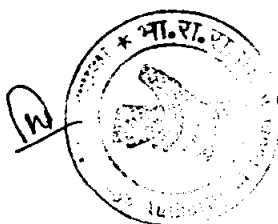
Dated _____

(Date of issue)

Team Leader

Authorised Representative of the
Independent Consultant

RFP BOT (Annuity) NS I/BOT/MP-2



K-2

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.

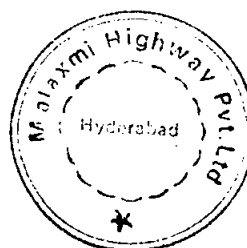
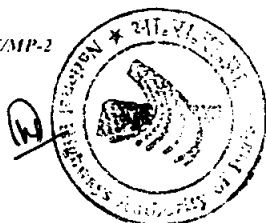
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2. Operation and Maintenance (O&M) Requirements

- 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;

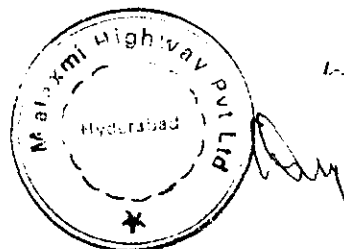
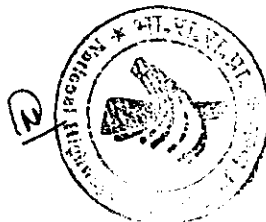
2.1.11. The Scope for operation and maintenance includes but not limited to following:

- 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,

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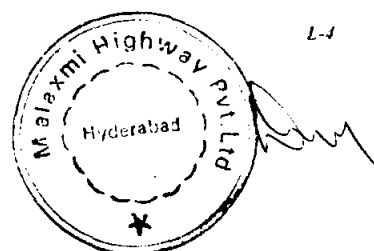
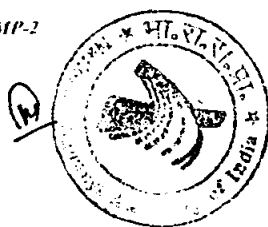
L-3

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:

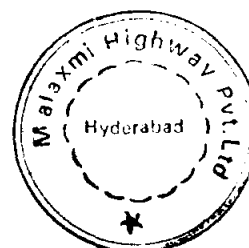
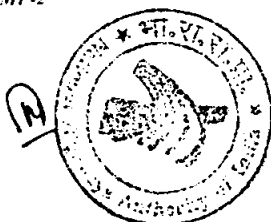
2.2.3.1. Work programme schedule shall be prepared such that diversion roads for the main traffic are minimized. The existing two lane carriageway is utilized to the maximum extent possible.

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.

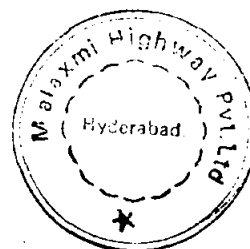
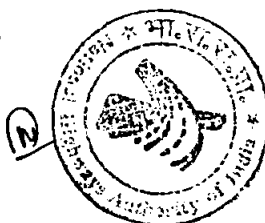
2.2.3.3. The activity of renewal of pavement surface and/or strengthening of the pavement structure shall not be taken up in a continuous length of more than 2 kilometres at a time to avoid long detour of the traffic.

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.

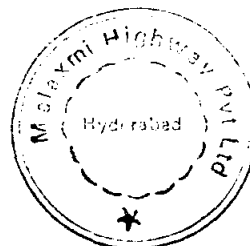
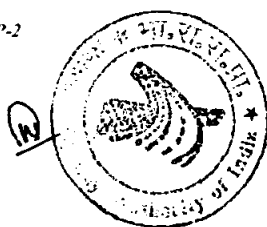
2.4.2.5. The lane closure needed on account of emergency shall be distinguished from the lane closure described in item 2.4.2.3 above. The lane closure on account of the Emergency shall be dealt with under sub clause 18.9, Emergency De-Commissioning, Article XVIII Operation and Maintenance, Chapter IV, 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.



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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.

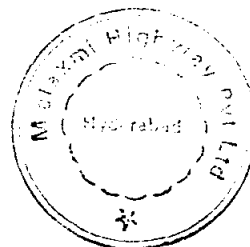
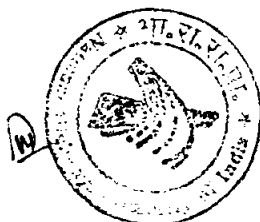
2.6. Operation and Maintenance Stage

- 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.

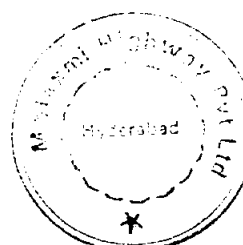
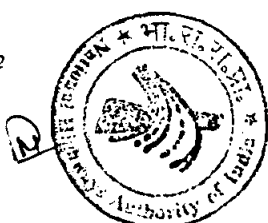
b) During the period when construction works are in progress.

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

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L-9

- 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 :

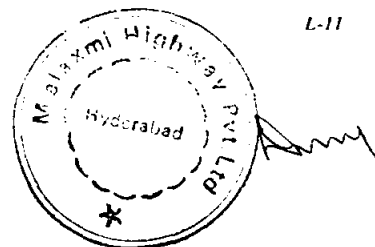
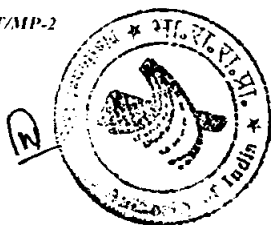
- Visual Inspection
- Close Inspection
- Thorough Inspection and described herein under

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.

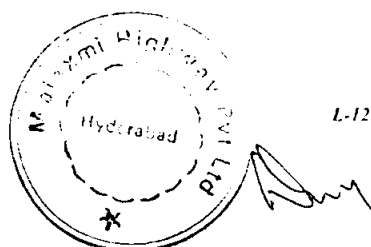
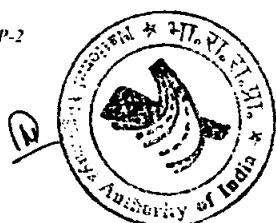
Besides being a qualified Highway/Bridge engineer; the inspection team leader must be familiar with design and construction features of the Highway /Bridges to be inspected so that the condition can be properly and accurately assessed for a meaningful report and quantification of repair works. The competence 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

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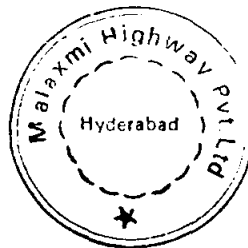
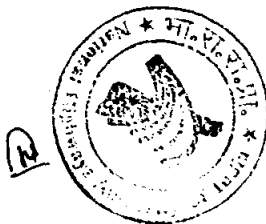
L-12

(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

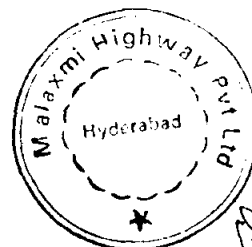
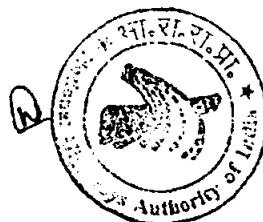
- ♦ Visual inspection
- # Close inspection
- Thorough inspection
- ♣ Visual inspection during rainy season only

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 reventive 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.

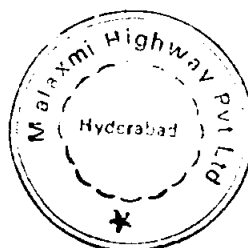
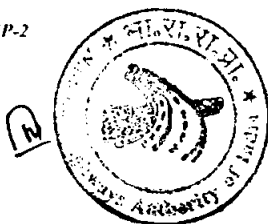
The Concessionaire is required to develop maintenance sheets for each component of the works. The Concessionaire has to utilise mechanised equipment, method and innovative solutions and technology to perform these obligations and include such process in the Maintenance Manuals.

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

RFP BOT (Annuity) NS I/BOT/MP-2



L-15

- (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.

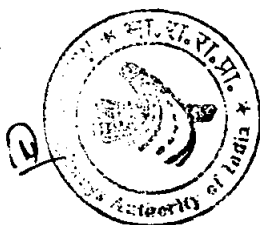
4.3.1. Pavement Riding Quality

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

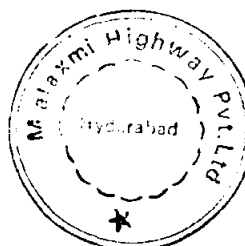
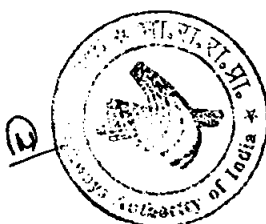
4.4.1. Major Breaches in the Roadway

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

RFP BOT (Annuity) NS I/BOT/MP-2



17

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:

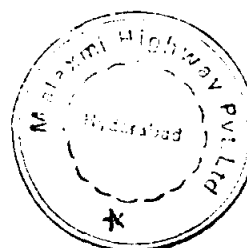
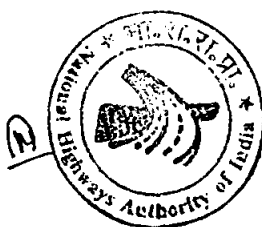
If the shoulders are deformed or scoured and are lower than 25mm from the adjacent carriageway, these shall be corrected by excavation, filling, dressing and compacting a material matching the existing material and it shall conform to the relevant MORT&H Specifications. In case of earthen shoulder repairs 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 silting 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.

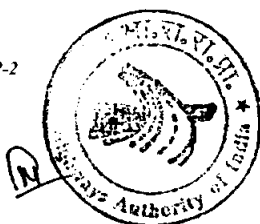
4.4.6.2. The scouring of piers and abutments of bridges and culverts shall be observed carefully particularly before and after rainy season and suitable remedial measures as deemed fit looking to site conditions shall be taken in consultation with IC.

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.

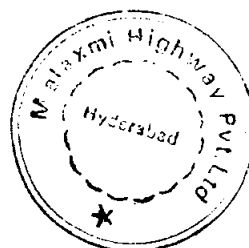
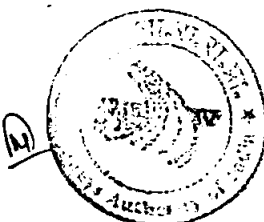
4.4.7.1. Cracking

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

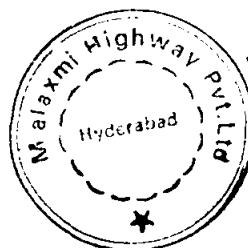
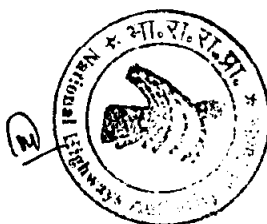
If the settlements and grade depressions exceed 1 sqm in area and their depth is within 10mm, such defects shall be treated within 3 days after detection as per directions laid out in IRC 82-1982 and based on sound engineering practice.

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.



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L-21

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 114 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

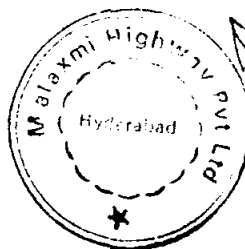
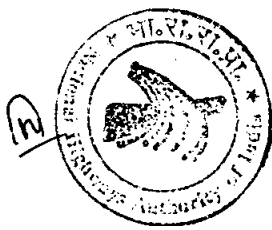
For any 50 m section of the pavement, if the bleeding surface area is not more than 1% of the pavement surface of that section and/or the bleeding surface area does not exceeds 0.25 sq.m. at a place, the same shall be treated immediately within a day after its detection in accordance with IRC:82-1982 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.

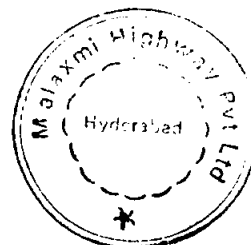
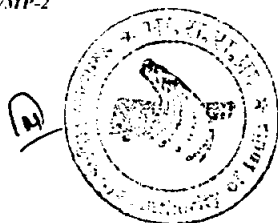
4.5.2.2. Lighting wherever provided shall be maintained by the Concessionaire in a condition nearly similar to original condition.

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

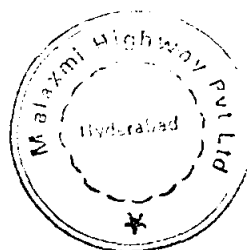
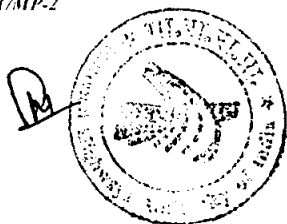
- 4.5.3.1. All traffic signs and markings shall always be kept clean, visible and in correct alignment and position.
- 4.5.3.2. Any damage to traffic signs, which reduces or threatens to reduce full and clear visibility shall be rectified within twenty four (24) hours of its occurrence. If they are used 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.

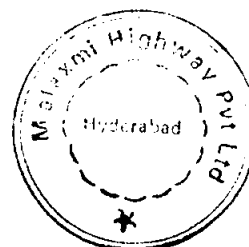
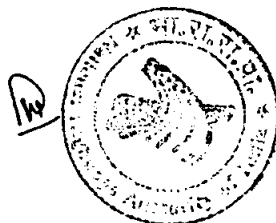
4.5.5. Maintenance of Control Centre

RFP BOT (Annuity) NS I/BOT/MP-2

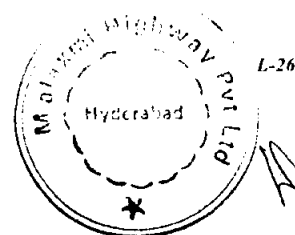
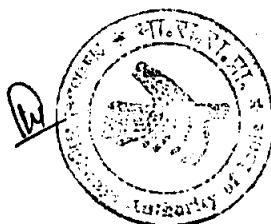


L-24

- 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.

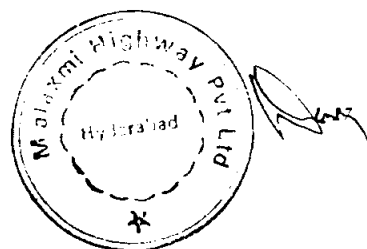
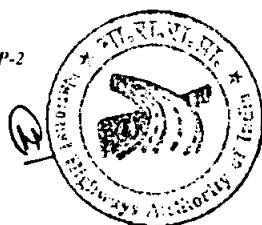
4.5.8.8. The grass/turf within RoW shall be maintained in such away that the roadway is free of obstruction and the availability of sight distance is ensured at intersections, passing zones, curves etc. The grass/turf around crash barrier, headwalls, paved ditches etc. shall be maintained neatly.

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:

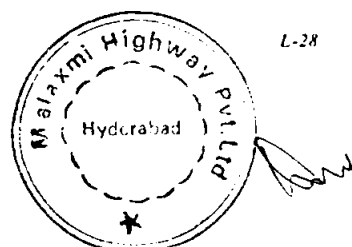
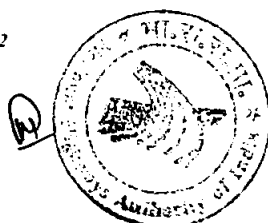
- Implementation of fully functioning IMS system – 3 months after commencement
- Staffing – 24 hrs/day and 365 days/year
- Response time to a single incident – ½ an hour after receiving notification
- Multiple incidents – as soon as possible
- Incident debriefing reports – 1 month
- Steering committee 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:

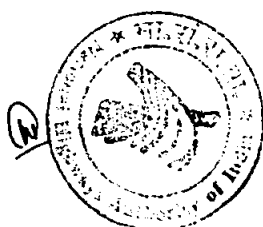
- Security guards shall patrol the route facilities areas and shall be provided by the Concessionaire. These guards shall operate on a 24 hour basis, for 365/6 days per year.
- The Concessionaire shall be responsible for maintaining/upgrading all facilities for site security, including fencing, intercom 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.

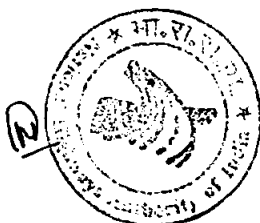
4.8.3. Inspections

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.

RFP BOT (Annuity) NS I/BOT/MP-2



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L-30

- 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

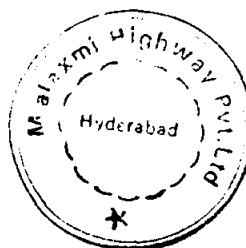
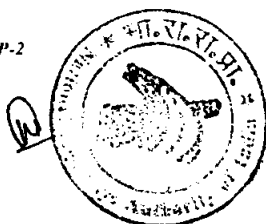
- 4.10.1. The Concessionaire shall ensure that all the Project Facilities provided for users of all categories are kept in a neat, hygienic and tidy condition. Special attention shall be given to the preparation of food items so that they are cooked with unadulterated ingredients in a hygienic manner.

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

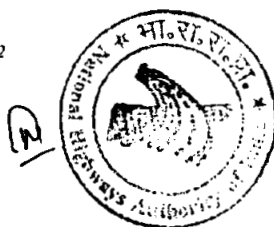


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L-31

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.

RFP BOT (Annuity) NS I/BOT/MP-2



L-32

TRANSFER CERTIFICATE

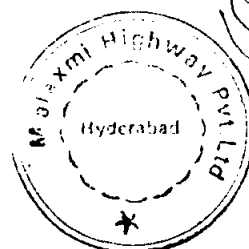
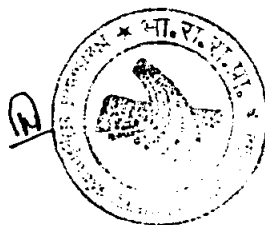
I/We, _____ (name of the Independent Consultant) issue this certificate, designated Transfer Certificate for widening of the existing 2-lanes to 4/6 lanes divided carriageway facility including rehabilitation of existing 2-lanes, from 547/400 Km to 595/925 Km on Lakhnadon-Seoni section of National Highway No. 7 (NH-7) in the State of Madhya 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)

RFP BOT (Annuity) NS I/BOT/MP-2



L-33

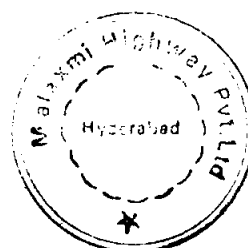
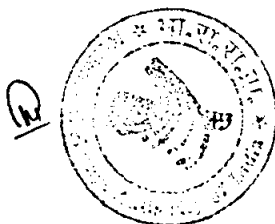
Appendix – 3.4

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



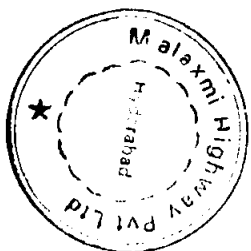
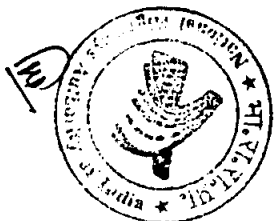
SCHEDULE M

CASH FLOW PROJECTIONS



CASH FLOW PROJECTIONS

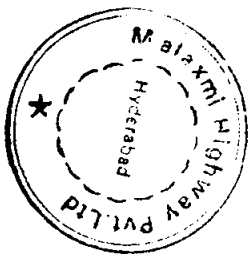
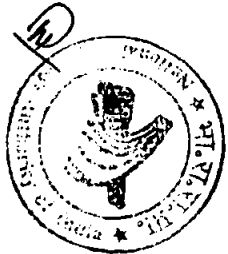
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End of semi-annual period from SPCD		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
End of Month	31-Dec-07	30-Sep-09	31-Mar-10	30-Sep-10	31-Mar-11	30-Sep-11	31-Mar-12	30-Sep-12	31-Mar-13	30-Sep-13	31-Mar-14	30-Sep-14	31-Mar-15	30-Sep-15	31-Mar-16	30-Sep-16	31-Mar-17	30-Sep-17	31-Mar-18
Initial Investment (1)	263.17																		
Annuity Amount (2)		22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42
Less:																			
Project Routine Maintenance cost (3)		1.44	1.47	1.51	1.55	1.59	1.63	1.67	1.71	1.75	1.79	1.84	1.89	1.93	1.98	2.03	2.08	2.13	2.19
Project Periodic Maintenance cost (4)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Projected Total O&M Expenses (5) = (3)+(4)		1.44	1.47	1.51	1.55	1.59	1.63	1.67	1.71	1.75	16.45	1.84	1.89	1.93	1.98	2.03	2.08	2.13	2.19
Projected Net Cash Flows (6) =(2)-(1)-(5)	-263.17	20.98	20.95	20.91	20.87	20.83	20.79	20.75	20.71	20.67	5.97	20.58	20.53	20.49	20.44	20.39	20.34	20.29	20.23
Internal Rate of Return of (6)	10.99%																		



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CASH FLOW PROJECTIONS

End of semi-annual period from SPCD	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
End of Month	30-Sep-18	31-Mar-19	30-Sep-19	30-Mar-20	30-Sep-20	31-Mar-21	30-Sep-21	31-Mar-22	30-Sep-22	31-Mar-23	30-Sep-23	30-Mar-24	30-Sep-24	31-Mar-25	30-Sep-25	31-Mar-26	30-Sep-26
Initial Investment (1)																	
Annuity Amount (2)	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42	22.42
Less:																	
Project Routine Maintenance cost (3)	2.24	2.30	2.36	2.41	2.47	2.54	2.60	2.66	2.73	2.80	2.87	2.94	3.01	3.09	3.17	3.25	3.33
Project Periodic Maintenance cost (4)	0.00	18.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.01	0.00	0.00	0.00	0.00	0.00
Projected Total O&M Expenses (5) = (3)+(4)	2.24	21.05	2.36	2.41	2.47	2.54	2.60	2.66	2.73	2.80	2.87	26.95	3.01	3.09	3.17	3.25	3.33
Projected Net Cash Flows (6) = (2) - (1) - (5)	20.18	1.37	20.06	20.01	19.95	19.88	19.82	19.76	19.69	19.62	19.55	-4.53	19.41	19.33	19.25	19.17	19.09
Internal Rate of Return of (6)																	



SCHEDULE N

**SELECTION CRITERIA FOR
INDEPENDENT CONSULTANT**



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

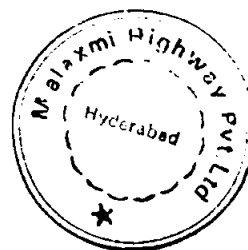
A selection committee shall do the selection; NHAI shall nominate the members of this committee.

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



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 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 in as Independent Consultant or in Construction Supervision for Highway projects during the last 7 years.	50
	TOTAL	100

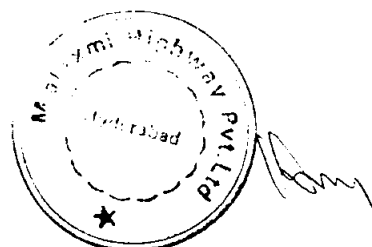
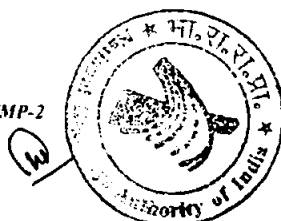
The firms should score at least 70 marks for qualifying to the next stage.

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

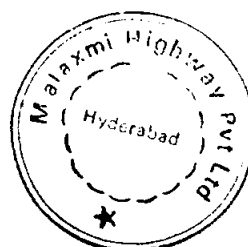
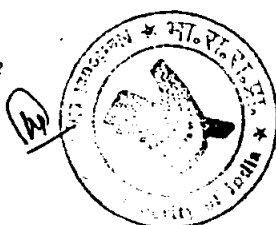
Key Personnel	Marks.
Team Leader Cum Senior Highway Engineer	18
Senior Pavement Specialist	7
Senior Bridge Design Engineer	9
Highway Design Engineer	8
Bridge/Structural Engineer	9
Road Safety Expert	3
Highway Engineer	9
Senior Quality cum Material Expert	12

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:

RFP BOT (Annuity) NS I/BOT/MP-2



N-3

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 X Bid price of lowest bidder} / {Bid price of 'X'}

5. Calculation of the combined score of a firm

The combined score of the firm will be calculated as under:

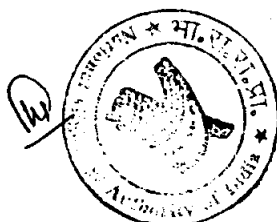
The weightage given to the technical proposal : 80%

The weightage given to financial proposal : 20%

The combined score of bidder 'X' = 0.20{Financial score of bidder 'X'} +
0.80{Technical score of bidder 'X'}

6. Negotiations and Selection of Independent Consultants

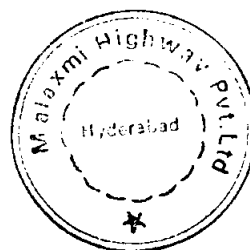
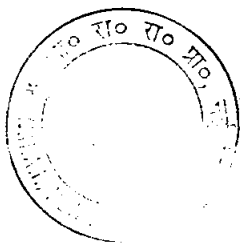
The combined score of technical and financial proposals shall be calculated and the firm scoring maximum marks shall be called for negotiations. After satisfactory agreement of all matters by both the parties, NHAI will appoint the said firm as Independent Consultant for the initial term of 48 months.



N-4

SCHEDULE O

TERMS OF REFERENCE FOR INDEPENDENT CONSULTANT



A handwritten signature in black ink, appearing to be "R. S. S.", located to the right of the Malaxmi Highway Pvt. Ltd. stamp.

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

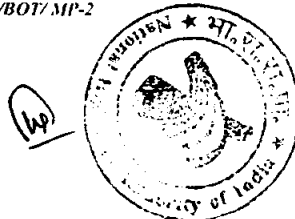
1. The National Highways Authority of India (NHA) invites proposals for Independent Consultancy Services on the basis of international Competitive Bidding for the following 7 packages in the State of Uttar Pradesh & Madhya Pradesh on North-South Corridor under NHDP Phase II programme.

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. NHA 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 NHA and Concessionaire so as to ensure compliance of requirements of Concession Agreement (ii) report to NHA 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 NHA 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/-

RFP BOT (Annuity) NS 1/BOT/MP-2

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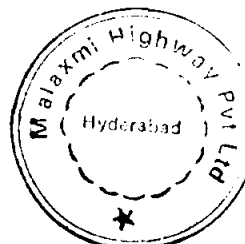
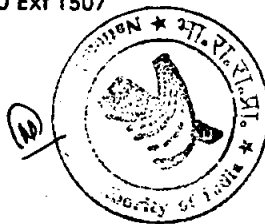


drawn in favour of "National Highways Authority of India" payable at any schedule bank in New Delhi. The RFP document is also available on NHAI website from []. The Consultant who download the RFP document from the website will be required to pay the non-refundable fee of Rs 5,000/- at the time of the 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

RFP BOT (Annuity) NS I/BOT/MP-2

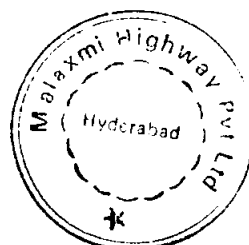
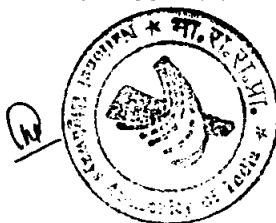


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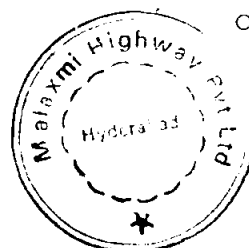
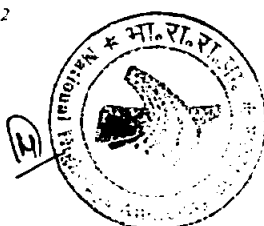
SECTION 2. INFORMATION TO CONSULTANTS

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 at 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

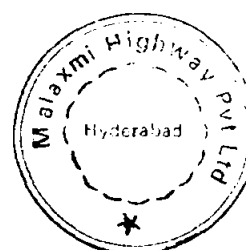
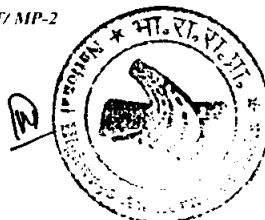
- 3.1 You are requested to submit your proposal in Three Parts in 3 separate envelopes / packages and put together in one single outer envelope/package. The three parts shall be:
 Part 1: Firms Credentials,
 Part 2: Technical Proposal and
 Part 3: Financial Proposal.
 The proposal shall be written in 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 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.

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



- 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.

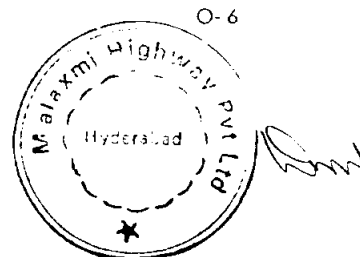
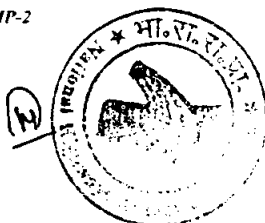
Part 3: Financial Proposal

- 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

RFP BOT (Annuit) NS I/BOT/MP-2



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

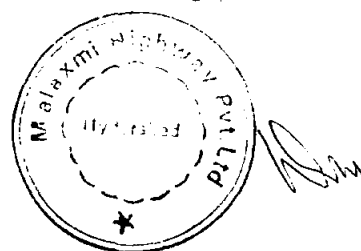
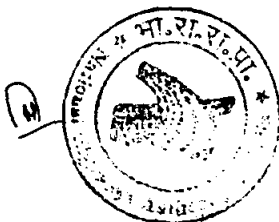
- 5.2 The Evaluation Committee appointed by the NHAI shall carry out its evaluation applying the evaluation criteria and point system specified in the data sheet. The firms should score at least 70 marks for qualifying to the next stage

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.

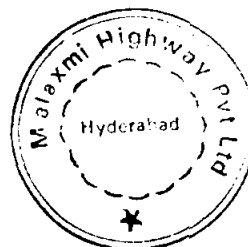
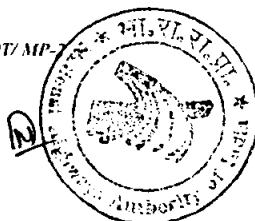


- 5.5 The Financial Proposals shall be opened publicly in the presence of the consultants' representatives who choose to attend. The name of the consultant, the quality scores, and the proposed prices shall be read aloud and recorded when the Financial Proposals are opened. The Client shall prepare minutes 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.

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



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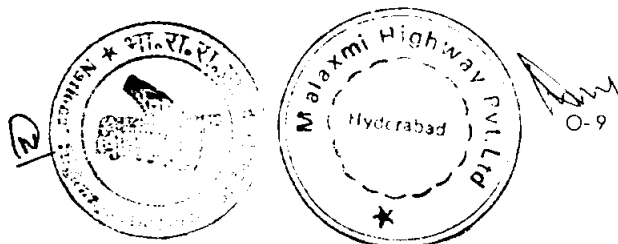
- 6.4 It is the responsibility of the Consultant, before starting financial negotiations, to contact the local tax authorities to determine the local tax amount to be paid by the Consultant under the Contract. The financial negotiations will include a clarification (if any) of the firm's tax liability 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.

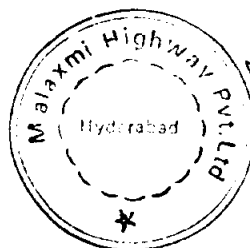
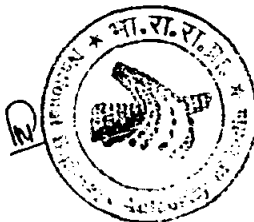
4.6 The time and date of submission 1100 hrs on _____

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 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 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.

RFP BOT (Annuity) NS I/BOT/MP-2



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

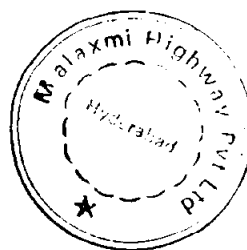
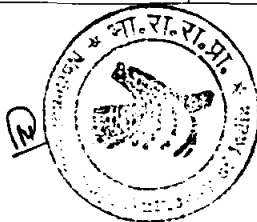
Experience as Independent Consultant / in Construction Supervision in Highway Projects	12
Experience in DPR preparation for Highway Projects	4
Experience in Construction Supervision/DPR /Design Review of Major structures having length of more then 200 meter.	4

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

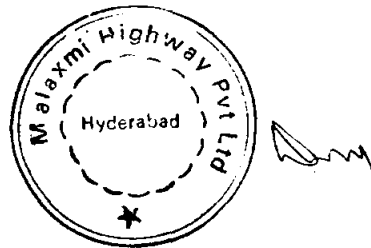
The technical proposal should score at least 75 points to be considered responsive for financial evaluation.

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.

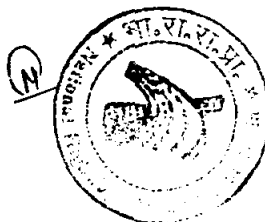


SECTION 3. FORMATS FOR SUBMISSION OF FIRMS CREDENTIALS

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.

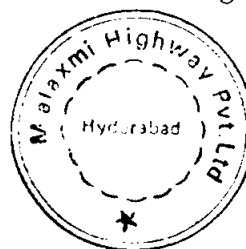
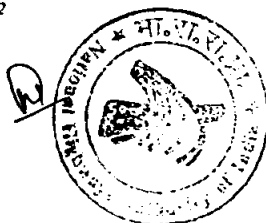
ii) The currency conversion rate for the respective years shall be mentioned for other international currencies.

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

RFP BOT (Annuity) NS I/BOT/MP-2

O- 14



certificate of the Engineer/Employer mentioning that the consultancy work has been completed satisfactorily or has been substantially completed in case of 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#**

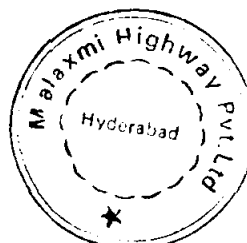
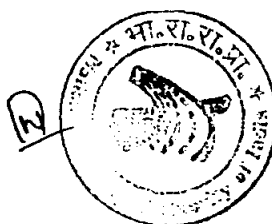
SUBSCRIBED AND SWORN to before me this _____ date of _____,

200 _____ at _____.

Please attach Power of Attorney as described or valid authorisation.

NOTARY PUBLIC

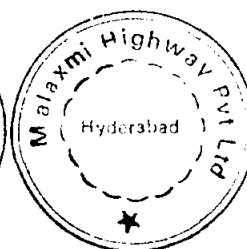
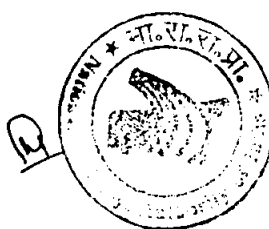
RFP BOT (Annuity) NS I/BOT/MP-2



O-15

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,

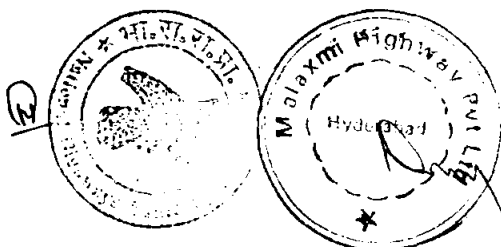
Yours sincerely,

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**

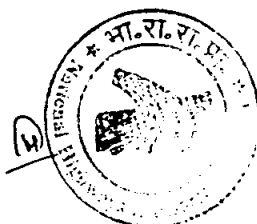
Using the format below, provide information on each reference assignment for which your firm/entity, either individually as a corporate entity or as one of the major companies within an association, was legally contracted.

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 :		

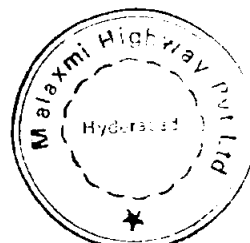
Firm's Name : _____

Note: In case of claiming experience of Highway projects completion certificate from employer must be enclosed.

RFP BOT (Annuity) NS I/BOT/MP-2



O-18



[Handwritten signature]

APPENDIX B-3 : COMMENTS AND SUGGESTIONS OF CONSULTANTS ON THE TERMS OF REFERENCE AND ON SERVICES AND FACILITIES TO BE PROVIDED BY THE NHAI

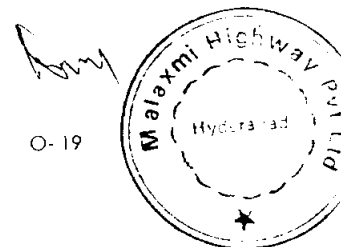
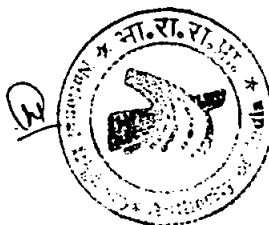
On the Terms of Reference :

- 1.
- 2.
- 3.
- 4.
-

On the services and facilities to be provided by the NHAI

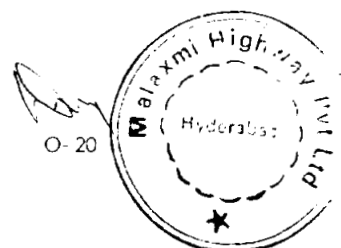
- 1.
- 2.
- 3.
- 4.
-

RFP BOT (Annuity) NS I/BOT/MP-2



**APPENDIX B-4 : APPROACH PAPER ON METHODOLOGY AND WORK PLAN FOR
PERFORMING THE ASSIGNMENT**

RFP BOT (Annuity) NS I/BOT/MP-2



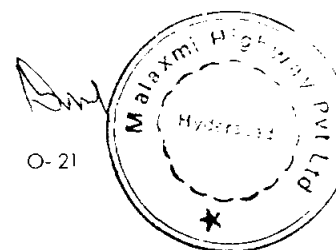
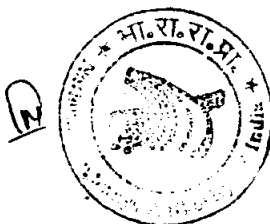
APPENDIX B-5 : COMPOSITION OF THE TEAM PERSONNEL, AND TASK(S) OF EACH TEAM MEMBER

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 :

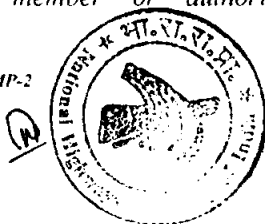
[For English language indicate proficiency : excellent, good, fair, or poor; in speaking, reading, and writing]

Certification

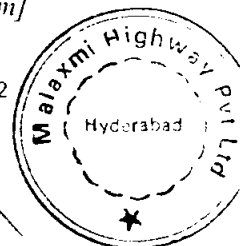
I, the undersigned, (Name and Address) certify that I have not left any assignment with the consultants engaged by NHAI / contracting firm (firm to be supervised now) for any continuing work of NHAI without completing my assignment. I will be available for the entire duration of the current project (named.....). 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.

RFP BOT (Annuity) NS I/BOT/MP-2

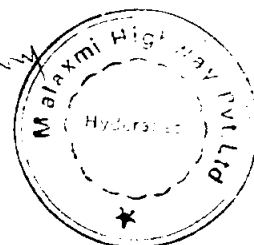
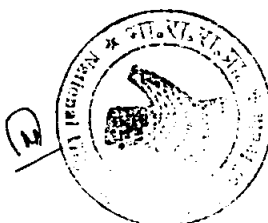


O-22



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)
-															-
-															-

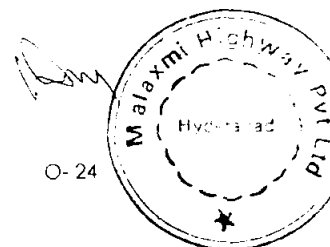
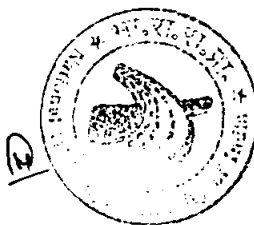


APPENDIX B-8: ACTIVITY (WORKS) SCHEDULE**A. Activity Schedule**

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												
-												
-												

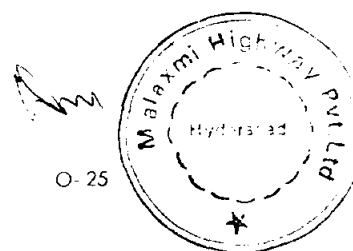
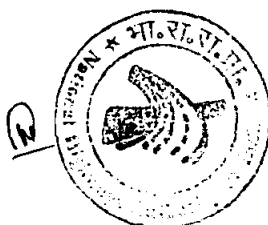
B. Completion and Submission of Reports

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.

RFP BOT (Annuity) NS I/BOT/MP-2



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.

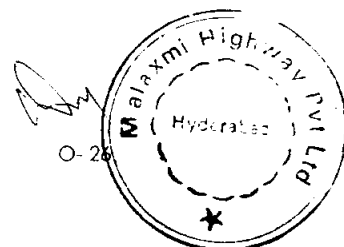
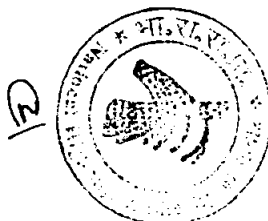
We remain,

Yours sincerely,

Authorised Signature :

Name and title of Signatory :

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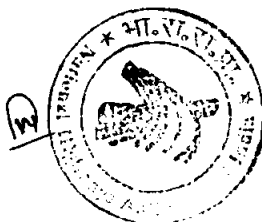
APPENDIX C2: SUMMARY OF COSTS

No.	Description	Amount (:LC)*	Amount (FC**)
	Local Consultants		
I	Remuneration for Local Key		
II	Personnel		
III	Supporting Staff		
IV	Transportation		
V	Duty Travel to Site		
VI	Office Rent		
VII	Office supplies, Utilities and		
VIII	communication		
IX	Office Furniture and Equipment		
X	Reports and Document Printing		
XI	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)**		

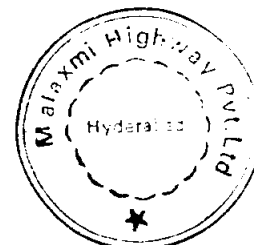
LC* Local Currency FC** in US Dollar (1+1)

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

RFP BOT (Annex) NS I/BOT/MP-2



O-27

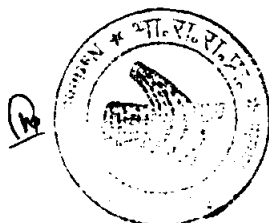


APPENDIX C-3 : BREAKDOWN OF LOCAL CURRENCY COSTS REMUNERATION FOR STAFF

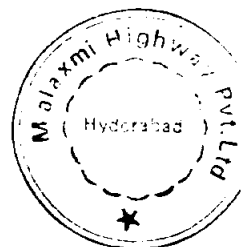
No.	Position	Name	Year 1			Year 2			Year 3			Year 4		
			Rate	SM	Amt	Rate	SM	Amt	Rate	SM	Amt	Rate	SM	Amt
	Key Personnel													
1.														
2.														
3.														
4.														
5.														
6.														
7.														
8.														
	Sub - Total													
	Sub-professional													
1.		TBN												
2.		TBN												
3.		TBN												
4.		TBN												
5.		TBN												
6.		TBN												
7.		TBN												
8.		TBN												
9.		TBN												
10.		TBN												
	Sub-Total													
	TOTAL													

SM = Staff Month TBN = To be Named

RFP BOT (Annulity) NS I/BOT/MP-2



O-28



II. Support Staff

No.	Position	Name	Staff Months	Billing Rate ()	Amount ()
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
				Total :	

III Transportation (Fixed costs)

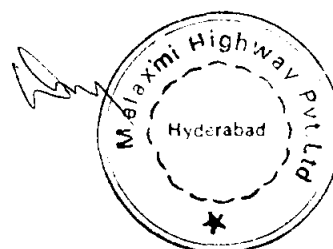
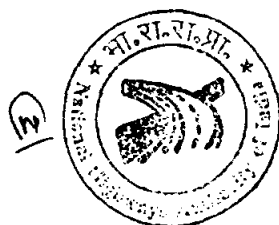
S.No	Description	Qty.	Nos. of months	Rate/ Month	Amount
1	The vehicles provided by the Consultants shall include the cost for rental, drivers, operation, maintenance, repairs, insurance, etc. A. For use of consultants				
Total					

I V. 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

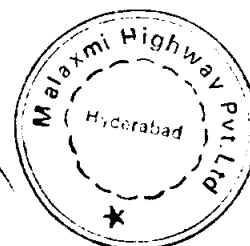
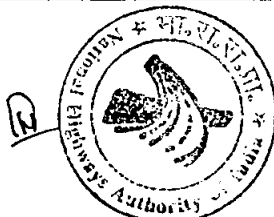
VI. Office Supplies, Utilities and Communication (Fixed Costs)

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)

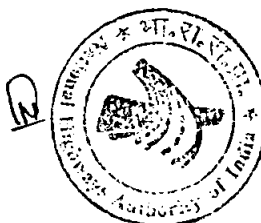
No.	Description (*)	Unit	Quantity	Rate ()	Amount ()
1	Office Furniture (Purchase)				
2					
3					
4					
5					
6					
7					
8					
9					
10					
1	Office Equipment (Purchase)				
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
				Total	



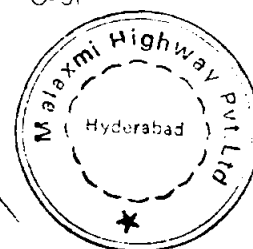
VII. Reports and Document Printing

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	

RFP BOT (Annulity) NS I/BOT/MP-2



O-31



APPENDIX C-4 BREAK UP OF COSTS IN FOREIGN CURRENCY

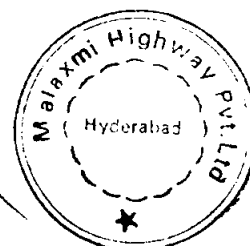
No.	Description	Currency*	Amount
I.	Remuneration for Expatriate Staff		
II.	Mobilisation and Demobilisation		
	1. International Airfares		
	2. Inland travel in Home Country		
	3. Inland Travel in Overseas Country		
	4. Excess Luggage Allowance		
	5. Unaccompanied Luggage Allowance		
	6. Relocation/Storage 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).

RFP BOT (Annuity) NS I/BOT/ MP-2



O- 32



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
_____ x _____

3. Inland Travel in Overseas Country (Fixed Rate)

local cost for travel from the airport to hotel

_____ x _____

1. Excess Luggage Allowance (Reimbursable)

At cost per person per single trip to conform to the
Official IATA rates
_____ x kg. x _____

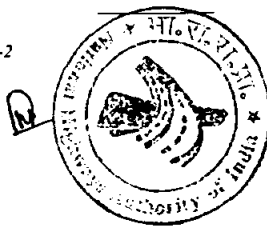
2. Unaccompanied Luggage Allowance (Fixed Rate)

At cost per family per round trip
_____ x kg x _____

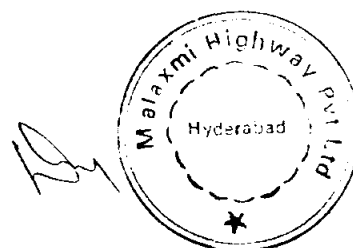
3. Relocation/Storage Allowance (Fixed Rate)

For long term staff with an assignment of more than 12 months
- family(es) x _____

RFP BOT (Annuity) NS I/BOT/MP-2



O-33



4. Travel Documents and Miscellaneous Costs (Fixed Rate)

Travel documents, visa, health certificates, etc.

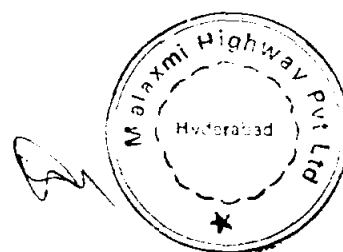
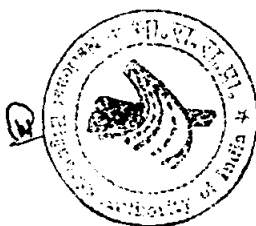
- a) Short term staff, first trip
 ___X___
- b) Short term staff subsequent trips
 ___X___
- c) Long term staff first trip
 - Family (es) x___
- d) Long term staff subsequent trip
 - Family(es) x___
 Total _____

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 ____

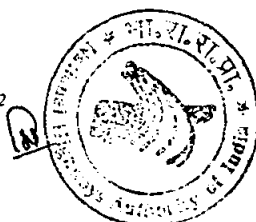
4. Other Costs (Reimbursable)

Purchase of documents

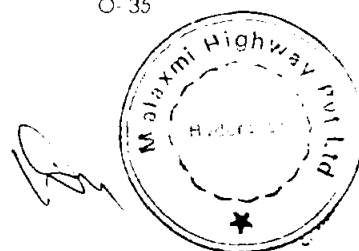
Budget for purchase of documents,
 books, maps Software, International
 standards etc. to be Reimbursed at
 cost. Allow as ceiling amount

TOTAL _____

RFP BOT (Annuity) NS I/BOT/MP-2



O-35



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

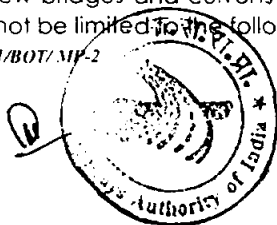
The objectives of consultancy service are to:

- 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.

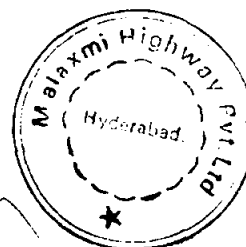
3. SCOPE OF SERVICES

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:

RFP BOT (Annuity) NS I/BOT/MP-2



O- 36



- 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.

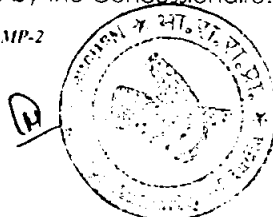
The Concession Agreement envisage the appointment of an Independent Consultant (IC) by the National Highways Authority of India (NHAI). The IC shall be, in principle, responsible for review of Designs, Drawings, Construction, Progress Monitoring, affirmation of all certifications done by the Concessionaire, 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.
- v) 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.
- vii) 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.

RFP BOT (Annuity) NS I/BOT/ MP-2



O-37

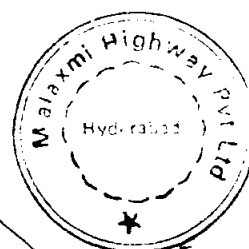


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- viii) Review the environmental management plan for the Project Highway during Construction and Operation and Maintenance phases.
- ix) Review quality assurance and quality control provisions during the design, construction and maintenance stages.
- 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



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.

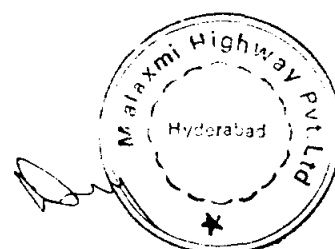
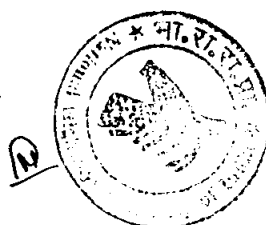
3.4 Transfer/Termination

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.



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.

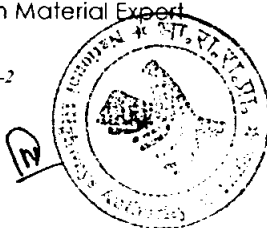
6. PERFORMANCE CLAUSE

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.

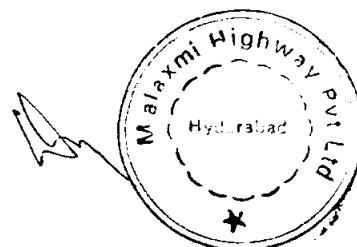
7. CONSULTANT'S PROPOSAL

- 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

RFP BOT (Annuity) NS I/BOT/MP-2



O- 40

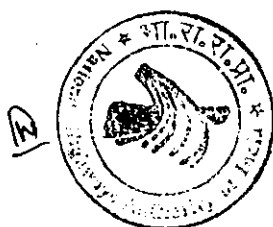


- 7.3 In addition to above, consultants are required to propose other key personnel, sub-professional staff and other field engineers as detailed in **Enclosure B**, and the minimum qualification requirements for the same is enclosed in **Enclosure-A**.
- 7.4 Broad job-description and minimum qualification 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.

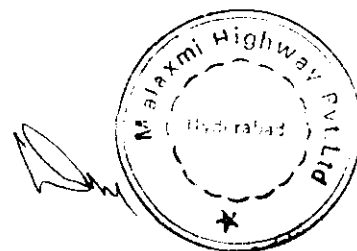
8. PERIOD OF SERVICES

- 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.

RFP BOT (Annuity) NS I/BOT/MP-2



O- 41



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

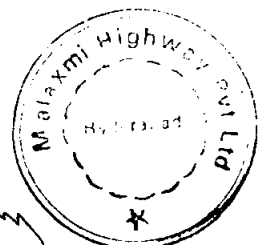
The expert shall be continuously interacting with the Concessionaire, to ensure life cycle cost effectiveness and viable design of pavement including appropriate rehabilitation / strengthening of the existing two lane pavement which is significantly distressed. He shall also be responsible for ensuring 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.

RFP BOT (Annuity) NS I/BOT/MP-2



O- 42



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

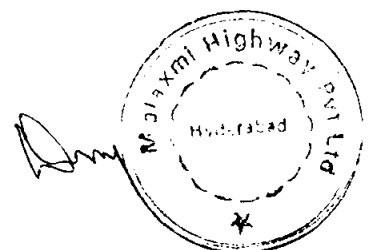
The Bridge Engineer shall be responsible for supervising the works of bridges, interchanges to be constructed by the Concessionaire for this project. He shall also inspect the bridge rehabilitation and repair works to be undertaken by the Concessionaire.

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.

RFP BOT (Annulity) NS I/BOT/MP-2



O-43



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 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.

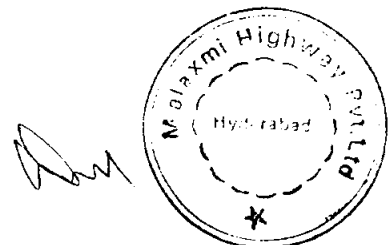
SUB PROFESSIONAL**SURVEY ENGINEER**

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.

RFP BOT (Amulya) NS I/BOT/ MP-2



O-44



ASSISTANT HIGHWAY ENGINEER

The Candidate should be Graduate in Civil Engineering with 3 years experience. He should have handled at least 1 road project.

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.

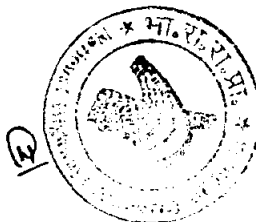
ASSISTANT QUALITY CUM MATERIAL ENGINEER

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.

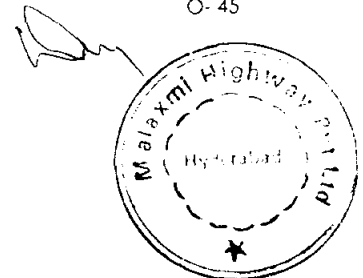
ELECTRICAL ENGINEER

The Candidate should be Graduate in Electrical Engineering from recognised institute. He should have at least 6 years experience.

RFP BOT (Annulity) NS I/BOT/MP-2



O-45

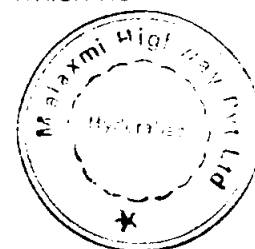


Enclosure B

**MANMONTH INPUT FOR KEY PERSONNEL OF
INDEPENDENT CONSULTANT**

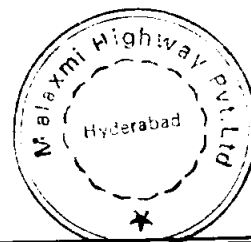
S.No.	Key Personnel	Man month in Construction	Man month in O & M
1.	Team Leader Cum Senior Highway Engineer	33	3
2.	Senior Pavement Specialist	7	2
3.	Senior Bridge Design Engineer	7	0
4.	Highway Design Engineer	6	0
5.	Bridge/Structural Engineer	30	6
6.	Highway Engineer	30	12
7.	Road Safety Expert	3	1
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.



SCHEDULE Q

ESCROW ACCOUNT AGREEMENT



SCHEDULE Q

DRAFT
ESCROW ACCOUNT AGREEMENT

Among

..... (THE COMPANY)

And

.....

As Lenders Representative

And

.....

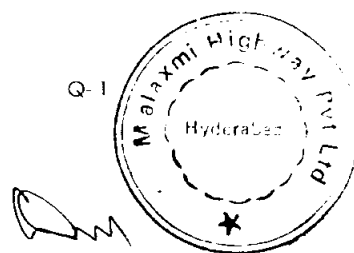
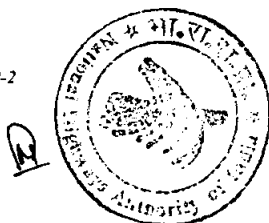
As Escrow Agent

And

NHA

(Subject to terms of the facility Agreement(s) between the Concessionaire and Senior Lenders. However, NHA position in the cashflows shall not be changed)

RFP BOT (Annuity) NS I/BOT/MP-2



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");

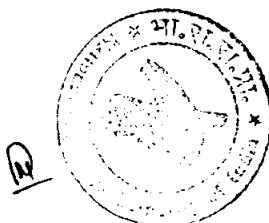
and

....., and having its registered office at
..... (the "Escrow Agent").

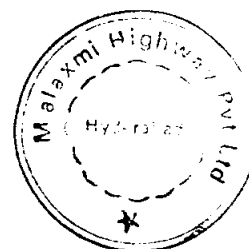
And

National Highways Authority of India (NHAI), Government of India, as Employer and
Sub-ordinate Lender (the "NHAI").

RFP BOT (Annuity) NS I/BOT/MP-2



Q-2



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.

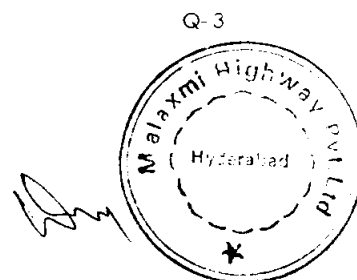
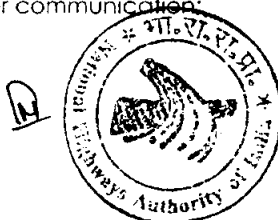
NOW IN CONSIDERATION FOR THE PREMISES IT IS AGREED BY THE PARTIES AS FOLLOWS:-

1. Definitions and Construction

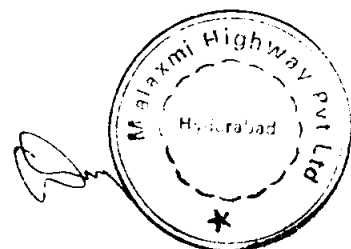
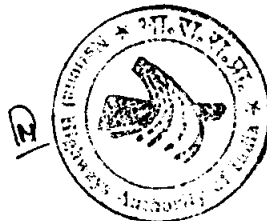
1.1 **Definitions:** Each capitalised term used herein and not otherwise defined shall have the definition assigned to such term in the Concession Agreement or the Substitution Agreement as the case may be

- **"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;

RFP BOT (Annuity) NS I/BOT/MP-2



- ✓ **"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.

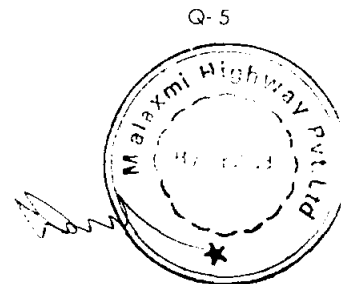
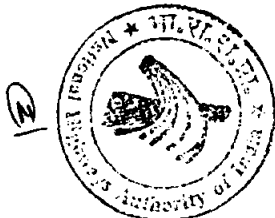
- "Year" means each twelve month period ending on March 31.

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

RFP BOT (Annuity) NS I/BOT/MP-2



date of this Agreement, from time to time be amended, supplemented or re-enacted.

- terms and expressions not expressly defined herein shall subscribe the meanings ascribed thereto in the Concession Agreement

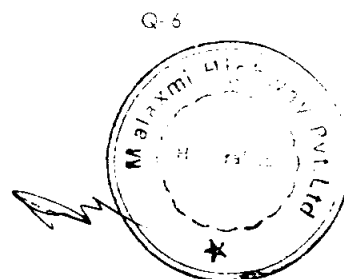
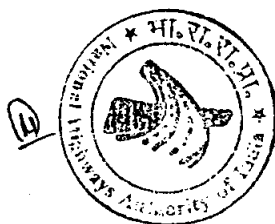
2. THE ACCOUNTS

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.



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:

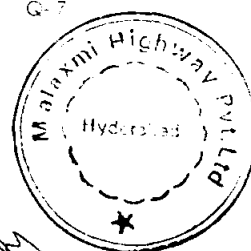
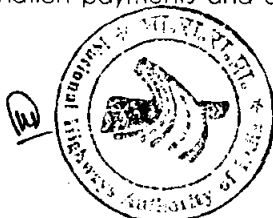
- (i) all its receivables;
- (ii) all proceeds received pursuant to any insurance claims; and
- (iii) all monies received from any other sources in relation to and in respect of the Project.

(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 NHAI agrees, confirms and undertakes that it shall deposit and/or credit the Escrow Account with:

- (i) all Fees collected by NHAI in exercise of its rights under Concession Agreement;
- (ii) **Revenue Shortfall Loan;**
- (iii) Grant, termination payments and other monies paid or disbursed in

RFP BOT (Annuity) NS I/BOT/MP-2



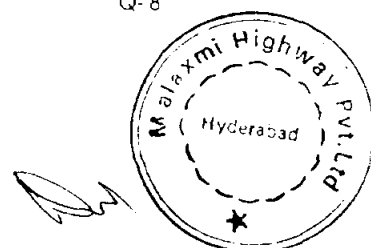
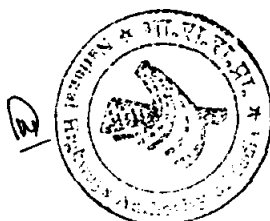
accordance with the provisions of the Concession Agreement and/or the Substitution Agreement..

- 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



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**.

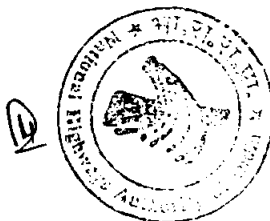
The amounts specified in Clause 3.3.1 (a) to (i) constitute the Permitted Payments.

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.

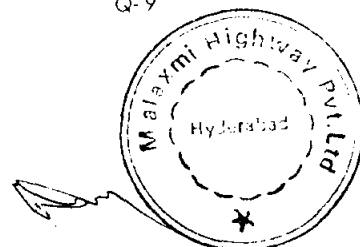
3.3.2 Notwithstanding anything to the contrary contained in this Agreement upon the earlier of (i) issue of Termination Notice (ii) termination of Concession Agreement, or (iii) the expiry of Concession Period, all amounts standing to the credit of the Escrow Account shall be appropriated and dealt with in the following order:-

- (a) all taxes due and payable by the **Company**;

RFP BOT (Annuity) NS I/BOT/MP-2



Q-9



- (b) all Concession Fees **(Including Negative Grant)** due and payable to 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.

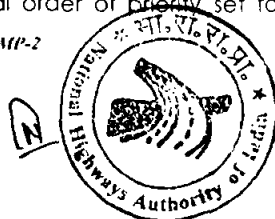
3.3.3 Notwithstanding anything to the contrary contained in this agreement, any termination payments made by NHAI into the Escrow account shall not be appropriated therefrom for any purpose whatsoever, until the Vesting Certificate has been issued by NHAI. Provided, however, that this restriction shall 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

RFP BOT (Annuity) NS I/BOT/MP-2



Q-10



payment to the Sub-Accounts are sufficient to pay a portion, but not all, of 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.

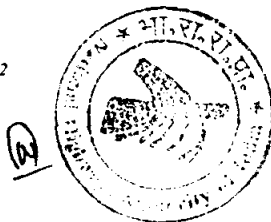
4.2.2 All documents of title or other documentary evidence of ownership with respect to Authorised Investments made out of any Escrow Account will be held in the custody of the Escrow Agent.

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.

RFP BOT (Annuity) NS I/BOT/MP-2



Q-11



4.5 Accounts Include Investments

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.

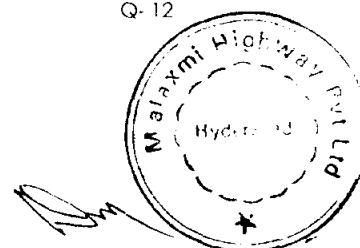
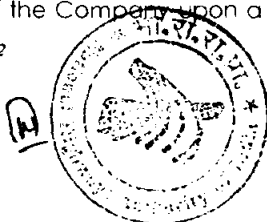
5. Withdrawals following Event of Default**5.1** If the Lenders Representative notifies the Escrow Agent that an Event of Default is likely to occur or has occurred, and is continuing, then, until such time as the Lenders Representative has notified the Escrow Agent that the Event of Default has been 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;

(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:

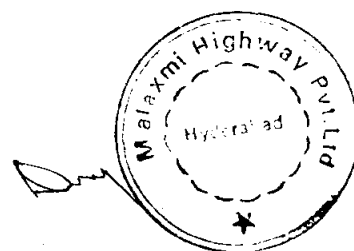
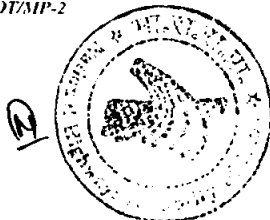
- (A) in the case of a failure to deposit funds received by the Company in the Escrow Account, by depositing the same in the Escrow Account within five Business Days of receipt of such notice;
- (B) in the case of a breach consisting of causing the Escrow Agent to transfer funds to any Company Account 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 Date provided however if NHA 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

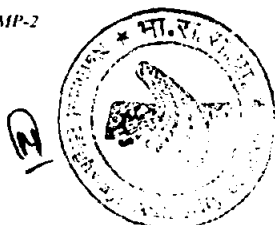
The Escrow Agent agrees not to claim or exercise any right of set off, banker's lien or other right or remedy with respect to amounts standing to the credit of the Escrow Accounts. For the avoidance of doubt, it is declared by the Escrow Agent that the monies and properties held by the Escrow Agent shall 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

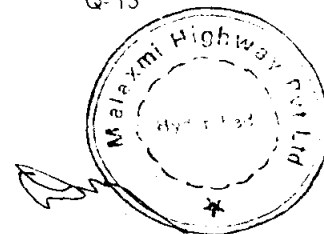
8.4.1 All notices or other communications to be given or made under this Agreement shall be in writing, shall either be delivered personally or sent by courier, registered or certified mail or facsimile. The address for service of each Party and its facsimile number is set out under its name on the signing 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 addresses 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.

RFP BOT (Annuity) NS I/BOT/MP-2



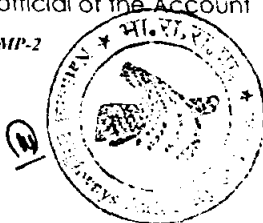
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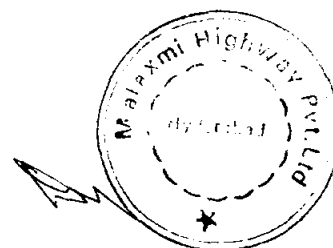
- 8.5 Waiver** Failure by any Party at any time to enforce any provision of this Agreement or to require performance by other Parties of any provision of this Agreement shall not be construed as a waiver of such provision and shall not affect the validity of this Agreement or any part of it or the right 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)

RFP BOT (Annuity) NS I/BOT/MP-2



Q-16



National Highway Authority of India

RFP PART-III: Non Technical Schedules

Trustee)

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)

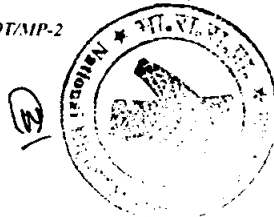
has pursuant to the Resolution)

of its Board of Directors passed in)

that behalf on the day of200)

hereunto been affixed in the presence of)

RFP BOT (Annuity) NS I/BOT/MP-2



Q- 17



National Highway Authority of India

RFP PART-III: Non Technical Schedules

Shri and Shri)
 Directors who have signed these)
 Presents in token thereof and)
 Secretary/authorised)
 Person who has countersigned the)
 Same in token thereof.)

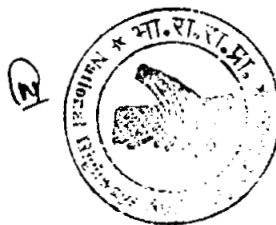
Address:

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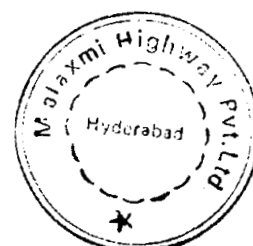
RFP BOT (Annuity) NS I/BOT/MP-2

Q-18



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 "NHA" which expression shall unless repugnant to the context or meaning thereof include its administrators, successors and assigns),

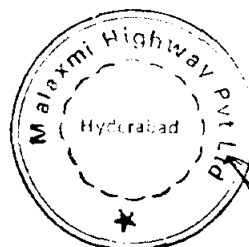
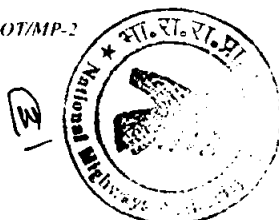
AND

- 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 NHA 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. NHA 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, NHA 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

RFP BOT (Annuity) NS I/BOT/MP-2



R-1

an Concession Agreement pursuant thereto.

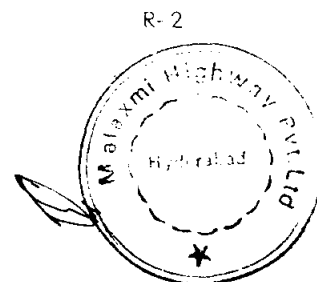
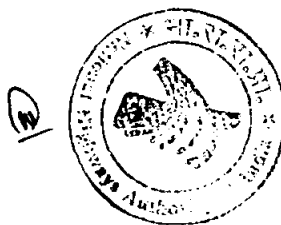
- E. The Consortium has promoted and incorporated the Concessionaire as a limited liability company to enter into the Concession Agreement pursuant to the LOA for undertaking, inter alia, the design, engineering, financing, procurement, Utility Shifting, Tree cutting, construction, operation and maintenance 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**

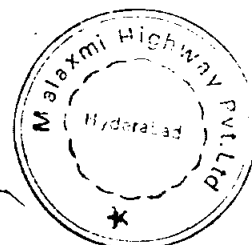
- 1.1 For the purposes of this Agreement the following terms shall have the meaning hereinafter respectively assigned to them.
- 1.1.1 **"Agreement"** means this Support Agreement and all annexures hereto and amendments if any thereto made in accordance with the provisions contained

RFP BOT (Annuity) NS 1/BOT/MP-2

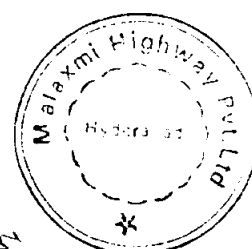
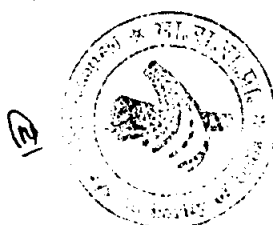


herein in this behalf.

- 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);



- (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 dates.

- (m) "Concessionaire" shall include Selectee under the Substitution Agreement.

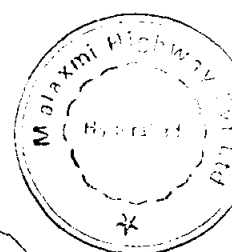
2. TERM

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:

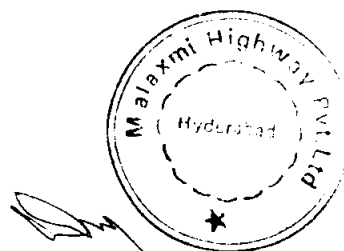
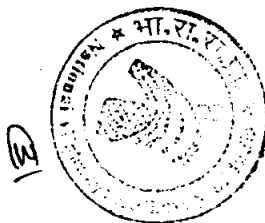
- (i) so long as the Concessionaire is not in breach of its obligations under this Agreement, GO* agrees to enable access to the Site to the Concessionaire for peaceful use of and operations at the Site by the Concessionaire under and in accordance with the provisions of the Concession Agreement without 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 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 bypass, 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 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

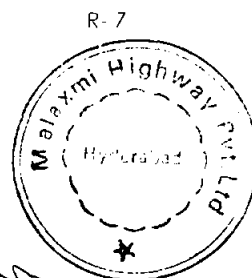
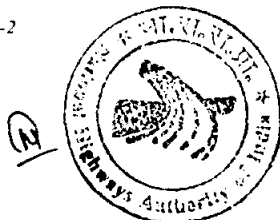
4.1. Concessionaire agrees and undertakes to perform, observe and comply with the following :

- (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

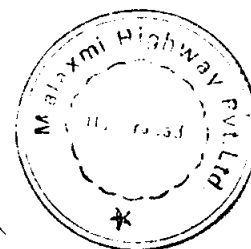
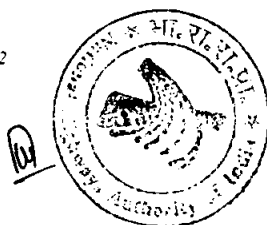
5.1. The Concessionaire represents and warrants to **GO*** that :

- (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 immunity in any jurisdiction in respect thereof;

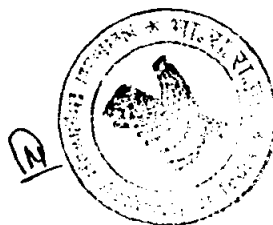
- (vi) All the information furnished to the **GO*** pertaining to the Concessionaire including its constitution and existing and proposed shareholding structure is now and shall be true and correct as on the Appointed Date and COD and the Balance Sheet and Profit and Loss Account of the Concessionaire 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;

- (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.

RFP BOT (Annuity) NS I/BOT/MP-2



R-9



5.2. **GO*** represents and warrants to the Concessionaire that :

- (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:

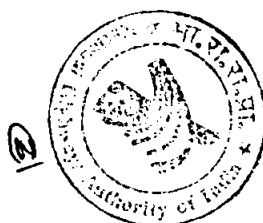
- (i) Agrees that the execution, delivery and performance by it of this Agreement do not constitute sovereign acts;
- (ii) Agrees that should any proceedings be brought against it or its assets in relation to this Agreement or any transaction contemplated by this Agreement, no sovereign immunity from 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

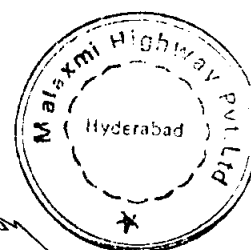
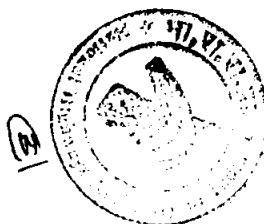


breach is not cured within 30 days of receipt of a notice in writing from the Concessionaire to **GO*** and NHAI and which has not occurred as a result of Concessionaire's breach of its obligations under this Agreement or the Concession Agreement, **GO*** shall pay to the Concessionaire, all direct additional 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 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;

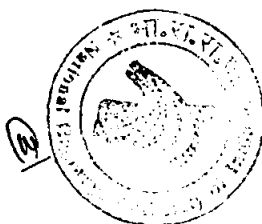
- 8.4. In the event that either party hereto receives a claim from a third party in respect of which it is entitled to the benefit of an indemnity under Clause 8 or in respect of which it is entitled to reimbursement (the "Indemnified Party") within 14 (fourteen) days of receipt of the claim or payment, 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

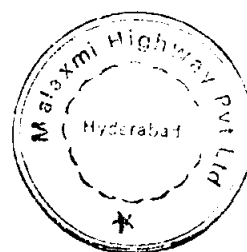
- 9.1. This Agreement shall be governed by and construed and interpreted in accordance with the laws of India. The provisions contained in Clause 8 shall survive the termination of this Agreement.
- 9.2. Any dispute, difference or claim arising out of or in connection with or in relation to this Agreement 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 Counsel 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

RFP BOT (Annuity) NS I/BOT/MP-2



R- 12



10.1. Alteration of Terms

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.

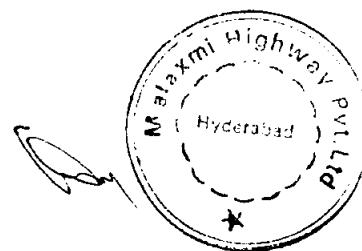
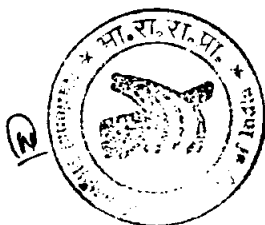
10.4. Language

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:

IF to **GO***:



National Highway Authority of India

RFP PART-III: Non Technical Schedules

FOR NHAI

BY : _____

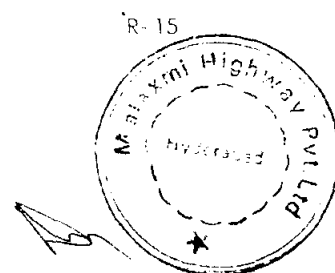
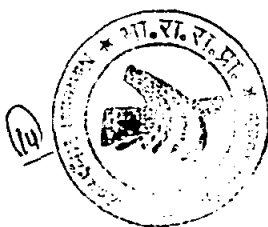
Name : _____

Title: _____

In the presence of :

- 1.
- 2.

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

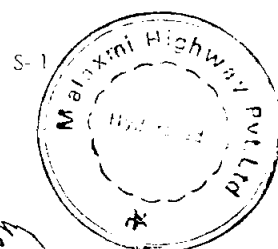
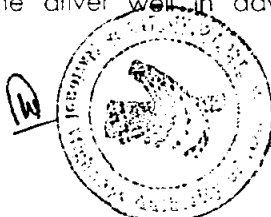
- (i) warning to the drivers unambiguously and sufficiently in advance of the situation on the highway;
- (ii) providing clear demarcation for movement of vehicles;
- (iii) providing devices to guide the drivers and their movements through construction zones/lane closures/traffic diversions etc.
- (iv) 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



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.

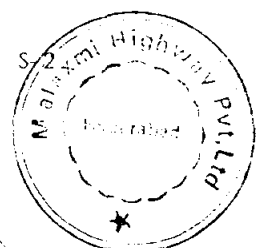
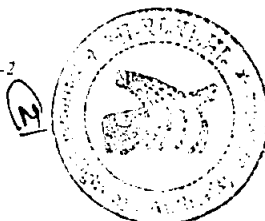
The elements for designing this sub-zone are speed of the vehicles, extent of lateral shift and elevation difference between the normal and the diverted paths. The essential safety measures shall include delineation of the travel path and prevention of wayward movements of vehicles by means of barricades, 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

RFP BOT (Amnity) NS UBOT/MP-2



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.

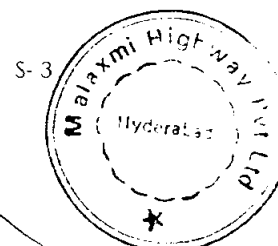
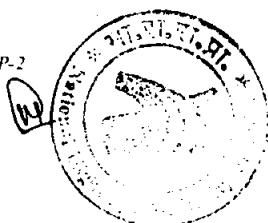
2.3 Traffic Control Devices

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



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 informative 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).

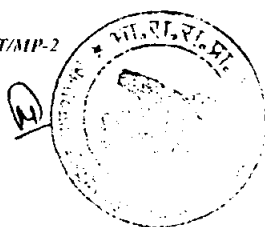
2.3.2 Delineators

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

RFP BOT (Annuity) NS I/BOT/MP-2



S- 4

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.

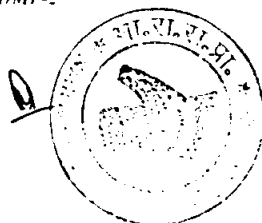
2.3.4 Flagmen

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.



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.

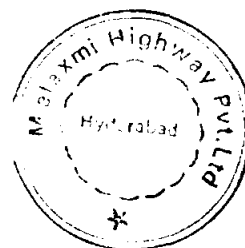
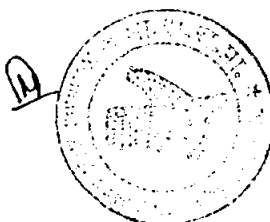
2.4.1.2 The warning for the construction ahead shall be provided by the sign "Men at Work" about 1 km earlier to the work zone. In addition, a supplementary plate indicating "Diversion 1 km ahead" and a sign "Road Closed Ahead" shall be placed. "Compulsory Turn Right/Left Sign" shall follow it. The "Detour" 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



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.

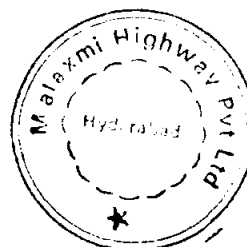
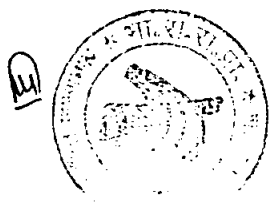
"The traffic lane or carriageway closed" sign shall also be provided at barricades along with "Keep Right/Left" sign.

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



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

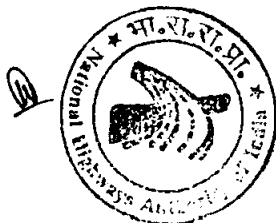
- (a) The service roads on either side together with side drains shall be constructed initially.

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



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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.

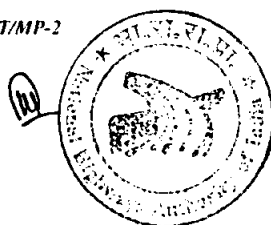
2.5.2 Highway Patrol

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



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.

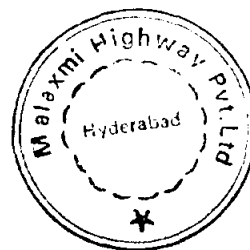
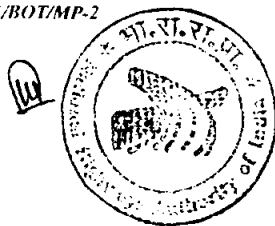
2.6.3 The following principles shall be kept in view in Emergency situations from safety considerations:

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.



2.7 Safety of Project workmen at Site

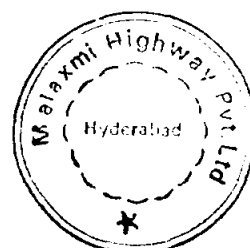
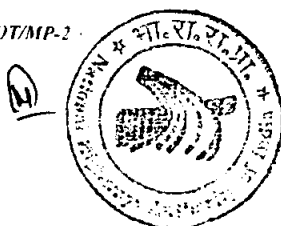
- 2.7.1 Safety of the Project Workers at site during duty hours is the responsibility of the Concessionaire. It shall be ensured by him that safety measures appropriate for the job a workman performs shall be provided.
- 2.7.2 Also, safety measures against accidents of the Workers by the traffic using 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

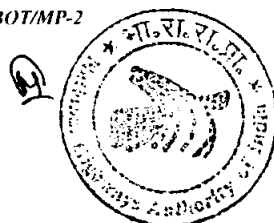


facilities as aforesaid and recover the cost incurred on that behalf from the Concessionaire, and no claims whatsoever shall be entertained.

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.

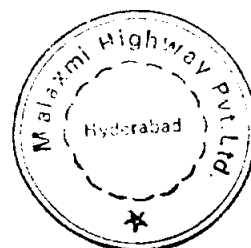
10.0 Safety Precautions

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

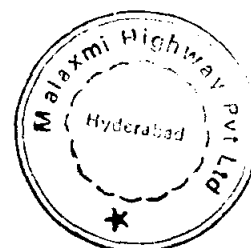
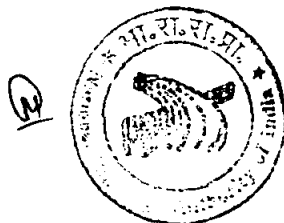
- Number of Partners and Professional Staff
- Experience of the firm on roads project
- Presence in India and in the region
- Experience of the firm on other similar work in other sectors.

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

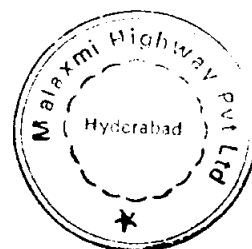
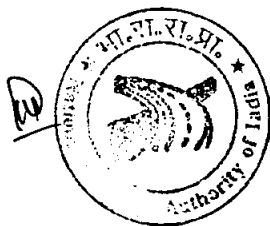


8. Period of Services

3. **Evaluation of Technical Proposal**

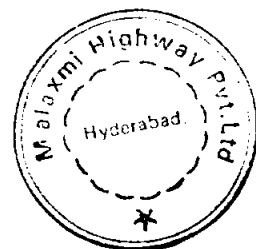
The technical proposals received from shortlisted firms shall be evaluated based on the following :

- 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").

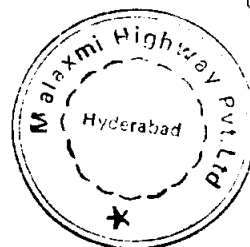
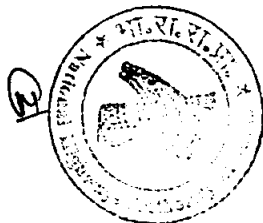
(NHAI, the Concessionaire and the Senior Lenders are hereinafter collectively referred to as the "Parties" and individually are hereinafter referred to as "Party").

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

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Concessionaire so as to enable the Concessionaire to build, operate and maintain the same pursuant to and in accordance with the Concession 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.

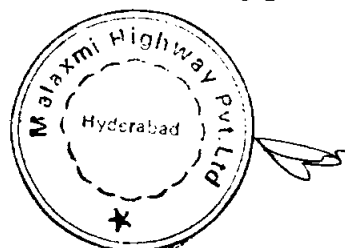
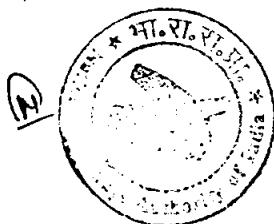
NOW THEREFORE THE PARTIES HITHERTO HEREBY AGREE AND THIS AGREEMENT

WITNESSES AS FOLLOWS:

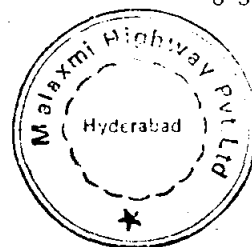
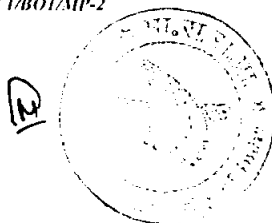
ARTICLE 1

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 it on account of Lenders Dues.

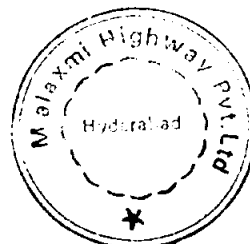
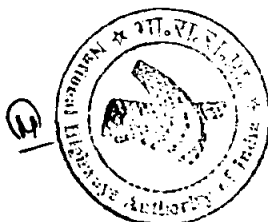


- (iii) Any event of default under or breach of any of the terms of any of the Financing Documents or Project Agreements concerning the Project which in the sole opinion of the Lenders Agent is material or major and which may seriously affect the ability of the Concessionaire to meet its payment obligations 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.

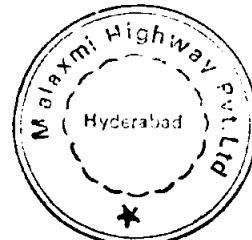
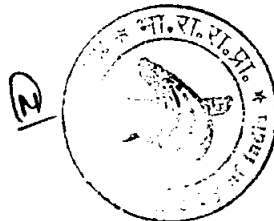
- 1.1.9 **"Notice of Default"** shall have the meaning ascribed thereto in Clause 2.2(a).
- 1.1.10 **"Proposal"** shall have the meaning ascribed thereto in Clause 3.1 (iii).
- 1.1.11 **"Project Agreements"** means this Agreement, the Concession Agreement and certain other agreements and contracts entered 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



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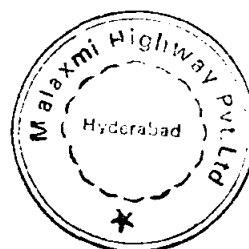
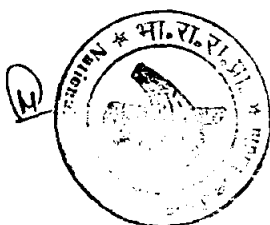
entity);

- 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 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.
- (c) NHAI and the Concessionaire hereby irrevocably agree that the

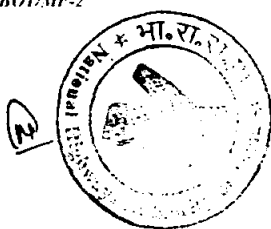


Lenders Agent may within 30 (thirty) days of the date of delivery of the Notice of Default of the Concessionaire and without prejudice to any other right or remedy available to the Senior Lenders under the Financing Document, notify NHAI and the Concessionaire on behalf of all the Senior Lenders about 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;
- (v) the Selectee shall have not been in breach of any agreement



between the Selectee and NHAI ; and

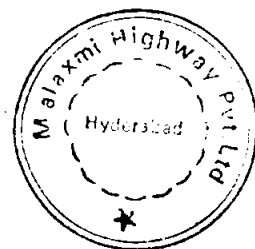
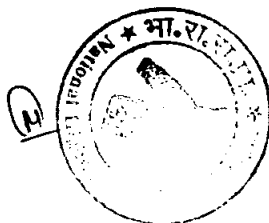
- (vi) any other appropriate circumstance, whereby continuity in the performance of the Concessionaire's obligations under the Concession Agreement is maintained and the security in favour of Senior Lenders under the Financing Documents is preserved.

- 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

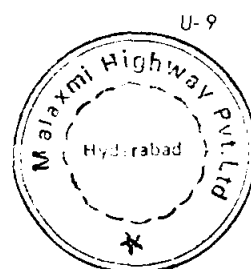
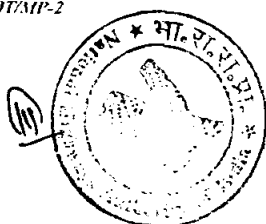
- 3.1 The following modalities shall be applicable to any substitution of the Concessionaire by the Selectee pursuant to this Agreement :
- (i) The Lenders Agent may invite, negotiate or procure offers either through private negotiations or public auction or process of tender or otherwise for the substitution 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 proposed Selectee for the residual period of Concession on the



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same terms and conditions, and

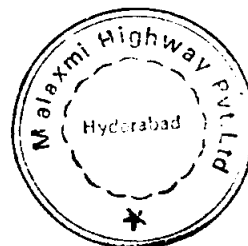
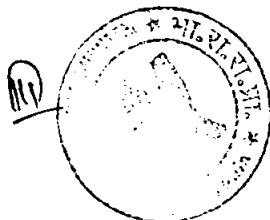
- (iii) The Lenders Agent on behalf of the Senior Lenders shall be entitled, within a period of 120 (one hundred twenty) days from the date of delivery to NHAI of the Substitution Notice pursuant to Clause 2(c) above, to select and propose to NHAI for its approval a Selectee (the "Proposal"). The Proposal 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 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.

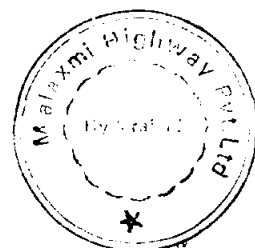
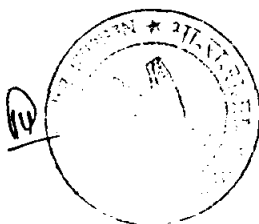
- (v) The substitution as aforesaid shall be subject to the Selectee, obtaining requisite Indian Government approvals, clearances and permission necessary for operating the Concession under and in accordance with the Concession Agreement.
- (vi) The objection if any of NHAI to the substitution as aforesaid 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.

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 Agreement including the Concession, the liabilities representing the Lender's Dues save and except to the extent of Termination Payments due and



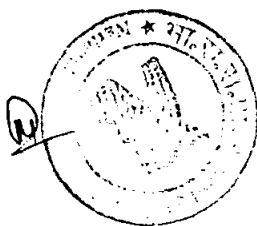
payable upon such Termination under the Concession Agreement. In such an event NHAI's obligation shall be limited to assumption of such liabilities and payments of dues as NHAI has agreed to bear under the Concession Agreement.

- 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 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

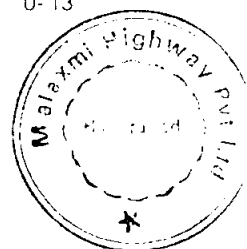
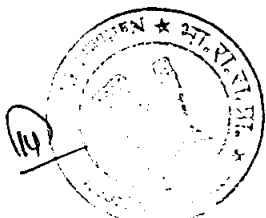
TERMINATION OF THE CONCESSION BY THE NHAI

- 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.

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



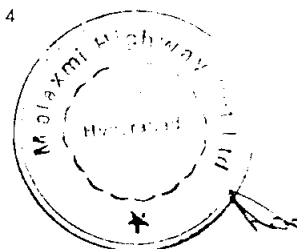
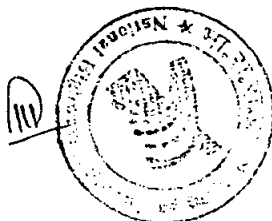
Payments into the Escrow Account and the Senior Lenders shall be entitled to receive the same without any further reference to or consent of the Concessionaire under and in accordance with the Concession Agreement towards the satisfaction of the Senior Lenders Dues out of and limited to the sum of Termination 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

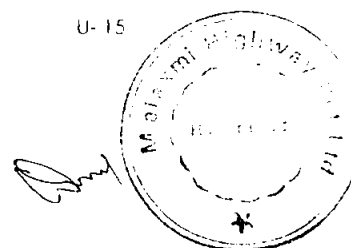
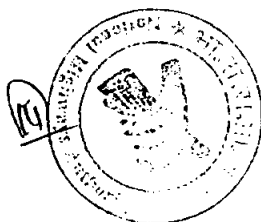
GENERAL

- 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 "NHA", 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 NHA and the successor – in interest of such Senior Lender, Lenders Agent or NHA 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 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 :

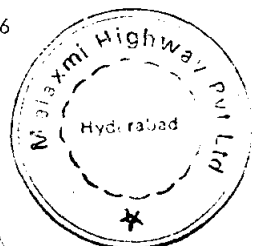
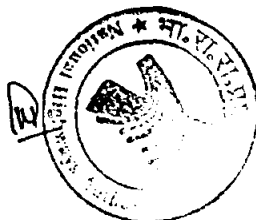
SIGNED AND DELIVERED ON BEHALF OF

SENIOR LENDERS

BY : _____

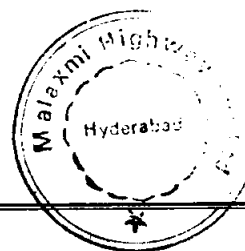
Name :

Title :



SCHEDULE V

VESTING CERTIFICATE



SCHEDULE V

VESTING CERTIFICATE

National Highway Authority of India ("NHA") 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, NHA 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 NHA free from all encumbrances, charges and liens whatsoever.

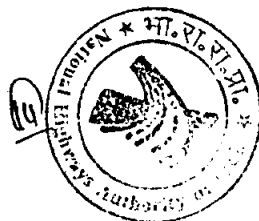
Notwithstanding anything to the contrary contained hereinabove it shall be a condition of this Vesting Certificate that in the event of any defect or efficiency in any of the Divestment Requirements set forth in Clause 33.4 of the Concession Agreement being found or discovered at any time hereafter, 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:

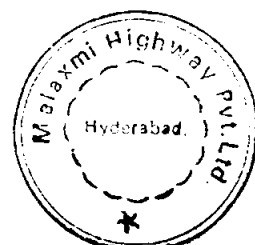
For National Highway Authority of India
By:.....

Name:
Title:
Dated:



SCHEDULE W

PASSENGER CAR UNIT FACTORS



SCHEDULE W

PASSENGER CAR UNIT FACTORS

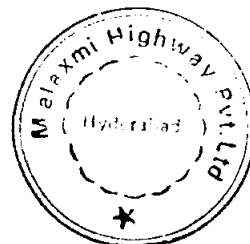
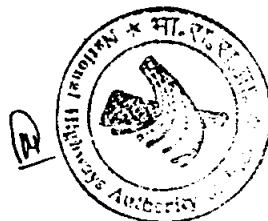
The equivalency factor for the conversion of different types of vehicles into equivalent Passenger Car Units (PCUs) based on their relative interference value shall be as per the following table:

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.

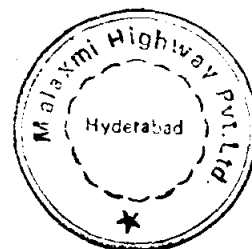
** Recommended PCU factors for various types of vehicles in accordance with IRC:64-1990 on "Guidelines for Capacity of Road in Rural Areas"

*** 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.



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

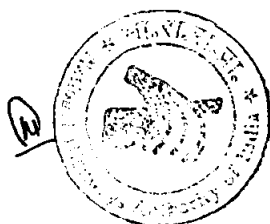
2.0 Part I

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.

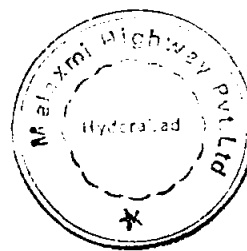
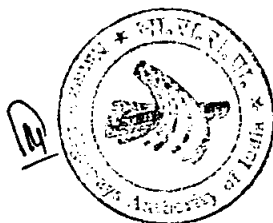
A. Design & Construction Stage

- 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

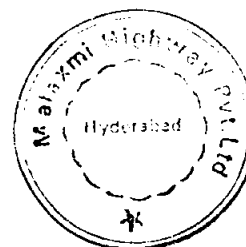
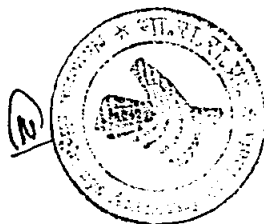


Consultant, during the month ended.

- "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



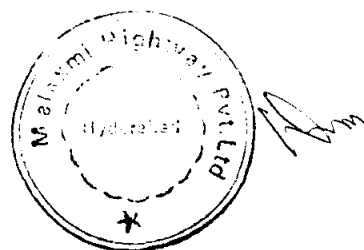
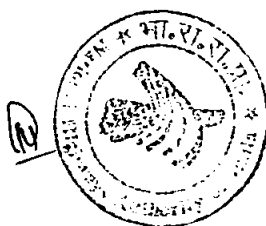
- be completed.
- The Concessionaire is required to maintain the existing two lanes during the Construction Period. This monthly construction report shall also contain information in respect of maintenance activity, if any, carried out by the Concessionaire during the month ended in respect of these 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



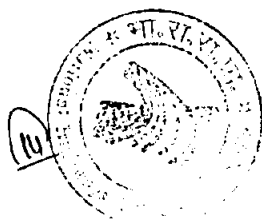
of such test results) resulting from any ground, physical or geophysical investigation or archaeological or ecological survey of the Site or Adjacent Areas.

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.



- 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



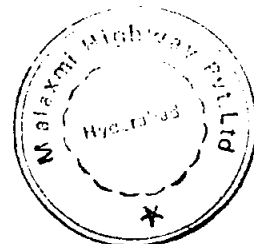
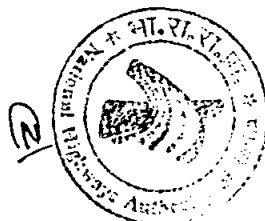
(including any interpretation of such test results) resulting from any ground, physical or geophysical investigation or archaeological or ecological survey of the Site or Adjacent Areas.

3.0 Part II

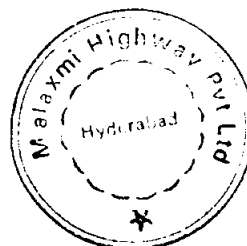
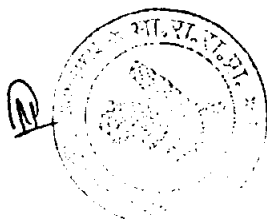
Record Requirements

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



	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



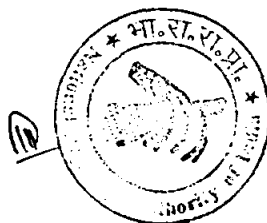
3.4 Full sets of all Monthly Reports	Till handover to NHAI at Termination of the Concession
3.5 Adequate records of adverse meteorological conditions.	Till handover to NHAI at Termination of the Concession
3.6 Records of landscape planting.	Till handover to NHAI at Termination of the Concession
3.7 Schedule 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.

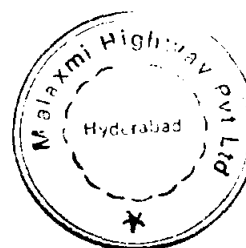
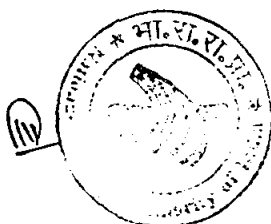
5. Additional Requirements

- 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:

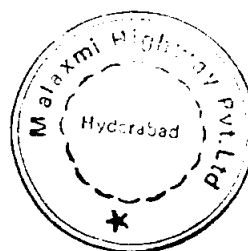
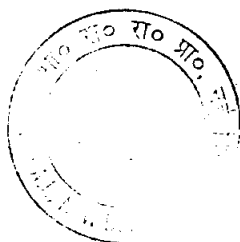
5.3.1 All records of operational aspects of the record keeping system shall be retained.



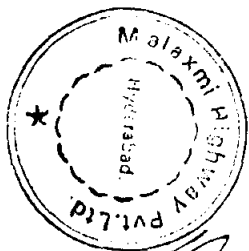
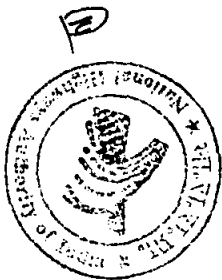
- 5.3.2 Operations' Records shall be systematically and periodically up-dated and filed so as to be readily retrievable.
- 5.3.3 All records which have been superseded but are still of historical, contractual or legal importance shall be retained and filed systematically so as to be available anytime.
- 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.



ADDENDUM / AMENDMENTS AND ENCLOSURES AND ADDITIONAL AMENDMENTS TO TECHNICAL SCHEDULES

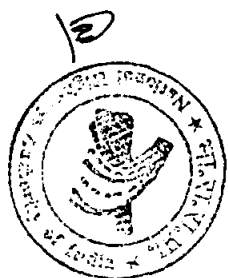


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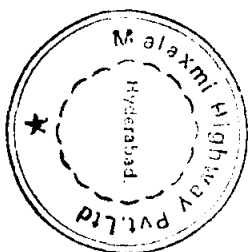


Sub: RFP Part-IV for all the Seven packages

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 /NHAI"
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 additon, the Concessandaire.....as mentioned I n 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

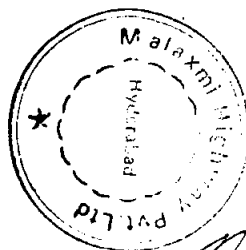
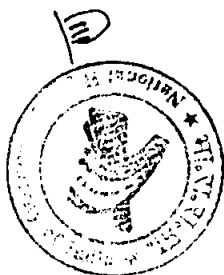


Sl.no.	Relevant Clause of RFP	As in issued document	Revised/Modified to
7	Clause 4.3.1 of Schedule _L of RFP Part-IV	" The riding.... i) Surface2000mm/Km....integrator. ii) Surface3000mm/Km.....20000mm/Km"	" The riding.... i) Surface1800mm/Km...integrator. ii) Surface ...2500mm/Km.....1800mm/Km"
8	Schedule -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"



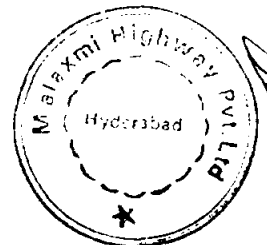
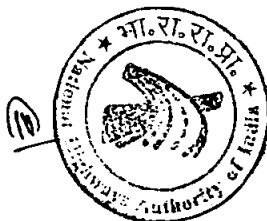
Sub: NS I/ BOT/ MP-2 ,RFP Part-IV

Sl.no.	Relevant Clause of RFP	As in Issued document	Revised/Modified to
1	Table B-I of Schedule-B of RFP Part – IV	-	Modified Table B-1 of cross section type along the Project Highway is enclosed. This shall replace existing Table B-1.
2.	Drawing Sheet No. 60,61 and 62 Of Annexure-I of RFP Part – IV	-	Modified drawing No.NHAI/CEG/NH-7/TCS_1&2/ Revision-1, No.NHAI/CEG/NH-7/TSC_3&5/ Revision-1 and No.NHAI/CEG/NH-7/TCS_6&7/ Revision-1, of Annexure-I are enclosed. These shall replace the existing drawing sheets.
3.	Figure B1, B2, and B3, of Schedule B of REF Part-IV	-	Modified figures B1, B2, and B3, are enclosed. These shall replace existing figures B1 to B3
4.	Column 3 of Table B-10 of Schedule-B of RFP Part – IV	"Proposed Span"	"No X Span length in m"
5.	Sheet No 40 of Annexure-I of RFP Part – IV	"Proposed Cattle Crossing at Ch.587+258.760"	"Proposed Cattle Crossing at Ch.583+222.550"



Modified Table B-1 : Cross Section Type along the Project Highway (MP-2)

S.No.	From (Design Ch.in m.)	To (Design Ch.in m.)	Applicable Proposed CS	Actual Length of Road (m)
1	547400	547975	TCS-1	575
2	547975	550325	TCS-5	2350
3	550325	550975	TCS-6	650
4	550975	551000	TCS-2	25
5	551000	551550	TCS-1	550
6	551550	553500	TCS-3	1950
7	553500	555900	TCS-1	2400
8	555900	559775	TCS-5	3875
9	559775	559875	TCS-7	100
10	559875	562700	TCS-3	2825
11	562700	566300	TCS-7	3600
12	566300	566725	TCS-6	425
13	566725	572200	TCS-1	5475
14	572200	575225	TCS-5	3025
15	575225	578250	TCS-1	3025
16	578250	581300	TCS-5	3050
17	581300	582450	TCS-1	1150
18	582450	583300	TCS-2	850
19	583300	583550	TCS-6	250
20	583550	584325	TCS-5	775
21	584325	589250	TCS-1	4925
22	589250	589675	TCS-2	425
23	589675	589750	TCS-6	75
24	589750	594725	TCS-5	4975
25	594725	596750	TCS-1	2025



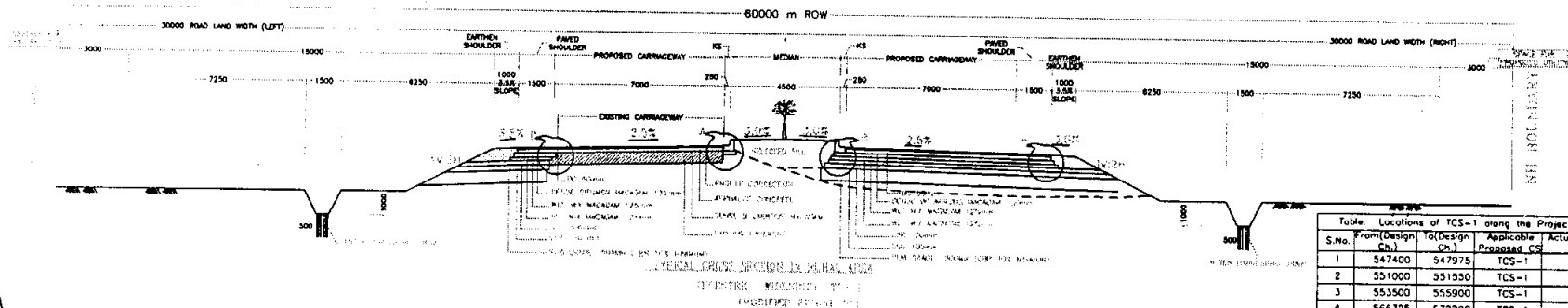
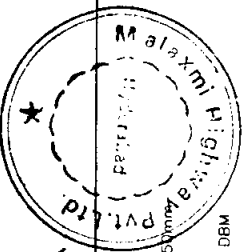
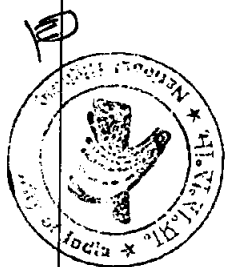
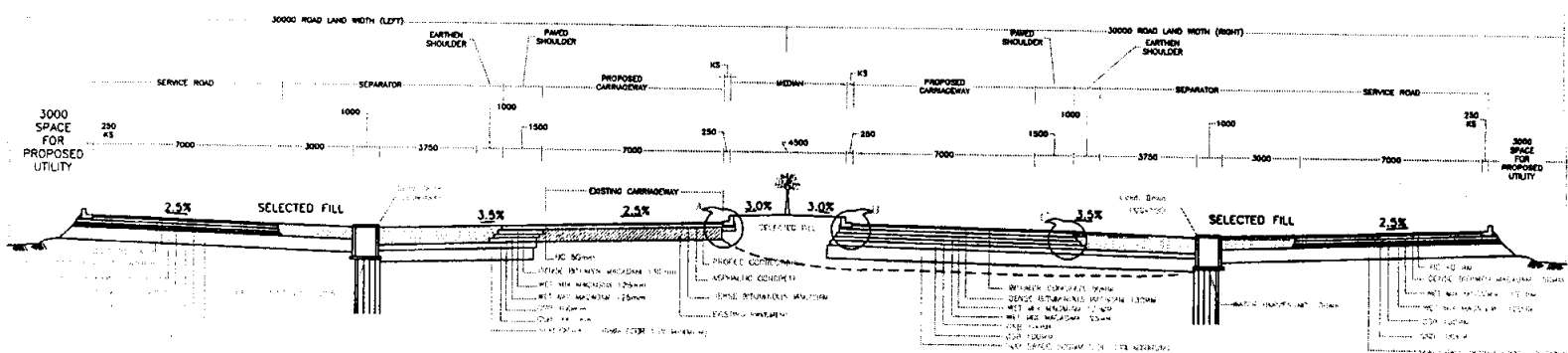


Table: Locations of TCS-1 along the Project Highway

S.No.	From (Design Ch.)	To (Design Ch.)	Applicable Proposed CS	Actual Length of Road
1	547400	547975	TCS-1	575
2	551000	551550	TCS-1	550
3	553500	555900	TCS-1	2400
4	566725	572200	TCS-1	5475
5	575225	578250	TCS-1	3025
6	581300	582450	TCS-1	1150
7	584325	589250	TCS-1	4925
8	594725	596750	TCS-1	2025

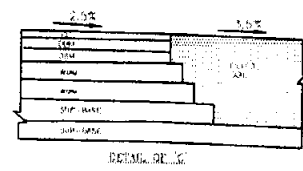
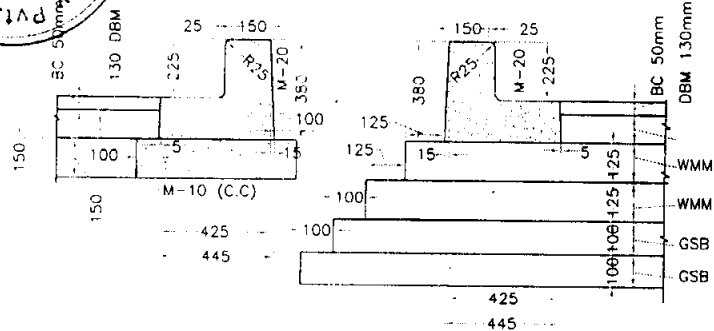


VERTICAL CROSS SECTION WITH SERVICE ROAD IN RURAL AREA
(EXISTING VERTICAL CURVE)
(MODIFIED PROFILE)

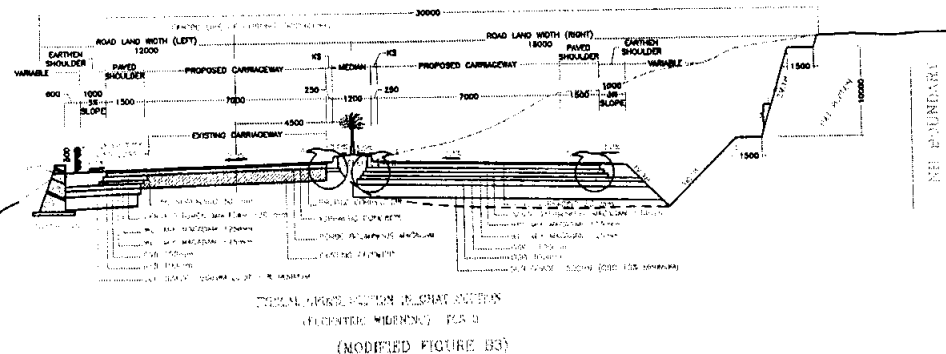
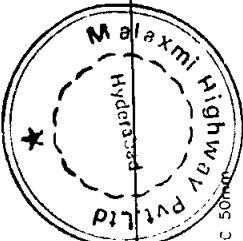
Table: Locations of TCS-2 along the Project Highway

S.No.	From (Design Ch.)	To (Design Ch.)	Applicable Proposed CS	Actual Length of Road
1	550975	551000	TCS-2	25
2	582450	583300	TCS-2	850
3	589250	589675	TCS-2	425

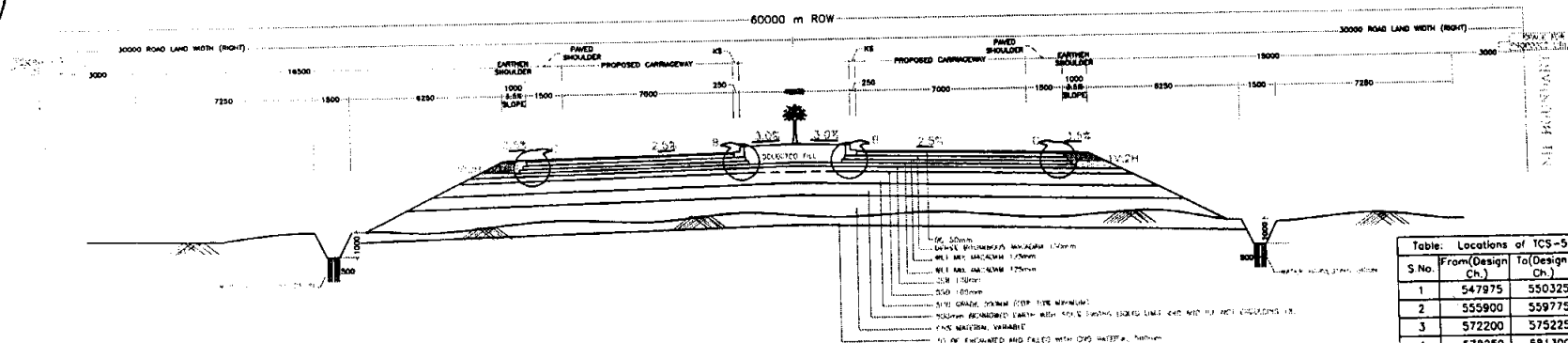
- NOTE:-
- ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED
 - GRAVELLY SUBGRADE FOR C&G
 - RAILS SLOPES OF CORRESPONDING SHALL BE 1:1 & 1:2 FOR HEIGHT OF > 1m. HEIGHT UP TO 1.5m AND 1:1 & 1:2 FOR HEIGHT OF > 1.5m.
 - METAL CRASH BARRIERS FOR CORRESPONDING APPROX. 200m.
 - APPROACH TO BRIDGES AND ON CURVES WITH PROPER SUPPORTS ARE TO BE PROVIDED
 - KERB SHALL REST ON PAV./ M-10 CONCRETE AND CONSTRUCTED BEFORE LAYING SUBGRADE LAYERS.
 - P- THICKNESS OF CORRESPONDING LAYER
 - ECT- EXISTING CRUST TOP
 - ECB- EXISTING CRUST BOTTOM
 - POC- PROFILE CORRECTING COURSE.
 - KS- KERB THICKNESS OF 250 mm IS IN ADDITION TO 75 mm WIDE CARRIAGEWAY.



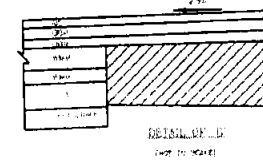
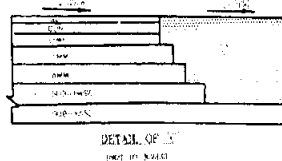
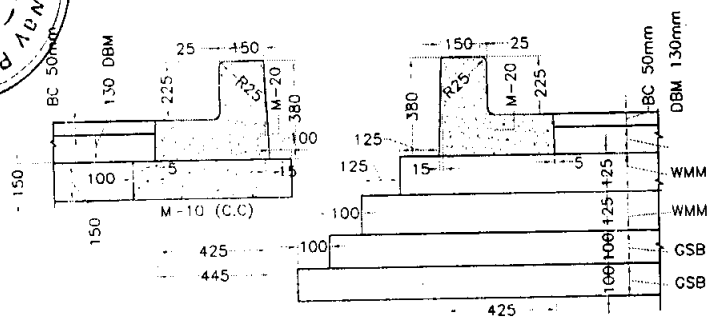
NOTE:- MOR&TH CIRCULAR NO. RW/NH-3022/4/92-DO-III
DATED:-29 JUNE 1992
DRAWING NO.-TFC & TV/185/DEC



S.No.	From(Design Ch.)	To(Design Ch.)	Applicable Proposed CS	Actual Length of Road
1	551550	553500	TCS-3	1950
2	559875	562700	TCS-3	2825

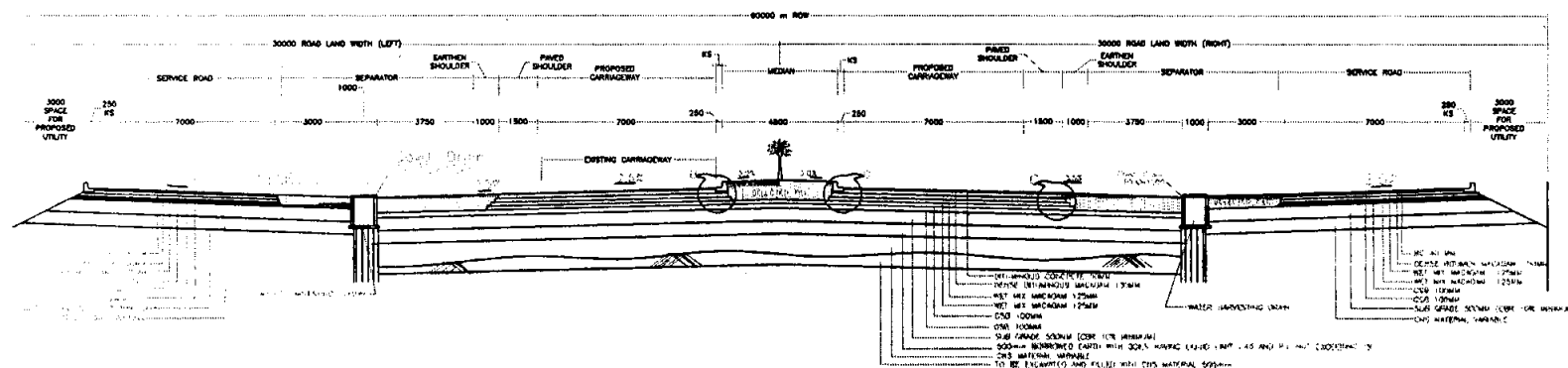
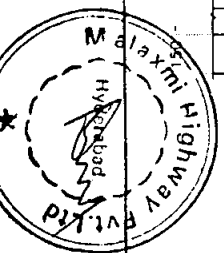


S.No.	From(Design Ch.)	To(Design Ch.)	Applicable Proposed CS	Actual Length of Road
1	547975	550325	TCS-5	2350
2	555900	559775	TCS-5	3875
3	572200	575225	TCS-5	3025
4	578250	581300	TCS-5	3050
5	583550	584325	TCS-5	775
6	589750	594725	TCS-5	4975



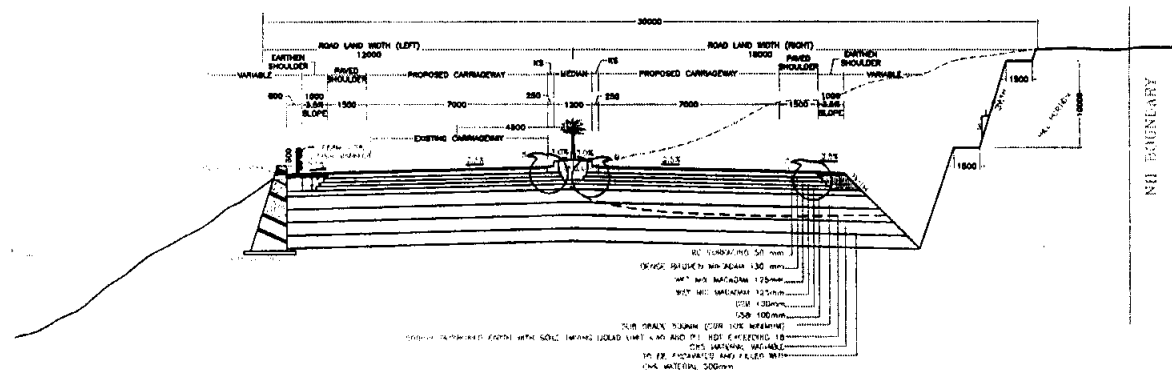
NOTES:

1. ALL DIMENSIONS ARE IN INCH UNLESS OTHERWISE SPECIFIED
2. GRANULAR FILLER SHALL CONFORM TO
3. SIDE SLOPES OF EMBANKMENT SHALL BE 1 V : 3 H FOR HEIGHT UP TO 8.0 METERS AND 1 V : 3 H FOR HEIGHT OF 8.0 METERS TO 12.0 METERS
4. METAL CHAIN BARRIERS FOR EMBANKMENT ABOVE 12.0 METERS SHOULD APPROACH TO REDUCE AND OF CURVES WITH PROPER SUPPORTS ARE TO BE PROVIDED.
5. KERB SHALL REST ON PAVEMENT OR 150 MM CONCRETE AND CONSTRUCTED BEFORE LAYING INTERDRAINING LAYERS
6. REQUIREMENTS OF CONTEMPORARY LAYERS
7. ECT - EXISTING CRUST TOP
8. ECT - EXISTING CRUST BOTTOM
9. PCC - PROFILE CORRECTING COURSE
10. KERB HEIGHT OF 800 MM IS IN ADDITION TO 750 MM CURBWAY.
11. CURB CORRECTING FOR SPALLING (MATTI-1875) INTERCEPTING LAYER CONCEPT IS BASED ON SELF INSULATING PRESIDENT CONCEPT WITH A DIFFERENCE THAT LATER MATERIALS PRESIDENT CONCEPT ARE NOT EXPANDING IN NATURAL.



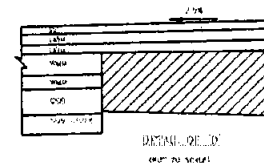
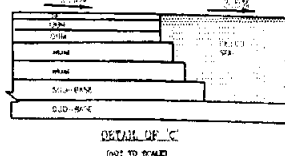
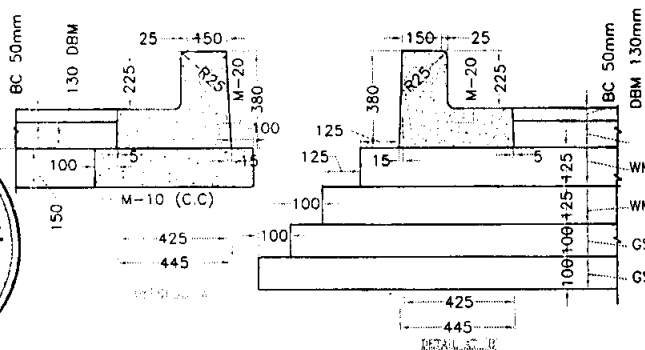
TYPICAL CROSS SECTION FOR BLACK COTTON SOIL AREA (BUILT UP AREA)

(MODIFIED FIGURE B6)



TYPICAL CROSS SECTION FOR BLACK COTTON SOIL AREA (GRAY SECTION)

TCS ?
(MODIFIED FIGURE B?)



S.No.	From (Design Ch.)	To (Design Ch.)	Applicable Proposed CS	Actual Length of Road
1	550325	550975	TCS-6	650
2	566300	568725	TCS-6	425
3	583300	583550	TCS-6	250
4	589675	589750	TCS-6	75

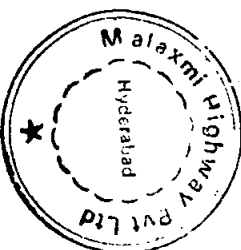
S.No.	From (Design Ch.)	To (Design Ch.)	Applicable Proposed CS	Actual Length of Road
1	598775	599875	TCS-7	100
2	582700	585300	TCS-7	3600

- NOTES:
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED
 2. GRAVELLY SUBGRADE NOT ON C&P
 3. RISE SLOPE OF SUBGRADE SHALL BE 1 V. 8 H FOR HEIGHT UP TO 8.0 mm. AND 1 V. 8 H FOR HEIGHT UP TO 3 m.
 4. RAIL GULLY BARRIERS FOR ENLIGHTENED SIGHT ON THE RIGHT APPROACH TO BRIDGE AND ON CURVES WITH PROPER SUPPORTS ARE TO BE PROVIDED.
 5. KEES SHALL REST OF W/M- M- IS CONCRETE AND CONSTRUCTED BEFORE LAYING BITUMINOUS LAYERS.
 6. P- THICKNESS OF CORRESPONDING LAYER
 7. SCT- EXISTING CRUST TOP
 8. ECB- EXISTING CRUST BOTTOM
 9. PCC- PROFILE CORRECTING COURSE
 10. K2- K2ED BENCHING OF 300 mm IS IN ADDITION TO 7 m ONE CIRCUMFERENCE.
 11. ORS (CONCRETE NOT BASED) (GATE-1976) INTERCEPTING ALTERNATELY (NOT ALLOWED) SELF SUSTAINING PROPOSED CONCRETE WITH A DIFFERENCE THAT CLAY MINERALS PRESENT IN SOIL ARE NOT EXPANSION IN NATURE.

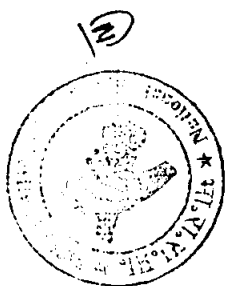
**Additional AMENDMENT TO THE BID DOCUMENTS FOR 7 PACKAGES UNDER BOT(ANNUITY) IN THE STATES OF MADHYA PRADESH AND
UTTAR PRADESH**

Sub: RFP Part-IV

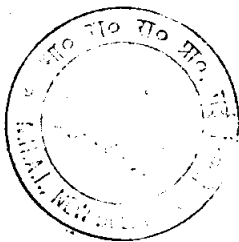
Sl.no.	Package No.	Relevant Clause of RFP	As in issued document	Revised/Modified to
1.	NS-1/BOT/UP-1	Clause 3 of Schedule-C of RFP Part-IV relating to "Pedestrian / Cattle Crossing facilities"	"Cattle / Pedestrian Underpasses for the provision of daylight"	Clause 3 of Schedule-C is to be read as "Vehicular 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



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"



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)

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

Phone : 01-11-25074100/250742

Fax : 01-11-26093507/250935

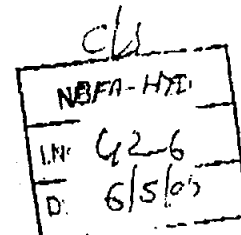
Extn. : 2223/2318/2468/251

NHAI/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/NS-I/2006/104

Date: 29-04-2006

To

M/s Nava Bharat Ferro Alloys Ltd.,
6-3-1109/1, Rajbhavan Road,
Hyderabad - 500 082.
Phone No.040-23403501, 23402064
Fax No.040-23403013



Kind Attn.: Sh.P.Trivikrama Prasad, Executive Directors

Sub:- Design, Construction, Development, Finance, Operation and Maintenance of Km. 547.400 to Km. 596.750 on National Highway No. 7 (NH-7) in the State of Madhya Pradesh under North-South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis- Package No. NS-1/BOT/MP-2 - Letter of Acceptance (LOA)-Reg

Sir,

This is to notify that your Proposal submitted on 16th March 2006, for Design, Construction, Development, Finance, Operation and Maintenance of the work of Rehabilitation and Upgradation from Km. 547.400 to Km. 596.750 on National Highway No. 7 (NH-7) in the State of Madhya Pradesh under North-South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis for a semi annual annuity amount of Rs 22.42 Crores(Rupees Twenty Two Crores forty two lakhs only) is hereby accepted by NHAI 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

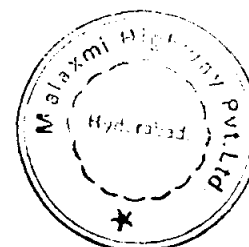
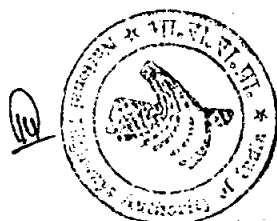
4. Default in furnishing Performance Security and/or signing of Concession Agreement within the period as stated above will entail forfeiture of Bid Security as stated in Clause 1.14.5 and 1.37 of RFP Part-I.

Please acknowledge receipt of this letter.

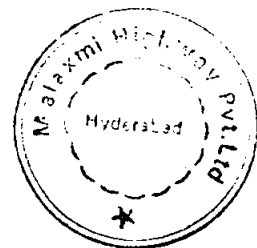
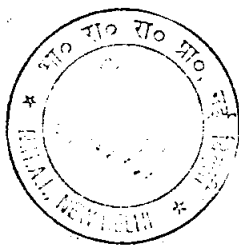
Yours faithfully,

(D.K. Sharma)

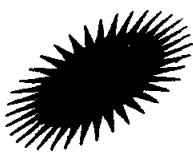
Dy. G.M. (N-II)



RECEIPT OF LOA



[Handwritten signature]



NAVA BHARAT FERRO ALLOYS LIMITED

"NAVA BHARAT CHAMBERS", RAJ BHAVAN ROAD, HYDERABAD-500 082. A.P. INDIA.

NBFA

Our Ref.:NBFA/NHAI:0134:2006

Monday, May 08, 2006

Shri. D. K. Sharma

Dy. General Manager (N-II)
National Highways Authority of India
G 5 & 6, Sector -10, Dwaraka
New Delhi - 110 045

Phone # 011 - 25074100

Fax # 011 - 25093513

Sub.: **Package No.NS-1/BOT/MP-2 on BOT (Annuity) basis in respect of the North South Corridor (NHDP Phase-II) - Letter of Acceptance - Reg.**

Ref.: Your letter # NHAI/PH-II/NHDP/BOT(ANNUITY)/GM(N-II)/NS-I/2006/104 dated 29th April 2006 received on 06th May 2006.

Dear Sir,

We thank you for issuing Letter of Acceptance (LoA) and declaring us as 'the successful bidder' for the above captioned project. We hereby confirm the receipt of letter of acceptance issued by your goodself.

We are pleased to inform you that we are proceeding to arrange for Performance Security in the form of an Unconditional Bank Guarantee as per the RFP conditions.

We assure you of our best services at all times.

Thanking you with regards

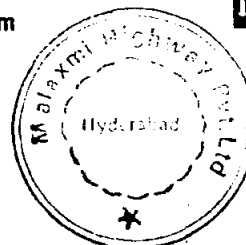
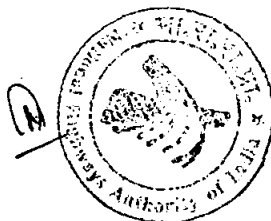
Very Truly Yours

For **NAVA BHARAT FERRO ALLOYS LIMITED**

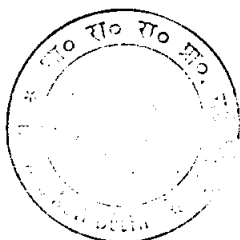
**P. TRIVIKRAMA PRASAD
EXECUTIVE DIRECTOR**

Telephone : (040) 23402064, 23403501, 23403540, Fax : (040) 23403013
E-mail : nabfal@nettilnx.com nbfa@sify.com Website : www.nbfal.com

ISO 9001 ISO 14001



FORMATION OF SPV AND CERTIFICATE OF INCORPORATION





NAVA BHARAT FERRO ALLOYS LIMITED

"NAVA BHARAT CHAMBERS", RAJ BHAVAN ROAD, HYDERABAD-500 082. A.P. INDIA.

NBFA

Ref. No.NBFA/NHAI:0192:2006

June 14, 2006

National Highways Authority of India

G-5 & 6, Sector-10, Dwaraka

NEW DELHI - 110 045

Phone # 011-25074100

Fax # 011-25093513

Kind Attn: Shri P.Ravinder Rao, General Manager (N-II)

Sub: Design, Construction, Development, Finance, Operation and Maintenance of Km. 547.400 to Km. 596.750 on National Highway No.7 (NH-7) in the State of Madhya Pradesh under North-South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis - Package No.NS-1/BOT/MP-2- Submission of SPV as the Concessionaire - Reg.

Dear Sir,

We are pleased to inform you that, in compliance with the provisions of the RFP document and the Concession Agreement (CA), we have incorporated M/s Malaxmi Highway Private Limited as a Special Purpose Vehicle (SPV) Company for undertaking design, finance, development, operations and maintenance of the captioned project. A copy of the Certificate of Incorporation of the same from Registrar of Companies is enclosed herewith for your kind perusal.

We have also submitted a copy of draft Memorandum and Articles of Association of the SPV vide our letter No.NBFA/NHAI:0135:2006 dated 09.05.2006. We request you to kindly approve the same.

Pursuant to the Clause 1.37.1, RFP Part-1 as a condition to be satisfied prior to the execution of the CA, we have already submitted the Performance Security for an amount of Rs.13,15,85,000/- (5% of TPC) vide our letter No.NBFA/NHAI:0174:2006 dated 03.06.2006. Hence, we would like to request you to kindly return our Bank Guarantee submitted against the Bid Security at the earliest.

We would like to bring to your kind notice that, in accordance with Clause 1.36.1 of RFP Part-I, we should execute the Concession Agreement within 45 days of receipt of LOA. We would like to request you to kindly intimate us your convenient date to sign the Concession Agreement. We would also request you to kindly inform us other formalities, if any, to be fulfilled by us before signing the Concession Agreement.

As we will be executing the Concession Agreement and subsequently approaching lenders for achieving Financial Close, we would like to request you to kindly provide us with the status of various statutory and other approvals and land acquisition for RoW received/to be received in connection with the project.

We look forward to your earliest response on the above please.

Thanking you and assuring of our best services at all times.

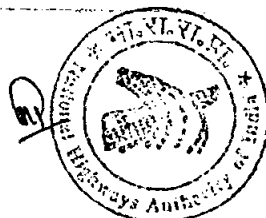
Very truly yours,
for NAVA BHARAT FERRO ALLOYS LIMITED

**P.TRIVIKRAMA PRASAD
EXECUTIVE DIRECTOR**

Encl: a/a

Telephone : (040) 23402064, 23403501, 23403540, Fax : (040) 23403013
E-mail : nabfal@nettilinx.com nbfa@sify.com Website : www.nbfal.com

ISO 9001 ISO 14001



366



सत्यमेव जयते

Form 1

Certificate of Incorporation

Corporate Identity Number : U45203AP2006PTC050284

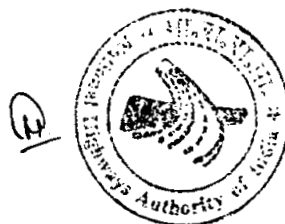
2006 - 2007

I hereby certify that MALAXMI HIGHWAY PRIVATE LIMITED is this day incorporated under the Companies Act, 1956 (No. 1 of 1956) and that the company is limited.

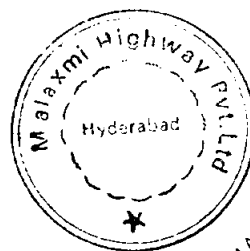
Given under my hand at Hyderabad this NINETH day of JUNE TWO THOUSAND SIX.



(D. Vipra Bhaskar)
Dy. Registrar of Companies
Andhra Pradesh



**LETTER REGARDING SUBMISSION
OF DOCUMENTS REQUIRED FOR
SIGNING OF CONCESSION
AGREEMENT**



[Handwritten signature]



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/NHDP/PH-11/BOT(Annuity)/GM(N-2)/ MP-2/NS-1/2006 /382

22-06-2006

Nava Bharat Ferro Alloys Ltd.,
6-3-1109/1, Rajbhavan Road,
Hyderabad – 500 082.
Phone No.040-23403501, 23402064
Fax No.040-23403013

NEFA-HYD	
I.No.:	10/6
Dt.:	29/6/06

Kind Attn.: Sh.P.Trivikrama Prasad, Executive Director

Sub : Design, Construction, Development, Finance, Operation and Maintenance of Km. 547.400 to Km. 596.750 on National Highway No. 7 (NH-7) in the State of Madhya Pradesh under North South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis – Package No. NS-1/BOT/MP-2

Sir,

Please refer to your letter no. NBFA/NHA:0174:2006 dated 03rd June , 2006 thereby submitting a Bank Guarantee issued by the State Bank of India, Industrial Finance Branch, Raj Bhawan Road, Hyderabad towards Performance Security amounting to Rs.13,15,85,000/- only and your letter dated 14-06-2006 thereby requesting NHA to convey about other formalities if any to be fulfilled by the firm before signing of the Concession Agreement. Following observations needs to be complied before signing of the Concession Agreement :-

(A). It is necessary to either submit a fresh Performance Security (issued on behalf of the SPV) which should be as per Schedule-F of RFP Part-III or submit an amendment to the Performance security submitted earlier so that it is as per Schedule-F of RFP Part-III and the same should be on behalf of the SPV.

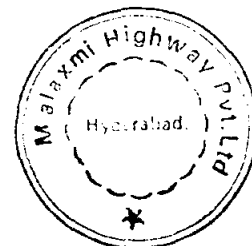
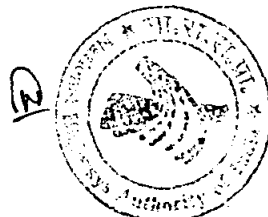
(B) The following documents needs to be submitted before the signing of the Agreement .

1. Certificate of Commencement of Business. (From Registrar of Companies)
2. Board Resolution of 'SPV' regarding authorization of personnel for signing of Concession Agreement.
3. Certificate from M/s Nava Bharat Ferro Alloys Limited authorizing the investment in 'SPV'.
4. Register of Members of SPV.
5. Certified list of Directors of SPV.

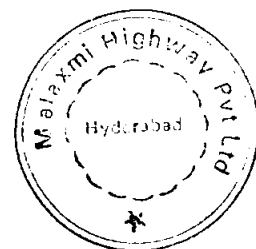
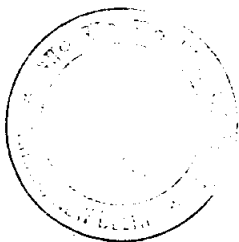
Compliance to the above mentioned observations may be sent at the earliest.

Yours faithfully,

(P.Ravindra Rao)
General Manager(N-II)



**SUBMISSION OF COMPLIANCE
LIST, MEMORANDUM OF
ASSOCIATION AND OTHER
SUBMISSIONS BY SPV / NBFA**





NBFA

NAVA BHARAT FERRO ALLOYS LIMITED

"NAVA BHARAT CHAMBERS", RAJ BHAVAN ROAD, HYDERABAD-500 082. A.P. INDIA.

Ref. No.NBFA/NHAI:0227:2006

July 11, 2006

National Highways Authority of India
G-5 & 6, Sector-10, Dwarka
NEW DELHI - 110 045

Phone # 011-25074100
Fax # 011-25093513

Kind Attn: Shri P.Ravinder Rao, General Manager (N-II)

Sub: *Design, Construction, Development, Finance, Operation and Maintenance of Km. 547.400 to Km. 596.750 on National Highway No.7 (NH-7) in the State of Madhya Pradesh under North-South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis - Package No.NS-1/BOT/MP-2- Compliance List by SPV for Signing the Concession Agreement - Reg.*

Ref:

1. Your Letter No. NHAI-NHDP/PH-II/BOT (Annuity)/GM(N-2)/MP-2/NS-1/2006, dated 22nd June 2006.
2. Our Letter No. NBFA/NHAI:0192:2006, dated 14th June, 2006
3. Our Letter No. NBFA/NHAI:0226:2006, dated 30th June, 2006

Dear Sir,

We refer to the above-cited letters on the subject under reference.

As advised by you, in order to execute the concession Agreement between Malaxmi Highway Pvt Ltd (the "SPV" Company/Concessionaire) and NHAI, we are pleased to submit herewith following documents for your kind perusal and records:

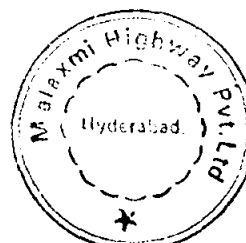
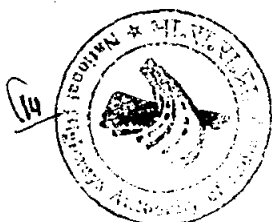
1. Performance Security as per the Schedule-F of RFP Part-III on behalf of the "SPV" Company;
2. Memorandum/Articles of Association of the "SPV" Company;
3. Certification of Incorporation of the "SPV" Company from RoC;
4. Board Resolution authorizing Mr. D. Suresh for signing the Concession Agreement on behalf of the "SPV" Company;
5. Copy of Register of Members of the "SPV" Company;
6. Certified List of Board of Directors;
7. Certification from M/s Nava Bharat Ferro Alloys Limited (NBFA) authorizing investment in the "SPV" Company;
8. Certification from Company Secretary on investment of NBFA and Kinnera Power Company Limited (An existing NBFA's Associate Company) in the "SPV" Company.
9. Copy of Balance Sheet of NBFA establishing M/s Kinnera Power Company Ltd as its Associate.

Since the "SPV" Company has been registered as a Private Limited Company, as per the provisions of Companies Act 1956, the date of Incorporation of the Company itself will be considered as date of commencement of the business, hence the certificate of commencement of business to this effect may be redundant.

Contd. 2

Telephone : (040) 23402064, 23403501, 23403540, Fax : (040) 23403013
E-mail : nabfal@nettlinx.com nbfa@sify.com Website : www.nbfal.com

ISO 9001 ISO 14001




:: 2 ::

We request you to kindly review the above enclosed documents and inform us the date for signing of the Concession Agreement.

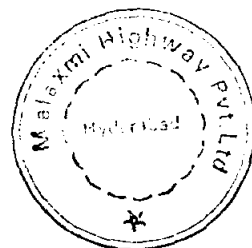
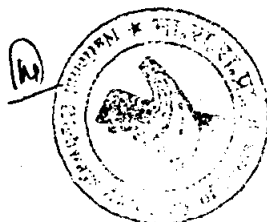
We also request you to kindly return the Bank Guarantees submitted earlier towards Performance Security and Bid Security in connection with the captioned project at the earliest.

Thanking you and assuring of our best services at all times.

Very truly yours,
for NAVA BHARAT FERRO ALLOYS LIMITED


P. TRIVIKRAMA PRASAD
EXECUTIVE DIRECTOR

Encl: As mentioned above





State Bank of Hyderabad
INDUSTRIAL FINANCE BRANCH
HYDERABAD - Code - 703

Stamp

BRANCH

*National Highways Authority
of India*

No. BG/A 090508

*Plot no. G-546, Sector-10, Okhla
New Delhi - 110075*

Dear Sirs,

Guarantee No. 8520
Amount of Guarantee Rs. 5,26,34,000
Guarantee cover from 11-07-06 to 10-07-2007
Last date for lodgement of claim 10-07-2007

This Deed of Guarantee executed by the State Bank of Hyderabad constituted under the State Bank of India (Subsidiary Banks) Act, 1959 having its Head Office at Gunfoundry, Hyderabad, and amongst other places, a Branch at HYDERABAD - Code - 703

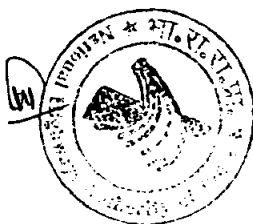
(hereinafter referred to as 'the Bank') in favour of *National Highways Authority of India, New Delhi - 110075*

(hereinafter referred to as 'the Beneficiary') for an amount not exceeding Rs. 5,26,34,000-
Rupees *Five lakh three thousand four hundred and thirty four*
at the request of *Malaxmi Highway Pvt. Ltd., Hyd.*
(hereinafter referred to as 'the Contractor/s').

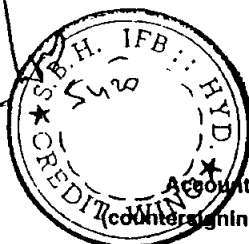
This Guarantee is issued subject to the condition that the liability of the Bank under this Guarantee is limited to a maximum of Rs. 5,26,34,000-
Five lakh three thousand four hundred and thirty four (Rupees *Five lakh three thousand four hundred and thirty four*) and the Guarantee shall remain in full force upto *10-07-2007*
(Date of Expiry) and cannot be invoked otherwise than by a written demand or claim under this Guarantee served on the Bank on or before the *10-07-2007*
(Last date of claim)

SUBJECT TO AS AFORESAID

(Main Guarantee matter
may be typed hereafter)

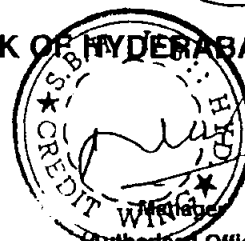


K.V. Subrahmanyan
5420

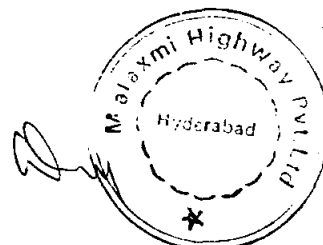


Accountant
(Countersigning Official)

For STATE BANK OF HYDERABAD



(Authorized Official)
N. Silva Prasad Heddy
CC No. 7547





आन्ध्र प्रदेश ANDHRA PRADESH

No. 27527 Date 10.10.2006 Rs. 100/-
PURCHASER P. Rama Krishna s/o Ganga Raju R/o Hyderabad
OR WHOM Malaxmi Highway (P) Ltd.

B 098650

K. ANITHA
Licence No: 56/96 RL. 53,
26/C, Vengalrao Nagar,
HYDERABAD-38. (C):23814

From
STATE BANK OF HYDERABAD
Industrial Finance Branch, Panjagutta
Hyderabad - 500 082.

To
National Highways Authority of India,
(Ministry of Shipping, Road Transport and Highways)
Plot No.G-5 & 6, Sector - 10,
New Delhi - 1100 075

Dear Sir,

Guarantee No: 8520
Amount of Guarantee: Rs. 5,26,34,000/-
Guarantee cover from : 11.07.06 to 10.07.07
Last date of lodgment of claim : 10.07.07

THIS DEED OF BANK GUARANTEE executed at Hyderabad on this 11th day of July, 2006 by State Bank of Hyderabad, a corporation constituted under State Bank of India (subsidiary bank) Act No.38/1959 and having its registered Office at Gunfoundry,



K.V. Subrahmanya
5420



N. Siva Prasad Reddy
7547

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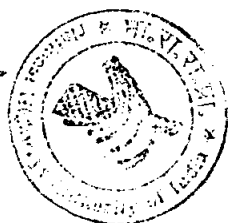
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Hyderabad and amongst other places, a Branch at Industrial Finance Branch, Panjagutta, Hyderabad – 500 082 (hereinafter referred to as “THE BANK”) in favour of National Highways Authority of India, (Ministry of Shipping, Road Transport and Highways), Plot No. G-5 & 6, Sector – 10, New Delhi – 1100 075 (hereinafter referred to as “NHAI”) for an amount not exceeding Rs. 5,26,34,000/- (Indian Rupees Five Crores Twenty Six Lakhs and Thirty four thousands only) (the guaranteed sum) at the request of **MALAXMI HIGHWAY PRIVATE LIMITED**, Hyderabad (hereinafter referred to as “Concessionaire”).

- a. NHAI vide Letter No. NHAI/PH-II/NHDP/BOT/(ANNUTY)/GM(N-II)NS-I/2006/104 dated 29.04.06 has issued letter of acceptance (LOA) to the M/s Nava Bharat Ferro Alloys Limited, Nava Bharat Chambers, H No.6-3-1109/1, Raj Bhavan Road, Somajiguda, Hyderabad – 500 082 to Design, Construction, Development, Finance, Operation and Maintenance of Km 547.400 to Km 596.750 on National Highway No.7 (NH-7) called the Project in the State of Madhya Pradesh under North-South Corridor (NHDP Phase – III) on BOT (Annuity) basis (the “Project”).
- b. M/s Nava Bharat Ferro Alloys Limited, has Promoted and incorporated a Special Purpose Vehicle (SPV) in the form of a limited liability company named as **MALAXMI HIGHWAY PRIVATE LIMITED**, (the “Concessionaire”) having its registered office in the state of Andhra Pradesh, to enter into a Concession Agreement for undertaking, inter alia, the Project and to perform and discharge all its obligations thereunder.
- 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. 5,26,34,000/- (Indian Rupees Five Crores Twenty Six Lakhs and Thirty four thousands only) as security for compliance with its obligations under the Concession Agreement during the Construction Period.
- d. The Guarantor (THE BANK) has agreed to give NHAI the abovementioned guarantee on the terms set out herein.

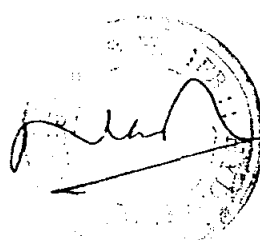
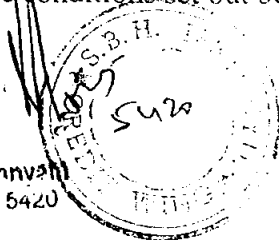
NOW THEREFORE THIS GUARANTEE WITNESSETH AS FOLLOWS:

We, State Bank of Hyderabad, Industrial Finance Branch, Panjagutta, Hyderabad – 500 082 (the “Guarantor”) with its registered office at Gunfoundry, Hyderabad, unconditionally guarantee to pay NHAI upon first written demand and without any deduction any sum claimed by NHAI up to a maximum of Rs. 5,26,34,000/- (Indian Rupees Five Crores Twenty Six Lakhs and Thirty four thousands only) (the “Guaranteed Sum”) subject to the conditions set out below.

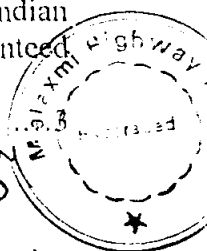


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K.V. Subrahmanyam
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N. Silva Prasad Reddy
SS No. 7547

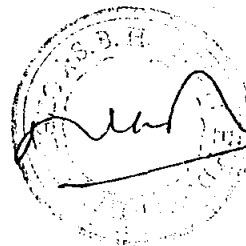


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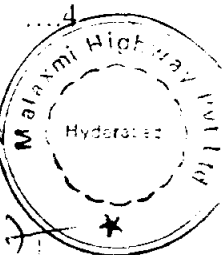
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1. THE BANK unconditionally and irrevocably promises to pay on demand the Guaranteed Sum , without protest or demur whatsoever upon the receipt of a written demand from NHAI, which shall be final and conclusive as against THE BANK requiring THE BANK to make the payment to NHAI.
2. THE BANK waives any requirement that NHAI demand any debt or payment from the Concessionaire before presenting it with a demand under this Guarantee.
3. NHAI shall notify THE BANK 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 BANK.
4. Upon encashment and appropriation of the whole or any portion of the Guaranteed Sum by NHAI in accordance with the Concession Agreement, THE BANK 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.
5. No underlying dispute as between NHAI and the Concessionaire nor any pending application for interim relief or arbitration proceedings or to other legal proceedings shall constitute any ground for prevention, delay or obstruction for making payment to NHAI by THE BANK and the existence of any disputes or differences or claims in arbitration or otherwise shall not constitute any ground for nonpayment on this Guarantee.
6. This guarantee is valid and effective from its date. This guarantee and THE BANK's obligations under it will terminate on the Commercial Operations Date of the Project as advised to THE BANK 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.

K.V. Subrahmanyan
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N. Siva Prasad Reddy
SS No. 7547



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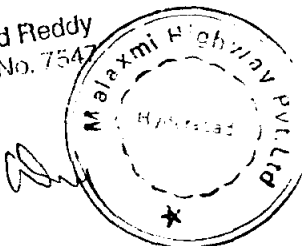
7. THE BANK agrees that its obligation to pay any demand made by NHAI before the termination of this Guarantee will continue until the amount demanded has been paid in full.
8. This Guarantee shall be valid and effective up to 10.07.2007 for enabling NHAI to lodge a claim for payment under the Guarantee till the date of expiry of the term of the Guarantee. THE BANK shall be obligated to make payment upon the Guarantee forthwith on demand, if the claim is lodged within the claim validity period (i.e. 10.07.2007) 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 in terms of this Bank Guarantee, THE BANK shall be obligated to pay compound interest at .2% above the prime lending rate of THE BANK, compounding quarterly in the event of THE BANK'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.
9. No change in the constitution of the Concessionaire or of THE BANK 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 agreement, discharge THE BANK. THE BANK shall notwithstanding such change, be bound to make payment upon the Guarantee on demand.
10. THE BANK 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.
11. THE BANK 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 BANK and the assignee assumes in writing the obligations of THE BANK under this Guarantee at the same time or before the assignment.

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K.V. Subrahmanvram
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N. Siva Prasad Reddy
SS No. 7547



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12. This Guarantee binds THE BANK, its successors and permitted assigns.

NOTWITHSTANDING any thing contained herein:

- a) Our liability under this guarantee is restricted to Rs. 5,26,34,000/- (Indian Rupees Five Crores Twenty Six Lakhs and Thirty four thousands only).
- b) This guarantee shall be valid up to 10th day of July 2007.
- c) We are liable to pay the guaranteed amount or any part thereof under this guarantee only when you serve upon us a written claim or demand on or before 10.07.2007 and;
- d) Unless a demand or claim under this guarantee is made on the surety in writing on or before 10.07.2007, We shall be discharged from all liabilities under this guarantee thereafter and all rights of the NHAI under this guarantee shall be forfeited.

In WITNESS WHEREOF the authorized signatory of THE BANK has set his hands on the date, month and year written herein above.

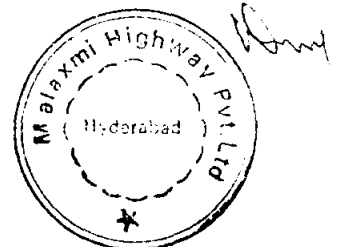
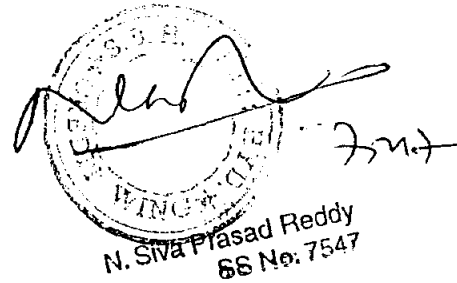
Signed and delivered
On behalf of State Bank of Hyderabad
By the hand of Mr.

K.V. Subrahmaniam
6470



Designation:

N. Siva Prasad Reddy
SS No. 7547





State Bank of Hyderabad

INDUSTRIAL FINANCE BRANCH
HYDERABAD - Code - 703

BRANCH

Stamp

National Highways Authority
of India
Plot No. G-566, Sector 10, Okhla
New Delhi - 110075

No. BG/A 090509

Dear Sirs,

Guarantee No. <i>8521</i>
Amount of Guarantee Rs. <i>7,89,51,000</i>
Guarantee cover from <i>11-10-06</i> to <i>10-10-2009</i>
Last date for lodgement of claim <i>10-10-2009</i>

This Deed of Guarantee executed by the State Bank of Hyderabad constituted under the State Bank of India (Subsidiary Banks) Act, 1959 having its Head Office at Gunfoundry, Hyderabad, and amongst other places, a Branch at INDUSTRIAL FINANCE BRANCH HYDERABAD - Code - 703

(hereinafter referred to as 'the Bank') in favour of *National Highways Authority of India, New Delhi - 110075*.

(hereinafter referred to as 'the Beneficiary') for an amount not exceeding Rs. *7,89,51,000* (Rupees *Seven crore eighty nine lakh fifty one thousand only*) at the request of *Malaxmi Highway Pvt. Ltd., Hyd.*
(hereinafter referred to as 'the Contractor/s').

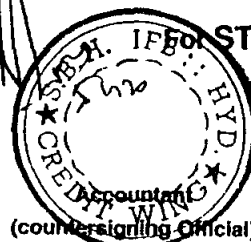
This Guarantee is issued subject to the condition that the liability of the Bank under this Guarantee is limited to a maximum of Rs. *7,89,51,000* (Rupees *Seven crore eighty nine lakh fifty one thousand only*) and the Guarantee shall remain in full force upto *10-10-2009* (Date of Expiry) and cannot be invoked otherwise than by a written demand or claim under this Guarantee served on the Bank on or before the *10-10-2009* (Last date of claim)

SUBJECT TO AS AFORESAID

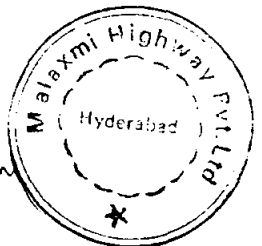
(Main Guarantee matter may be typed hereafter)

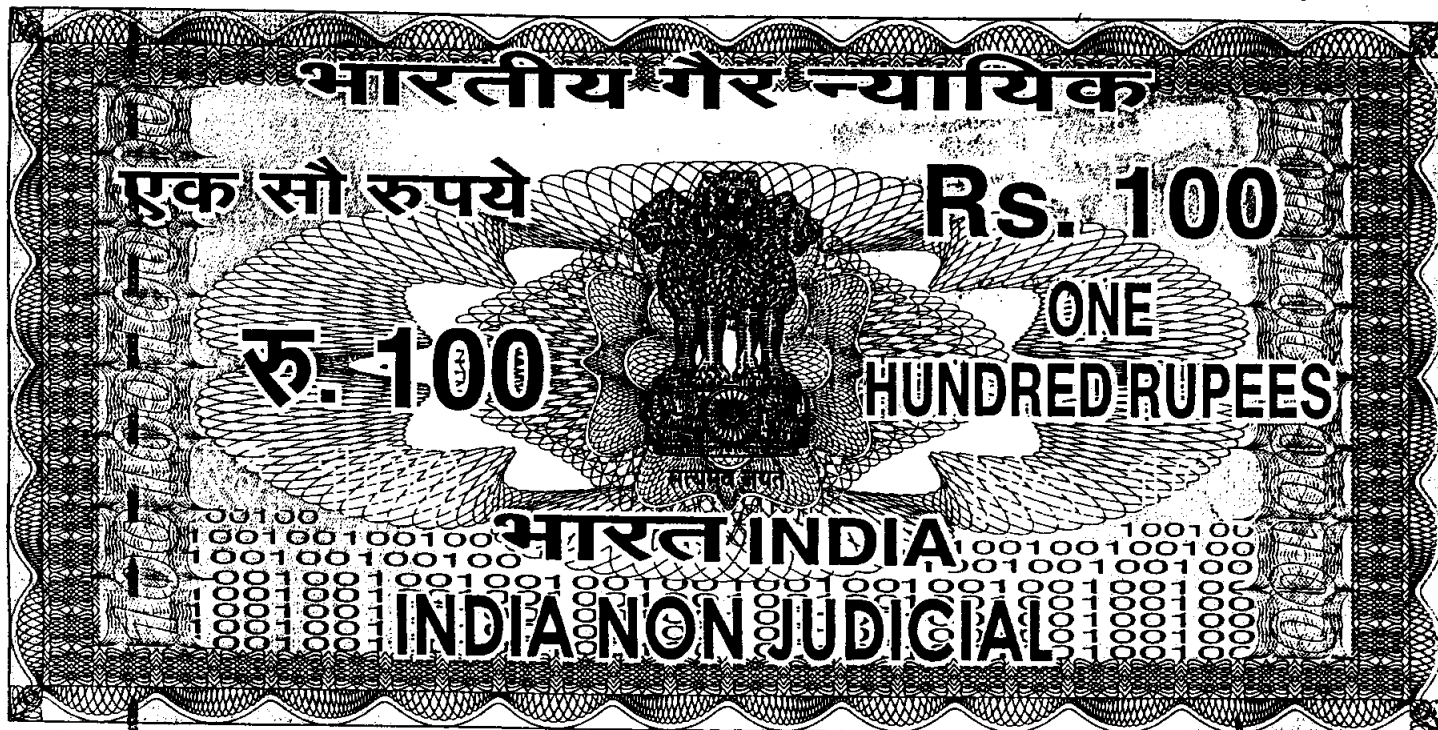


(Signature)

K.V. Subrahmanyam
5420

(countersigning Official)

(Authorised Official)
N. Silva Prasad Reddy
7547



आन्ध्र प्रदेश ANDHRA PRADESH

Sl. No. 24533 Date 10.10.7.2006 Rs. 100/-

PURCHASER P. Rama Krishna s/o Ganga Raju R/o Hyd
FOR WHOM Malaxmi Highway (P) Ltd.

B 098646

K. ANITHA

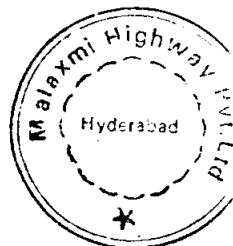
Licence No: 56/96 RL. 53/
26/C, Vengalrao Nagar.
HYDERABAD-38. (C):23814

From
STATE BANK OF HYDERABAD
Industrial Finance Branch, Panjagutta
Hyderabad - 500 082.

To
National Highways Authority of India,
(Ministry of Shipping, Road Transport and Highways)
Plot No.G-5 & 6, Sector - 10,
New Delhi - 1100 075

Dear Sir,

Guarantee No: 8521
Amount of Guarantee: Rs. 7,89,51,000/-
Guarantee cover from : 11.07.06 to 10.10.09
Last date of lodgment of claim : 10.10.09

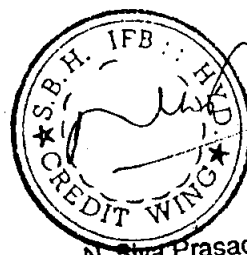
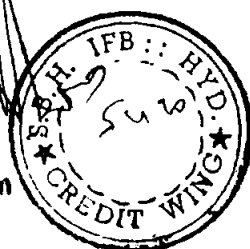


THIS DEED OF BANK GUARANTEE executed at Hyderabad on this 11th day of July, 2006 by State Bank of Hyderabad, a corporation constituted under State Bank of India (subsidiary bank) Act No.38/1959 and having its registered Office at Gunfoundry.

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K.V. Subrahmanyam
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N. Siva Prasad Reddy
SS No. 7647

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Hyderabad and amongst other places, a Branch at Industrial Finance Branch, Panjagutta, Hyderabad – 500 082 (hereinafter referred to as “THE BANK”) in favour of National Highways Authority of India, (Ministry of Shipping, Road Transport and Highways), Plot No. G-5 & 6, Sector – 10, New Delhi – 1100 075 (hereinafter referred to as “NHAI”) for an amount not exceeding Rs. 7,89,51,000/- (Indian Rupees Seven Crores Eighty Nine Lakhs and Fifty one thousands only) (the guaranteed sum) at the request of **MALAXMI HIGHWAY PRIVATE LIMITED**, Hyderabad (hereinafter referred to as “Concessionaire”).

- a. NHAI vide Letter No. NHAI/PH-II/NHDP/BOT/(ANNUTY)/GM(N-II)NS-I/2006/104 dated 29.04.06 has issued letter of acceptance (LOA) to the M/s Nava Bharat Ferro Alloys Limited, Nava Bharat Chambers, H No.6-3-1109/1, Raj Bhavan Road, Somajiguda, Hyderabad – 500 082 to Design, Construction, Development, Finance, Operation and Maintenance of Km 547.400 to Km 596.750 on National Highway No.7 (NH-7) called the Project in the State of Madhya Pradesh under North-South Corridor (NHDP Phase – III) on BOT (Annuity) basis (the “Project”).
- b. M/s Nava Bharat Ferro Alloys Limited, has Promoted and incorporated a Special Purpose Vehicle (SPV) in the form of a limited liability company named as **MALAXMI HIGHWAY PRIVATE LIMITED**, (the “Concessionaire”) having its registered office in the state of Andhra Pradesh, to enter into a Concession Agreement for undertaking, inter alia, the Project and to perform and discharge all its obligations thereunder.
- 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. 7,89,51,000/- (Indian Rupees Seven Crores Eighty Nine Lakhs and Fifty one thousands only) as security for compliance with its obligations under the Concession Agreement during the Construction Period.
- d. The Guarantor has agreed to give NHAI the abovementioned guarantee on the terms set out herein.

NOW THEREFORE THIS GUARANTEE WITNESSETH AS FOLLOWS:

We, State Bank of Hyderabad, Industrial Finance Branch, Panjagutta, Hyderabad – 500 082 (the “Guarantor”) with its registered office at Gunfoundry, Hyderabad unconditionally guarantee to pay NHAI upon first written demand and without any deduction any sum claimed by NHAI up to a maximum of Rs. 7,89,51,000/- (Indian Rupees Seven Crores Eighty Nine Lakhs and Fifty one thousands only) (the “Guaranteed Sum”) subject to the conditions set out below.



K.V. Subrahmanyam
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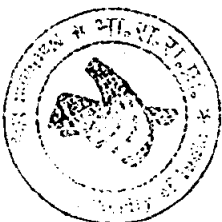
N. Siva Prasad Reddy
SS No. 7547



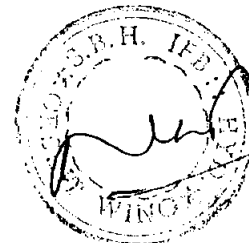
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1. THE BANK unconditionally and irrevocably promises to pay on demand the Guaranteed Sum, without protest or demur whatsoever upon the receipt of a written demand from NHAI, which shall be final and conclusive as against THE BANK requiring THE BANK to make the payment to NHAI.
2. THE BANK waives any requirement that NHAI demand any debt or payment from the Concessionaire before presenting it with a demand under this Guarantee.
3. NHAI shall notify THE BANK 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 BANK.
4. Upon encashment and appropriation of the whole or any portion of the Guaranteed Sum by NHAI in accordance with the Concession Agreement, THE BANK 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.
5. No underlying dispute as between NHAI and the Concessionaire nor any pending application for interim relief or arbitration proceedings or to other legal proceedings shall constitute any ground for prevention, delay or obstruction for making payment to NHAI by THE BANK and the existence of any disputes or differences or claims in arbitration or otherwise shall not constitute any ground for nonpayment on this Guarantee.
6. This guarantee is valid and effective from its date. This guarantee and THE BANK's obligations under it will terminate on the Commercial Operations Date of the Project as advised to THE BANK 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.



K.V. Subrahmanyam
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N. Siva Prasad Reddy
SS No. 7547

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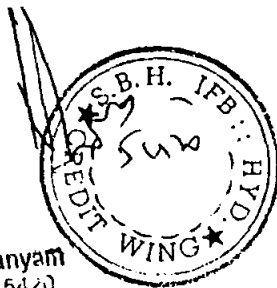


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7. THE BANK agrees that its obligation to pay any demand made by NHAI before the termination of this Guarantee will continue until the amount demanded has been paid in full.
8. This Guarantee shall be valid and effective up to 10.10.2009 for enabling NHAI to lodge a claim for payment under the Guarantee till the date of expiry of the term of the Guarantee. THE BANK shall be obligated to make payment upon the Guarantee forthwith on demand, if the claim is lodged within the claim validity period i.e. 10.10.2009 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 in terms of this Bank Guarantee, THE BANK shall be obligated to pay compound interest at 2% above the prime lending rate of THE BANK, compounding quarterly in the event of THE BANK'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.
9. No change in the constitution of the Concessionaire or of THE BANK 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 agreement, discharge THE BANK. THE BANK shall notwithstanding such change, be bound to make payment upon the Guarantee on demand.
10. THE BANK 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.
11. THE BANK 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 BANK and the assignee assumes in writing the obligations of THE BANK under this Guarantee at the same time or before the assignment.

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K.V. Subrahmanyam
5420N. Siva Prasad Reddy
SS No. 7547

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12. This Guarantee binds THE BANK, its successors and permitted assigns.

NOTWITHSTANDING any thing contained herein:

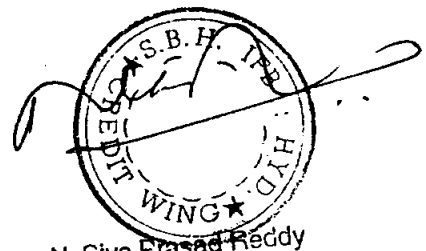
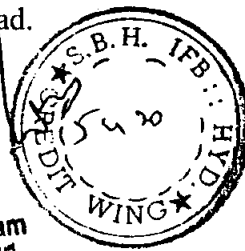
- a) Our liability under this guarantee is restricted to Rs. 7,89,51,000/- (Indian Rupees Seven Crores Eighty Nine Lakhs and Fifty one thousands only).
- b) This guarantee shall be valid up to 10th day of October 2009.
- c) We are liable to pay the guaranteed amount or any part thereof under this guarantee only when you serve upon us a written claim or demand on or before 10.10.2009 and;
- d) Unless a demand or claim under this guarantee is made on the surety in writing on or before 10.10.2009, We shall be discharged from all liabilities under this guarantee thereafter and all rights of the NHAI under this guarantee shall be forfeited.

In WITNESS WHEREOF the authorized signatory of THE BANK has set his hands on the date, month and year written herein above.

Signed and delivered
On behalf of State Bank of Hyderabad.
By the hand of Mr.

Designation:

K.V. Subrahmanyam
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N. Siva Prasad Reddy
SS No. 7547

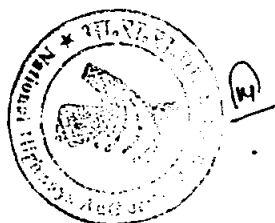


UNDER THE COMPANIES ACT, 1956
(1 OF 1956)
COMPANY LIMITED BY SHARES
MEMORANDUM OF ASSOCIATION
OF
MALAXMI HIGHWAY PRIVATE LIMITED

- I. The name of the Company is **MALAXMI HIGHWAY PRIVATE LIMITED**
- II. The registered office of the Company will be situated in the State of Andhra Pradesh.
- III. The objects for which the Company is established are :-

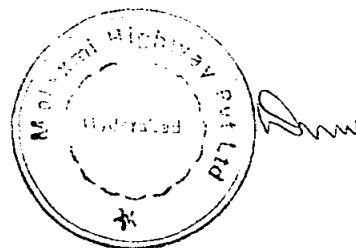
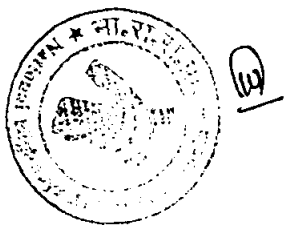
**(A) THE MAIN OBJECTS TO BE PURSUED BY THE COMPANY ON ITS
 INCORPORATION ARE:**

- (1) To design, engineering, financing, procurement, construction, operation and maintenance of the Project Highway for widening the existing 2-lane carriageway to 4-lane divided carriageway facility including rehabilitation of existing 2 lanes from KM 547/400 to KM 596/750 on National Highway No.7 (NH-7) in the State of Madhya Pradesh, India on Build, Operate and Transfer (Annuity) Basis.
- (2) To build, construct, erect, execute, carry out equipment, improve work, develop or administer, maintain, manage or operate or own or control or transfer in India or elsewhere either alone or jointly with others all kinds of infrastructural projects and building projects including civil construction works and conveniences which expression in this Memorandum includes road, road projects, national and international highways, expressways, bridges, railways, urban transportation projects, airports and to negotiate for and obtain from the government, conventions, franchises subsidies, grants, concessions, aids or other assistance in infrastructure of all or any of the above objects.
- (3) To secure, accept the novation, transfer or assignment of and to undertake, implement and carry out the concession granted by the National Highway Authority of India for the design, develop, construct, build, execute, architect, construction, upgrading, improvement, maintenance, and operation of National Highway(s) in India and to design, engineer or obtain, procure, operate and maintain financing facilities, build, construct, manage, maintain, operate, or own or control or transfer the highway projects & facilities contained therein on build operate and transfer basis or otherwise in any means and also to participate in tenders, contracts offered by any Central or State Governments or its agencies.



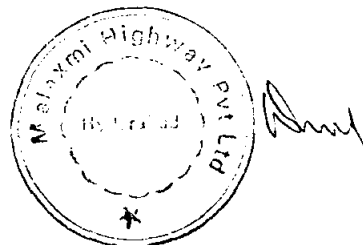
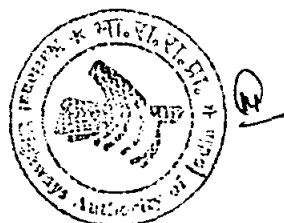
(B) OBJECTS INCIDENTAL OR ANCILARY TO THE ATTAINMENT OF THE MAIN OBJECTS MENTIONED AT (A) ABOVE ARE:

- (1) To enter into technical arrangements, joint ventures, collaboration, technology, transfers for the purpose of attainment of the aforesaid objects.
- (2) To apply for, purchase, or otherwise acquire, or enter into any contracts, agreements, decrees and concessions, for or in relation to engineering, procurement, construction, execution, or for carrying out of machinery, equipment, improvement, management, administration, or control of infrastructure projects, including road projects and highway projects, facilities, and conveniences, and to undertake, execute, carryout, dispose of, or otherwise turn to account the same.
- (3) To act as project managers, technical/management consultants and operation and maintenance contractors for infrastructure projects including power projects, railway projects, highway and expressway projects.
- (4) To construct, erect, commission, toll gates, toll collection points on road projects and highway projects and to own, operate, maintain, lease out, and transfer the same.
- (5) To purchase, take on lease or otherwise acquire freehold and other properties, mines and mineral properties and also grants, concessions, leases, claims, licenses, options or authorities of and over mines, lands, buildings, mineral properties, mining water and other rights and metalliferous land in India or in any part of the world and either / absolutely, optionally or conditionally and either solely or jointly with others.
- (6) To acquire, enter into agreement, enter into partnership or into any arrangement for sharing profits, union of interests, co-operation, joint venture, reciprocal, concession or otherwise with any person or company carrying on or engage in any business or transaction capable of being conducted so as directly or indirectly to benefit the Company and to take or otherwise acquire shares and securities of any such companies and to sell, hold, with or without guarantee such shares or securities.
- (7) To acquire by purchase or otherwise, and to obtain protection for, or to patent in any part of the world any invention or discovery made by any official or servant of the Company or others, and any improvement in machinery or apparatus; to exercise and use such protection or patent, or to disclaim, after or modify the same.
- (8) To invest and deal with the moneys of the Company not immediately required in such manner as may from time to time be determined, and in particular to invest money on the security of land, buildings, estates, plantations, mines, securities and other property, real and personal, movable and immovable, and generally to lend money on, or otherwise acquire mortgages, charges, bonds, obligations, loans, securities, and all other instruments upon such terms and conditions as may seem expedient.
- (9) To amalgamate with any other company whose objects are similar to those of the Company whether by sale or purchase (for shares or otherwise) of the undertaking subject to the liabilities of this or any other company aforesaid with or without winding up or by sale or purchase (for shares or otherwise) of all the shares of this or any such other company as

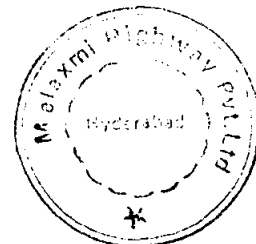
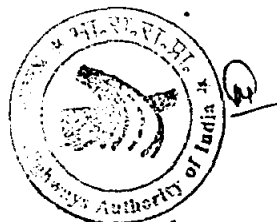


aforesaid or by partnership or any arrangement of the nature of partnership or in any other manner.

- (10) To sell or dispose of the whole or any part of the undertaking and property or any or all of the assets, whether tangible or intangible, of the Company for cash or such other consideration as the Company may think fit and in particular for shares, debentures or securities of any other Company.
 - (11) To purchase or otherwise acquire for investment in lands, houses, buildings, plantations, and immovable property of any tenure or any interest therein, and any movable property of any description or any interest therein, and to create, and deal in freehold and leasehold ground rents. Generally to acquire, deal in, traffic by way of Lease, exchange or otherwise with property of every description, whether immovable or movable, real or personal and whether for valuable consideration or not.
 - (12) To appropriate any part or parts of the property of the Company for the purpose of and to build and let shops, offices and other place of business.
 - (13) To enter into lease agreements and credit sale agreements with the lessees and purchasers of such equipment and goods aforesaid and to negotiate assign lease or pledge such agreements for cash or otherwise of the payments due or otherwise or the payments due or rights accruing there under.
 - (14) To establish, maintain, conduct and acquire or dispose of either as principal or agents, trading posts of all kinds of description throughout the world and in connection therewith to do all such acts and things and to acquire and / or dispose of such real and / or personal property as is usual or customary with and thing and to acquire and /dispose of such real and / or personal property as is usual or customary with a general trading post business.
 - (15) To apply for, accept and receive, surrender or renounce any title to land, grants for land, certificates of title, leases for land, mukim extracts, licenses, concessions permits and such other instruments, documents, rights, privileges, or permission and such renewals and
 - (16) To enter into any agreement with any government or authority, supreme, municipal, local or otherwise that may seem conducive to the Company's objects or any of them, and to obtain from any such government or authority and rights, privileges, licenses, and concessions which the Company may think fit desirable to obtain, and to carry out, exercise and comply with any such arrangements, rights, privileges, licenses and concessions.
 - (17) To purchase the property and goodwill of, or any interest in, any interest in, any business, and to make and carry into effect, all arrangements with respect to the union of interest or amalgamation, either in whole or in part, with any other company, firm or person having objects in some respects similar to or included in the objects of this Company, and to carry on business, the carrying on of which the Company may think directly, or indirectly conducive to the development of any property or any business in which it is interested.
- To grant licenses to exercise and use any patent or trade mark belonging to the Company and that for such royalty or consideration as may seem be agreed on with the licensees.
- (18) To undertake and execute any trusts and to establish branches in any part of India or elsewhere to carry on all or any business the Company is authorized to carry on and to manage such branches through trustees, agents or managers authorized by the Company.



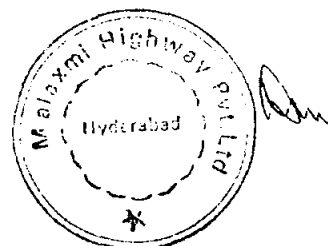
- (19) To lend money with or without security generally to such persons and upon such terms and conditions as may seem expedient, and in particular to persons having dealings with the Company or undertakings to build on or improve any property in which the Company is interested and to tenants, contractors, and others.
- (20) To advance, pay, deposit or lend money, securities and property to, or with such persons and on such terms and conditions as may seem expedient, to discount, buy and sell bills, notes, warrants, coupons and other negotiable or transferable securities or documents.
- (21) To pay or deposit money, securities and other property of the Company into or with such persons banks, governments, municipalities, authorities, companies or corporations and on such terms and conditions as may seem expedient.
- (22) To receive money on deposit at interest, or otherwise and to make, draw, accept, endorse, discount, execute and issue, deposit receipts, promissory notes, bills of exchange, bills of lading, warrants, debentures and other negotiable or transferable securities or instruments.
- (23) To make and give receipts, releases and other discharges for money payable to the Company, and for the claims and demands of the Company.
- (24) To borrow and raise money for the Company's business in such manner as the Company thinks fit and in particular by mortgage or charge of the undertaking and all or any of the assets, movable and immovable property and un-called capital for the time being of the Company.
- (25) To issue shares, debentures, debenture stock, 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, or either redeemable or otherwise, and to charge or secure the same by trust deed or otherwise, on the undertaking of the Company on upon any specified property and rights, present and future, of the Company or otherwise howsoever.
- (26) To guarantee the payment of money payable under contracts or obligations of any company or of any person whomsoever whether corporate or non-corporate with or without securities or upon such terms as the Company may approve.
- (27) To pay the costs, charges and expenses, preliminary and incidental to the formation, establishment and registration of the Company.
- (28) From time to time to subscribe or contribute to any charitable, benevolent or other objects of a public character, and also to political parties or for political purposes subject to the Provisions of Section 293A and other applicable Provisions if any, of the Companies Act, 1956.
- (29) To establish and support, or aid in the establishment and support of school, places of worship, associations, institutions, funds, trusts and arrangements calculated to benefit employees or ex-employees of the Company or its predecessors in business, or the dependents or connections of such persons, and to subscribe or make donations or gratuities to, or guarantee money for charitable, scientific, public, patriotic or benevolent objects, or any objects calculated to promote the interests of all Company.
- (30) To grant insurance, pensions, allowances, gratuities, provident funds, bonuses, workmen's, compensation and other superannuation funds to employees of the Company or the dependents of such person or any other persons.



- (31) To distribute among the members in specie any property of the Company including by way of distribution of dividends or otherwise, or any proceeds of sale or disposal of any property of the Company, and for such purpose to distinguish and separate capital from profits, but so that no distribution amounting to a reduction of capital be made except in compliance with the requirements of the Act.
- (32) To procure this company to be legalized, registered, domiciled or recognized in any foreign country.
- (33) To carry on the business of labour contractors or suppliers or labour brokers in connection with the main business of the company.

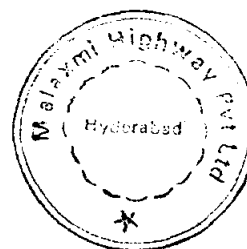
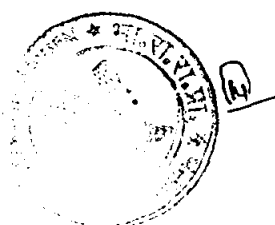
(C) OTHER OBJECTS NOT INCLUDED IN (A) AND (B) ABOVE ARE:

- (1) To engage in the business of generating, transmitting and distribution of power and for that purpose to establish, construct, build, own operate, maintain power generating stations, tie-lines, sub-stations, main transmission lines and all or any distribution facilities thereof.
- (2) To engage in the business of constructing, developing, owning and maintaining the telephone, telecommunications and all other forms of communications and network thereof, subject to the policy of Government of India in that behalf.
- (3) To carry on the business of producers, refiners, stores, suppliers and distributors of petroleum and petroleum products including constructing, developing, owning and / or maintaining pipelines for carriage / transport of petroleum and petroleum products and distribution thereof, terminals and other related facilities for storage, handling, supply and distribution thereof and to purchase storage, handling, supply and distribution thereof and to purchase or otherwise acquire oil wells, refineries and any rights or privileges which it may seem convenient to obtain for the purpose of or in connection with the business of the company; to erect all necessary or convenient refineries, mills, machinery, laboratories, workshops, dwelling -houses for workmen and others, and other buildings, works and appliances, and to aid in or subscribe towards or subsidize any such objects.
- (4) To carry on the business of dealers in automobiles, motor cars, motor cycles, bicycles, tri-cycles and vehicles of all kinds and all machinery, implements, appliances, lubricants, cements, solutions, tyres and tubes, spare parts and accessories.
- (5) To carry on the business of iron masters, smelters, iron founders, mechanical engineers and manufacturers of galvanized steel sheets, agricultural implements and other machinery, tool makers, brass founders, metal workers, boiler makers, mill-wrights, machinists, iron and steel converters, smiths, wood workers, builders, painters, metallurgists, motor and electrical engineers, water supply engineers, and to buy, sell manufacture, repair, convert, alter, let or hire, and deal in and act as agents for machinery, implements, rolling stocks, and hardware of all kinds.
- (6) To carry on the business of builders, contractors, decorators, merchants, and dealers in stone, sand, lime, cement, bricks, timber, hardware, and other building requisites, brick and tile and terra cotta makers, job masters, carriers, licensed victuallers, and house agents, and to develop and turn to account any land acquired by or in which the Company is interested, and in particular by laying out and preparing the same for building purposes, constructing, altering, pulling down, decorating, maintaining, furnishing, fitting up and improving buildings, and by planting, paving, draining, farming, cultivating, letting and buildings lease or building agreement, and by advancing money to and entering into contracts and arrangements of all



kinds with builders, tenants and others.

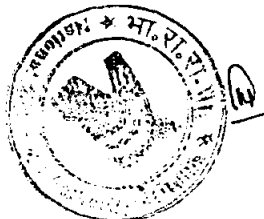
- (7) To carry on the business of manufacturers of, makers of Dealers in, distributors, hirers and repairers of articles of goods with concrete and all or any materials and things user for or in connection with the manufacture, making dealing in distribution, hiring and repair of such concreter articles or goods.
 - (8) To acquire, take up and hold shares, stocks, debentures, debenture - stock, bonds, obligations and securities, issued or guaranteed by any company constituted or carrying on business in India or in any foreign country; and debentures, debenture-stock, bonds, obligations and securities issued or guaranteed by any government, sovereign ruler, commissioner, public body, or authority, supreme, municipal local or otherwise, whether in India or any foreign country.
 - (9) To acquire any shares, stocks, debentures, debenture-stock, bonds, obligations or securities by original subscription, tender, purchase, exchange or otherwise, and to guarantee the subscription thereof, and to exercise and enforce all rights and powers conferred by or incidental to the ownership thereof.
- IV. The liability of the members of the Company is limited.
- V. a) The authorized Share Capital of the Company is Rs. 1,00,000./-(Rupees One Lakh Only) divided into 10,000 (Ten thousand) equity shares of Rs. 10/- (Rupees Ten only) each.
- b) The Company shall have power, from time to time to increase or reduce its capital and to divide, sub-divide, consolidate or reconstitute, the shares in the capital for the time being into other classes and to attach thereto respectively such preferential, deferred, qualified or other special rights, privileges, conditions or restrictions as may be determined by or in accordance with the Articles of Association of the Company and to vary, modify or abrogate any such rights, privileges, conditions or restrictions in such manner as may for the time being be permitted by the Articles of Association of the Company or the legislative provisions for the time being in force in that behalf.



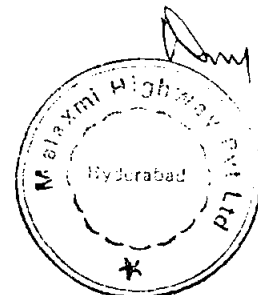
Sl.No.	Names, addresses, descriptions and occupation of subscribers and signatures	Name, address, description, occupation and signature of witness
1.	<p>P. Trivikrama Prasad S/o. Late Sri P. Venkateswara Rao Plot No.27, Navodaya Colony Road No.14, Banjara Hills Hyderabad – 500 034 Andhra Pradesh</p> <p>Occupation: Business</p> <p>Sd/- (P. TRIVIKRAMA PRASAD)</p>	<p>P. Renuka 6-3-788/36 & 37A Durga nagar colony, Ameerpet, Hyderabad – 500 016.</p> <p>Occupation: ACS Regn No. 11963</p>
2.	<p>Y. Harish Chandra Prasad S/o. Late Sri Y. Sreeramulu Plot No.G2, Plot No.24 Road No.2 & 8, Jubilee Hills Hyderabad-500 033 Andhra Pradesh</p> <p>Occupation: Business</p> <p>Sd/- (Y. HARISH CHANDRA PRASAD)</p>	

Place : Hyderabad

Date : 27-05-06



7



UNDER THE COMPANIES ACT, 1956
(1 OF 1956) COMPANY LIMITED BY SHARES

ARTICLES OF ASSOCIATION

OF

MALAXMI HIGHWAY PRIVATE LIMITED

PRELIMINARY

1. In these regulations:

(a) "the Act" means the Companies Act, 1956.

Definitions

(b) "the Company" means "**MALAXMI HIGHWAY PRIVATE LIMITED**"

(c) "the Board" means the Board of Directors of the Company.

2. The regulations contained in Table 'A' of the First Schedule to the Companies Act, 1956, so far as they are applicable to a Private Company, shall apply to this Company save in so far as they are expressly or impliedly excluded or modified by the following articles.

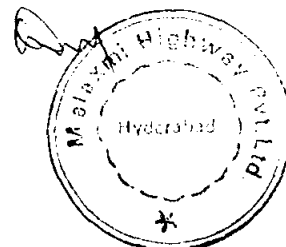
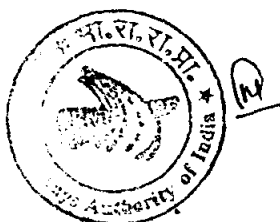
Applicable of
'Table A'

3. The Company is a Private Limited Company within the meaning of Section 3(1) (iii) of the Companies Act, 1956, and accordingly.

Company to
be Private

(i) No invitation shall be issued to the Public to subscribe for any shares in or debentures of the Company.

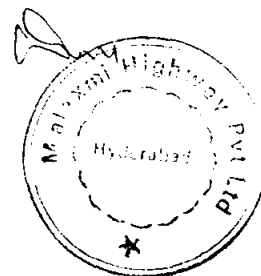
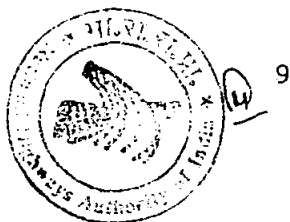
(ii) The number of members of the Company (exclusive of persons who are in the employment of the Company and persons who have been formerly in the employment of the Company, were members of the company while in that employment and have continued to be the members after the employment ceased) shall be limited to fifty, provided that for the purpose of this article where two or more persons hold one or more shares in the Company jointly, they shall be treated as a single member, and



- (iii) The right to transfer shares in the Company is restricted.
- (iv) No invitation or acceptance of deposits from persons other than the members, directors or their relatives, shall be made.
- (v) The Minimum paid up capital of the company is Rs.1,00,000/- (Rupees one Lakh only) or as may be prescribed from time to time.

SHARE CAPITAL

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| 4. | The Authorised Share Capital of the Company is as stated in Sub-clause (a) of the Clause V of the Memorandum of Association | Authorised Share Capital |
| 5. | The Company may issue preference shares or debentures carrying a right to redemption out of proceeds of fresh issue of shares made for the purpose of redemption or profits, at the option of the Company, and liable to be redeemed on such terms and in such manner as decided by the Board. | Preference shares & debentures |
| 6. | The Board may issue and allot shares in the capital of the Company in payment or part payment, for any properties sold or goods transferred or supplied or machinery supplied or for services rendered or to be rendered to the Company, or expenses incurred, in or about the formation or promotion or running of the Company. | Shares other than for cash. |
| 7. | Where any shares of the Company are issued for the purpose of raising money to defray the expenses of the construction, of any work or building or the provision of plant, which cannot be made profitable for a lengthy period, the Board shall be entitled to pay the interest on so much of that share capital as is for the time being paid up for the period, and charge the sum so paid by way of interest to capital, as part of the cost of construction of the work or building or provisions of the plant. | Interest on capital |
| 8. | The Company in General Meeting may from time to time by ordinary resolution alter the conditions of memorandum. | Power to alter Memorandum |
| 9. | Save as permitted and subject to provisions of the Act and all other applicable provision of law for the time being in force, the Company shall have power to purchase any of this own fully paid shares whether or not they are redeemable and may make a payment out of capital in respect of such purchase. | Purchase of own shares |
| 10. | The joint holders of a share shall be severally, as well as jointly, liable for the payment of all installments and calls due in respect of such shares. | Liability of joint holders |
| 11. | The Company shall be entitled to register any fully paid shares in the name of any minor person represented by a guardian and allow the dividend thereof to be collected by or shares transferred by such person as it deems fit as the guardian of such minor shareholders. | Shares to minor |
| 12. | No member who changes his name shall be entitled to recover any dividend or to vote until notice of the change be given to the Company and the said change is registered. | Notice of change of name |

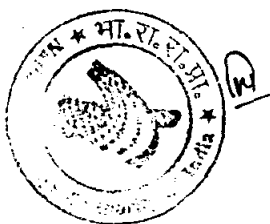


13. The Company may, accept from any member, the whole or a part of the amount remaining unpaid on any shares held by him, although no part of that amount has been called up. Accept advance although not called up
14. Every member shall be entitled free of charge to one or more certificates for all the shares registered in his/her name. Every certificate of shares shall specify the number and distinctive numbers of the shares in respect of which it is issued, and the amount paid thereon. The Company shall not issue more than one certificate in respect of the same share to joint holders. Members right to certificate

The certificate of title of shares shall be issued under the seal of the Company and under the signature of a Director.

CALLS ON SHARES

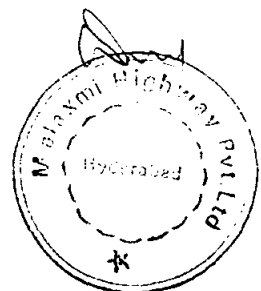
15. The Board may, from time to time make such calls as they think fit, upon the members in respect of all moneys unpaid on the shares held by them respectively and by the conditions of allotment thereof made payable at fixed time and each member shall pay amount of every call so made on him to the persons and at the time and place appointed. A call may be made payable in installments and shall be deemed to have been made when the resolution of the Directors authorizing such call was passed. Calls
16. At least fourteen days notice of any calls shall be given specifying the time and place of payment and to whom such call shall be paid. Notice of calls
17. The Board may from time to time at their discretion, extend the time fixed for the payment of any calls and may extend such time, as to all or any of the shareholders. Extension of time
18. Any money due from the Company to a shareholder may, without the consent of such shareholder, be applied in or towards payments of any money due from him to the Company for call or otherwise. Set off money due to shareholders from the Company
19. If any member fails to pay any call or installment on or before the day appointed for the payment of the same, the Board may at any time thereafter during such time as the call or any part thereof remains unpaid, serve a notice on such member, requiring him to pay the same together with any interest that may be accrued and all expenses that may have been incurred by the Company by reason of such non payment. If call or installment not paid notice may be given
20. The notice shall name a day and place on and at which such calls or installments or part thereof as the case may be and such interest and expenses aforesaid, are to be paid. The Notice shall also state that in the event of non-payment at or before the time and at the place appointed, the share in respect of which the call was made or installment is payable will be liable to be forfeited. Notice liable for forfeiture



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| 21. If any requisitions of any such notice aforesaid are not complied with, any shares in respect of which such notice has been given may at any time thereafter, before payment of any call or installments as the case may be and interest and expenses due, in respect thereof, be forfeited by resolution of the Board. | Liable for forfeiture |
| 22. When any share shall have been so forfeited notice of the resolution shall be given to the member in whose name it stood immediately prior to the forfeiture, and any entry of the forfeiture with the date thereof, shall forthwith be made in the register. | Notice of forfeiture |
| 23. Any shares 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 company |
| 24. The Board may at any time before any share so forfeited, has been sold, re-allotted or otherwise disposed off, annul the forfeiture upon such conditions as they think fit. | Annulment of forfeiture |
| 25. Any member whose shares shall have been forfeited, shall be liable to pay and shall forthwith pay to the Company, all calls, installments, interest and expenses owing upon such shares at the time of forfeiture together with interest thereon from the time of forfeiture together with interest thereon from the time of forfeiture until payment, at the rate of 12% per annum and the Directors may enforce the payment of such money or any part thereof, if they think fit, but shall not be under any obligation to do so. | Arrears to be paid not withstanding forfeiture |
| 26. The Company shall have first and paramount lien upon all shares registered in the name of each shareholder for his debts, liabilities, either solely or jointly with any other person, to or with Company, where the period for payment, fulfillment or discharge thereof shall have actually arrived, and when any share is held by more persons than one, the Company shall have a lien thereon in respect of all moneys due from all or any of the holders thereof. | Lien |

TRANSFER OF SHARES

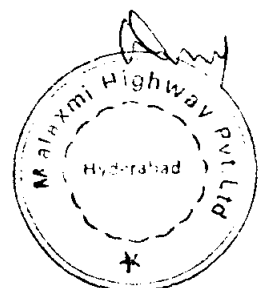
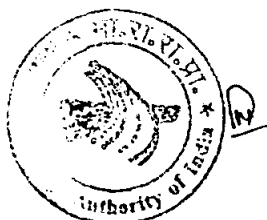
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| 27. Share cannot be transferred except to a person agreed to, by a majority of the board. This shall not apply where the holder of shares proposes to transfer the share to his son, daughter, spouse, grandson, grand daughter, father, mother, brother or sister or to any other member of the Company. | Restriction on transfer or transmission of shares |
|---|---|



28. Subject to the provisions above a member proposing to transfer any share (hereinafter called the proposing transferor) shall give notice in writing to the Board, that he/she desires to transfer the same. Such notice shall constitute the Company as his/her agent for transferring the shares to person/persons to be selected by the Board and at the price fixed by the Board. The transfer notice may include several shares and such case shall operate as if it was separate notice in respect of each. The transfer notice shall not be revocable except with the sanction of the Board. Transfer notice
29. The Company shall within the space of thirty (30) days after being served with such a notice find a member or a person and shall give notice thereof to the proposing transferor, who shall be bound upon payment of the value, to transfer the shares to the purchasing member selected aforesaid. Notice proposing transferor
30. The Board shall determine the fair value of the share for this purpose and the said fair value shall be in force unless otherwise altered. Fair value determination
31. If in case the proposing transferor having become bound as aforesaid makes default in transferring the shares, the company may receive the purchase money and shall there upon cause the name of the purchasing member to be entered in the register as the holder of the shares and shall hold the purchase money in trust for the proposing transferor. The receipt of the Company for the purchase money shall be good discharge to the purchasing member and after his name has been entered in the purported exercise of the aforesaid power, the validity of the proceeding shall not be questioned by any person. Default by the proposing transferor
32. If the Company does not, within the space of thirty (30) days after being served with transfer notice, find a member or a person willing to purchase the shares, and give a notice, the proposing transferor shall any time within 90 days thereafter, be at liberty (subject to Article 31 thereof) to sell and transfer the share to any person at any price. If no action has been taken by either party within that period, the whole procedure as aforesaid should be followed once again in case transfer is needed. Default by the Company
33. Subject to the provisions of the Articles herein, the Directors may refuse to register the transfer of any share. Refusal to register transfers
- (a) where the share is not fully paid up
- (b) where the company has lien on the share
- (c) where the result of such registration would make the number of members exceed the limit fixed in Article 3. This shall not apply where the proposed transferee is already a member.

MEETINGS

34. The provisions of sections 171 to 186 (both inclusive) of the Act, shall not apply to the Company in so far as they are expressly or impliedly excluded in these regulations.



35. (a) A general meeting of the Company may be called by the Board whenever it thinks fit.
- (b) Every notice of a meeting of the Company shall specify the place, date and the hour of the general meeting.
- (c) Any general meeting, including Annual General Meeting may be called on any day including a public holiday and may be held at the Registered Office of the Company or at any other suitable place anywhere else and the notice calling for Annual General Meeting shall specify it as such.
- (d) It shall not be compulsory to annexe any explanatory statement to the notice.

General Meeting

36. Two members present in person shall be the quorum.

Quorum

37. The Chairman if any, of the Board shall, if present preside as the Chairman at every general meeting, whether annual or extra-ordinary. But, if there be no such Chairman or in case of his absence or refusal, any one of the Directors present shall be chosen to be the Chairman of the meeting.

38. At any general meeting, a resolution put to vote shall be decided on a show of hands. But if on or at the declaration of result of the voting on show of hands, a poll shall be ordered to be taken by the Chairman on demand made by members holding not less than 25% of the paid up capital and personally present. In case of equality of votes, the Chairman of the meeting shall be entitled to a second or casting vote.

Voting and poll

39. No member shall exercise any voting right in respect of any shares registered in his/her name on which any calls or other sums presently payable by him/her have not been paid, or in regard to which the Company has and has exercised any right or lien.

Restriction on voting rights.

BOARD OF DIRECTORS

40. The Company shall have, not less than two and not more than twelve Directors on the Board.

Number of Directors

41. The following shall be the first directors of the Company:

First Directors

1. P. Trivikrama Prasad
2. Y. Harish Chandra Prasad

42. Any person whether a member of the Company or not, may be appointed as a Director and no qualification by way of shareholding from any director is necessary.

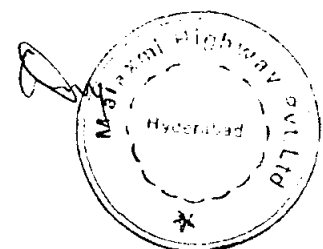
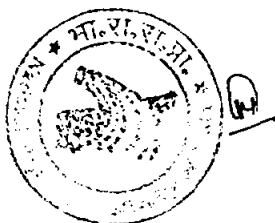
Share qualification not applicable

43. The Board shall have power at any time and from time to time to appoint a person as Additional Director provided the total number shall not exceed the maximum number fixed and such person shall hold office only upon the next annual general meeting.

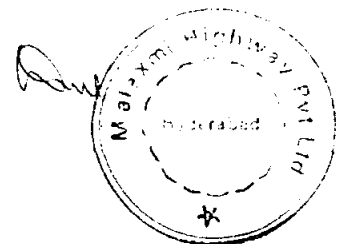
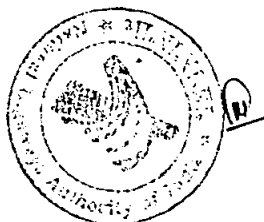
Additional Directors



- | | | |
|-----|--|--|
| 44. | The Board may fill any casual vacancy that may arise before the expiry of the term of office of a Director | Casual vacancy |
| 45. | A person shall be appointed a Director at General Meeting(s) by an ordinary resolution. | Appointment |
| 46. | If any director shall be appointed to advise the Board or Company, as an expert or be called upon to perform extra services or make exertions for any purpose of the Company, the Board may pay such Director, such special remuneration as they think fit which remuneration may be in the form of either salary, commission or a lump sum payment. | Special remuneration |
| 47. | A Director may hold any other office or place of profit under the company excepting that of an auditor, upon such terms as to remuneration, tenure of office or otherwise as may be determined by the Board from time to time. | Director to hold any other office |
| 48. | Directors shall not be liable to retire by rotation. | Retirement of Director |
| 49. | A Director may be removed from office at a general meeting by means of an ordinary resolution. | Removal of Director |
| 50. | The business of the Company shall be managed by the Board who may pay all expenses incurred in setting up and registering the company and may exercise all such powers of the Company as are not required to be exercised in general meeting by the Act, or any statutory modification thereof for the time being in force or by these Articles. | General power of company to be vested in Directors |
| 51. | If and when the Company arranges to get substantial share capital of the Company taken up, borrows money or secures guarantee by recognized financial or industrial development corporation or bank, or any corporate body and if in terms of agreement for such financial help the appointment of their representative as Directors of the Company is required, their representative shall accordingly be appointed as Directors. Any person so appointed may at any time be removed by the appointing authority. | Nominee Directors |
| 52. | Each Director may be paid out of the funds of the Company as remuneration for his service a sum as may be determined by the Board from time to time, for every meeting including adjourned meeting of the Directors or Committee thereof, and at all General Meeting including the Annual General Meeting at which he/she shall be present in person. In addition, traveling hotel and other expenses actually incurred may be reimbursed. | Sitting fee |
| 53. | Board of Directors may from time to time by ordinary resolution vary the number of directors. | Varying the number |
| 54. | The directors may appoint an alternate director to act for a director during his absence subject to section 313 of the Act. | Alternate Director |

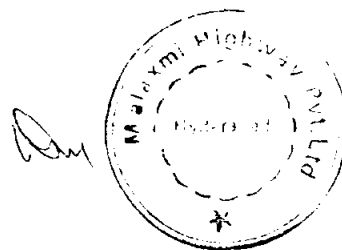
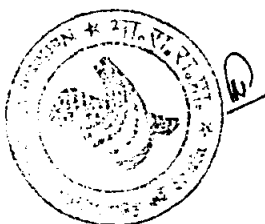


55. (a) The Board may from time to time appoint one or more of their body to the office of Managing Director, Joint Managing Director, Wholetime Director, on such terms and on such remuneration whether by way of salary or by commission or partly by salary, and partly by commission as they think fit, but the appointment shall be subject to the determination, ipso facto, if he/she ceases for any cause to be a Director, or the Company in General Meeting resolves that the tenure of office of the Managing Director, Joint Managing Director, Wholetime Director be determined. Managing/Wholetime Director
- (b) A full time member of the Board of Directors of the Company shall be a person who has experience of, and has shown capacity in
- (i) Design, construction, operation and maintenance of generating stations,
 - (ii) Transmission and supply of electricity,
 - (iii) Applied economics,
 - (iv) Organizing workers,
 - (v) Industrial, commercial or financial matters, or
 - (vi) Administration in Government Department, or other establishment.
56. The Directors may from to time entrust or confer upon the Managing Director, Joint Managing Director, Wholetime Directors for the time being such of the powers exercisable by the Directors as they may think fit, and they may confer such power for such time and be exercised for such objects and purpose, and upon such terms and conditions, and with such restriction as they think expedient, and may from time to time withdraw, revoke, alter or vary, all or any of such powers. Delegation of powers of Directors
57. The Board may together for the dispatch of business and adjourn and otherwise regulate their meetings and proceedings, as they may think fit. Meetings
58. Notice of every meeting of the Board shall be given in writing to every Director in India. In case of a Director who is not in India, notice shall be sent to his/her usual address in India. Notice
59. The quorum of a meeting of the Board shall be not less than one-third of its strength or two Directors whichever is higher. But, at an adjourned Board Meeting, any two Directors present shall be quorum. Quorum
60. The Chairman of the Board or Managing Director or any two Directors or Secretary upon the requisition of Directors, may at any time convene a meeting of the Directors. Who may convene Board Meeting
61. The Directors may from time to time elect one of their members as the Chairman of the Board. If at any meeting of the Board the Chairman is not present at the time appointed for holding the same, the Directors present shall choose one of their members to be Chairman of such meeting. Chairman



POWERS OF THE BOARD

- | | | |
|-----|---|---|
| 62. | A meeting of the Board at which quorum is present, shall be competent to exercise all or any of the Authorities, powers and discretion by or under the Articles of Association of the Company for the time being vested in Board or exercisable by the Directors. | Power of Board |
| 63. | Questions arising at any meeting of the Board shall be decided by a majority of votes, and in case of any equality of votes the Chairman shall have a second or casting vote. | Decisions |
| 64. | The Board may delegate any of their powers to a committee consisting of such member or members of their body as they think fit and may from time to time revoke such delegations. Any committee so formed shall in exercise of the powers so delegated, conform to any regulations that may from time to time imposed upon it by the Board. | Power to appoint committees |
| 65. | All acts done at any meeting of the Board or a committee of Directors shall be valid notwithstanding that it shall afterwards be discovered that there was some defect in the appointment of such directors or person acting as aforesaid or that they or any of them were disqualified, as if every such person had been duly appointed and was qualified to be a Director. | Defective appointment |
| 66. | Subject to section 292 of the Act, a resolution signed by a majority of the Directors present in India for the time being shall have the same effect and validity as a resolution of the Board of Directors duly convened and constituted. | Circular resolution |
| 67. | Subject as aforesaid any bonds, debenture stock or the securities issued by the Company shall be under the control of the Directors, who may issue them upon such terms and conditions and in such manner and for such consideration as they shall consider to be for the benefit of the Company. | Bonds, debentures to be under the control directors |
| 68. | <p>(i) The Board shall cause proper books of account to be maintained under section 209 of the Companies Act, 1956.</p> <p>(ii) Subject to the provisions of Section 209A of the Companies Act, 1956, the Board shall also, from time to time, determine, whether and to what extent and at what times and places and under what conditions or regulations account books of the Company or any of them, shall be open to the inspection of members not being Directors.</p> <p>(iii) Subject to the provisions of Section 209A of the Companies Act, 1956, no member (not being a Director) or other person shall have any right of Inspecting any account book or document of the Company except as conferred by law or authorized by the Board or by the Company in general meetings.</p> | Inspection of Accounts |
| 69. | (i) Every manager, auditor, trustee, member of a committee, officer, servant, agent, accountant or other person employed in the business of the Company shall, if so required by the Board of Directors, before entering upon the duties, sign a declaration pledging himself to observe strict secrecy respecting all bonafide transaction of the company with its | Secrecy |



customers and the state of accounts with individuals and in matters relating thereto and shall by such declaration pledge himself not to reveal any of the matters which may come to his/her knowledge in the discharge of his duties except when required to do so by the Directors or by any general meeting or by the law of the country and except so far as may be necessary in order to comply with any of the provisions in these resents and the provisions of the Companies Act, 1956.

- (ii) Subject to the provisions of the Act, any Director or Officer of the Company shall be entitled to, if he thinks fit, decline to answer any question concerning the business of the company on the ground that the answer to such question would disclose or tend to disclose the secrets of the company.

BORROWING POWERS

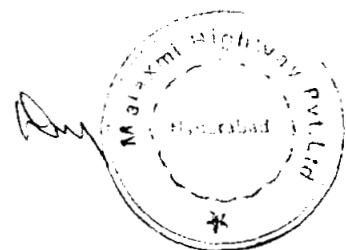
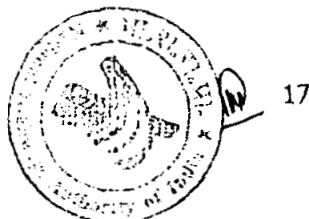
70. Subject to the provisions of sections 58A and 292 of the Companies Act, 1956, the Directors shall have the power, from time to time and at their discretion, to borrow, raise or secure the payment of any sum of money for the purpose of the Company in such manner and upon such terms and conditions in all respects as they think fit and in particular by the issue of debentures or bonds of the Company or by mortgage or charge upon all or any of the properties of the Company both present and future including its uncalled capital for the time being.

OPERATION OF BANK ACCOUNTS

71. The Directors shall have the power to open bank accounts, to sign cheques on behalf of the Company and to operate all banking accounts of the Company and to receive payments, make endorsements, draw any accept negotiable instruments, hundies and bills or may authorize any other person or persons to exercise such powers.

INDEMNITY

72. Subject to the provisions of Section 201 of the Companies Act, 1956, the Chairman, Directors, Auditors, Managing Directors and other officer for the time being of the Company and any trustees for the time being acting in relation to any of the affairs of the Company and their heirs and executors, shall be indemnified out of the assets and funds of the Company from or against all bonafide suits, proceedings, costs, charges, losses, damages and expenses which they or any of them shall or may incur or sustain by reason of any act done or committed in or about the execution of their duties in their respective offices except those done through their willful neglect or default. Any such officer or trustee shall not be answerable for acts, omissions, neglects or defaults of any other officer or trustee.



73. Subject to the provision of Section 201 of the Act, no Director, Manager or other officer of the Company shall be liable for the acts, receipts of any other Director or for joining in any receipts or other acts for conformity or for any loss or expenses happenings to the Company though the insufficiency or deficiency of title to any property acquired by order of the Directors 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 or damage arising from the bankruptcy insolvency of any person with whom any moneys, securities or effects shall be deposited or for any loss, occasioned by an error of judgement or oversight on his part or for any loss, damage or misfortune which shall happen in the execution of the duties of his office or in relation there to unless the same happens through his own willful neglect or default.

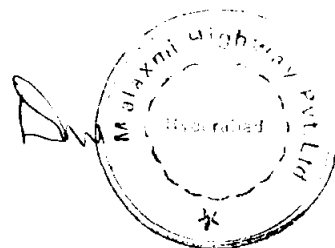
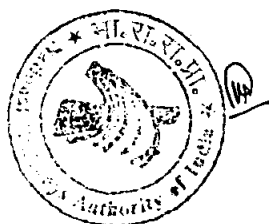
74. The Board shall arrange for the safe custody of the common seal of the company.

Common Seal

The common seal shall not be affixed to any instrument except by the authority of the resolution of the Board or a Committee thereof and except in the presence of at least one Director who shall sign every instrument to which the seal of the Company is so affixed in his presence.

75. The company may by a resolution declare and pay dividends out of the surplus. The Directors may from time to time pay to the members such interim dividends as appear to the Directors to be justified.

Dividends

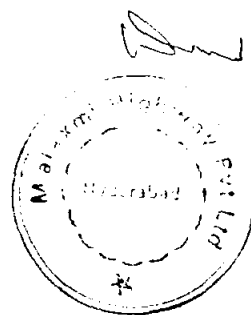


We the several persons whose names and addresses are subscribed here to are desirous of being formed into a company in pursuance of this Memorandum of Association, and we respectively agree to take the number of shares in the capital of the company set opposite our respective names.

Sl.No.	Names and addresses, descriptions and occupation of subscribers and signatures	No.of equity shares taken by each subscriber	Name, address, description, occupation, and signature of witness
1.	Y. Harish Chandra Prasad s/o Late Y. Sree ramulu Plot No.G2, Plot No.24 Road No.2 & 8, Jubilee Hills Hyderabad-500 033 Andhra Pradesh Occupation: Business Sd/-	5000 shares (Five thousand only)	P. Renuka 6-3-788/36 & 37A Durga nagar colony, Ameerpet, Hyderabad – 500 016.
2.	P. Trivikram Prasad S/o. P. Venkateswara Rao Plot No.27, Navodaya Co-op Housing Society, Road No.14, Banjara Hills, Hyderabad - 500 034. Andhra Pradesh Occupation: Business Sd/-	5000 shares Five thousand only)	Occupation: ACS Regn No. 11963
	Total No.of shares taken	10000 shares (Ten thousand only)	

Place: Hyderabad

Date: 27.05.2006





सत्यमेव जयते

Form 1

Certificate of Incorporation

Corporate Identity Number : U45203AP2006PTC050284

2006 - 2007

I hereby certify that MALAXMI HIGHWAY PRIVATE LIMITED is this day incorporated under the Companies Act, 1956 (No. 1 of 1956) and that the company is limited.

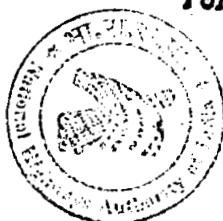
Given under my hand at Hyderabad this NINETH day of JUNE TWO THOUSAND SIX.



Dr. V. V. Baskar
 Dy Registrar of Companies
 Andhra Pradesh

CERTIFIED TRUE COPY

For Malaxmi Highway Private Limited



Director
 Director



TRUE EXTRACT OF THE RESOLUTION PASSED AT THE MEETING OF BOARD OF DIRECTORS OF THE COMPANY HELD ON JULY 6, 2006 AT THE REGISTERED OFFICE OF THE COMPANY

"RESOLVED THAT approval be and is hereby given to execute Concession Agreement with National Highways Authority of India for designing, construction, development, Finance, operation and maintenance from Km.547.400 to Km.596.750 on National Highway No.7 (NH-7) in the State of Madhya Pradesh under North-South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) basis – Package No.NS-1/BOT/MP-2."

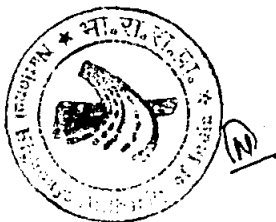
"RESOLVED FURTHER THAT Mr. D. Suresh and Mr. C.S. Prasad, Directors of the Company be and are hereby authorised, jointly or severally to:

1. execute any deed, documents, agreements or papers as may be necessary,
2. appear, liason with, present before statutory, local, regulatory, Government authority/ties for statutory and regulatory matters involved in this regard,
3. appoint Solicitor(s), Advocate(s), Consultant(s), Professional(s) as may be necessary in this regard,
4. authorise any official of the Company to do acts, deeds and things as they deem fit and proper,
5. settle any queries, disputes as may arise in this regard."

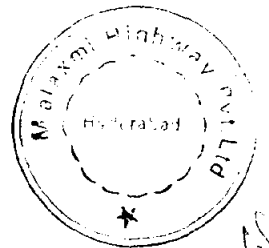
"RESOLVED FURTHER THAT pursuant to Article 74 of the Articles of Association the Common Seal of the Company be affixed on such documents, papers or agreements executed in this regard in the presence of any one of the Directors of the Company."

// certified true copy//

For Malaxmi Highway Private Limited



[Signature]
Director



Malaxmi Highway Pvt. Ltd.

Regd. Office : Malaxmi House, 8-2-583/3, Road # 9, Banjara Hills, Hyderabad - 500 034.

Ph : +91-40-23358953/54, Fax : +91-40-23358950, Email : mail@malaxmi.in Web : www.malaxmi.in

Corporate Office : Meenakshi House, 8-2-418, Road # 7, Banjara Hills, Hyderabad - 500 034.

Tel. +91-40-23358111 / 222 / 333, Fax : +91-40-23351133

e-mail : info@meenakshigroup.net, URL : www.meenakshigroup.net

Folio No. 221
Date at which entered as a Member. 22.05.2006
Date at which ceased to be a Member.

Dr. _____

Father's / Husband's Name: Mr. Y. LAKSHMAN

Status: INDIVIDUAL

Date at which ceased to be a Member: _____

SHARES ACQUIRED							Dr. CASH PAYABLE				Cr. CASH PAID ON SHARE				Cr. SHARES TRANSFERRED (or FORFEITED)							
No. of Allot. or Transfer	Date of Allotment or Transfer	No. of Shares allotted/ transferred	Distinctive Numbers (Inclusive) From To	No. & date of issue of certificate	Transfer's Folio	Nominal value of Shares acquired	Date when called	Description of payment as No. of call	Amount per Share	Total Amount	Date when due	Date of Payment	Cash Book Folio	Amount	No. of transfer	Date of Transfer or Forfeiture	No. of Shares transferred/ forfeited	Distinctive Number (Inclusive) From To	Transfer's Folio	Total Number Name of Shares Transferred or Forfeited	Balance Shares held	REMARKS
2	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1.	27.05.2006	5,000	1 5000	1/25.5g.	-	50,000/-										06/07/06	100	1 100	003	1000	4900	

Folio No.....002.....
Date at which entered as a Member.....07-05-2006.....
Date at which ceased to be a Member.....06-07-2006.....

	Father's / Husband's Name	Status	Date at which ceased to be a Member
2.	P. Venkateswaraiah - 50,000/-	INDIVIDUAL	06.07.2006

Melaxmi Highway
Private Limited
Hyderabad

CERTIFIED TRUE COPY

For Melaxmi Highway Private Limited

[Signature]
Director

403

CERTIFIED TRUE COPY

For Melaxmi Highway Private Limited

Director

Date at which ceased to be a Member.....

Date at which ceased to be a Member.....

A circular postmark from Hyderabad, India, dated May 1947. The text "Hyderabad" is in the center, "India" is at the bottom, and "May 1947" is at the top. A star is on the left side.

Directo

LIST OF DIRECTORS

This is to certify that the list of Directors of M/S Malaxmi Highway Private Limited, a Company having its Registered Office at 'MALAXMI HOUSE', 8-2-583/3, Road No.9, Banjara Hills, Hyderabad-500 034, as on this date are as under:

S. No.	Name and Address	Designation
1.	Y. Harishchandra Prasad Plot No.G2, Plot No.24, Road No.2, Jubilee Hills, Hyderabad – 500 033.	Director
2.	P. Trivikram Prasad Plot No.27, Navodaya Co-Op Housing Society Road No.14,Banjara Hills Hyderabad – 500 034.	Director
3.	C.S.Prasad 303, Meenakshi's Royal Court Road No.11, Banjara Hills Hyderabad – 500 034.	Director
4.	D. Suresh H. No.8-2-401/C/1, P.No.20 Road No.4, Banjara Hills Hyderabad – 500 034	Director

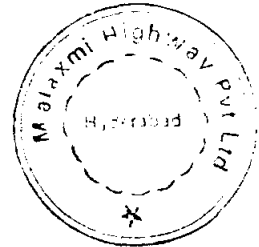
Place: Hyderabad

Date: 11.07.2006

//certified true copy//

For Malaxmi Highway Private Limited


Director



Malaxmi Highway Pvt. Ltd.

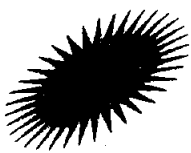
Regd. Office : Malaxmi House, 8-2-583/3, Road # 9, Banjara Hills, Hyderabad - 500 034.

Ph : +91-40-23358953/54, Fax : +91-40-23358950, Email : mail@malaxmi.in Web : www.malaxmi.in

Corporate Office : Meenakshi House, 8-2-418, Road # 7, Banjara Hills, Hyderabad - 500 034.

Tel. +91-40-23358111 / 222 / 333, Fax : +91-40-23351133

e-mail : info@meenakshigroup.net, URL : www.meenakshigroup.net



NBFA

NAVA BHARAT FERRO ALLOYS LIMITED

"NAVA BHARAT CHAMBERS", RAJ BHAVAN ROAD, HYDERABAD-500 082. A.P. INDIA.

406

July 11, 2006

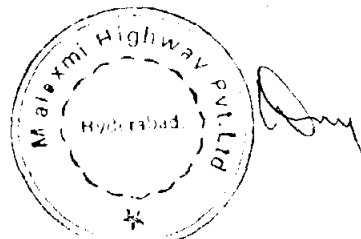
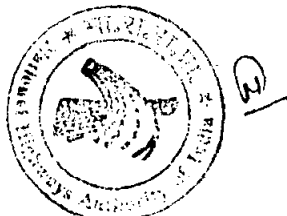
To Whomsoever It May Concern

This is to certify that the Board of Nava Bharat Ferro Alloys Limited having its registered office at Nava Bharat Chambers, 6-3-1109/1, Raj Bhavan Road, Hyderabad-500 082, has approved investment upto 51%, either directly or through its Subsidiary, in the Equity Capital of Malaxmi Highway Pvt limited, the Project Company promoted to serve the purpose of an 'SPV' for Designing, Construction, Development, Finance, Operation and Maintenance of Km 547.400 to Km 596.750 on National Highway No. 7 (NH-7) in the State of Madhya Pradesh on BOT (Annuity) basis.

P. TRIVIRKRAMA PRASAD
EXECUTIVE DIRECTOR

Telephone : (040) 23402064, 23403501, 23403540, Fax : (040) 23403013
E-mail : nabfal@nettlinx.com nbfa@sify.com Website : www.nbfal.com

ISO 9001 **ISO 14001**



B. KRISHNAVENI

B.Com., A.C.A., A.C.S.

COMPANY SECRETARY

Flat No. 204,
Aasritha Enclave,
Vengalrao Nagar,
Hyderabad - 500 038.
Phone : 040-23811052
E-mail : aashkrishna@yahoo.co.in

407

10th July 2006

CERTIFICATE

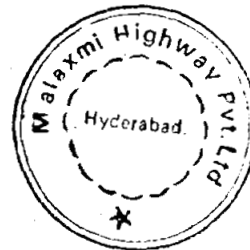
Based on the Records and Registers produced before me by M/s. Malaxmi Highway Private Limited, a Company registered under the Companies Act, 1956 having its registered office at Malaxmi House, 8-2-583/3, Road No. 9, Banjara Hills, Hyderabad - 500 034, I hereby certify that the Equity Shareholding pattern of the company as on the aforesaid date is as follows:

S. No.	Name of the shareholder	Percentage %
1	Nava Bharat Ferro Alloys Limited	1.00%
2	Kinnera Power Company Limited	50.00%
3	Y. Harish Chandra Prasad	49.00%
	TOTAL:	100.00%

Place: Hyderabad

B. Krishnaveni
Company Secretary in Practice

CP. No. 4286





NAVA BHARAT FERRO ALLOYS LIMITED

"NAVA BHARAT CHAMBERS", RAJ BHAVAN ROAD, HYDERABAD-500 082. A.P. INDIA.

NBFA

July 24, 2006

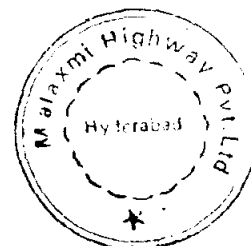
TO WHOMSOEVER IT MAY CONCERN

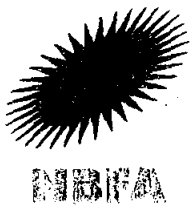
This is to certify that M/s.Kinnera Power Company Limited (KPCL) is a subsidiary of M/s.Nava Bharat Ventures Limited [Formerly Nava Bharat Ferro Alloys Limited (Nava Bharat)] with 98.62% stake. The management of the firm i.e. M/s.KPCL is completely vested with the management of Nava Bharat only.

**P.TRIVIKRAMA PRASAD
EXECUTIVE DIRECTOR**

Telephone : (040) 23402064, 23403501, 23403540, Fax : (040) 23403013
E-mail : nabfal@netlinx.com nbfa@sify.com Website : www.nbfal.com

ISO 9001 ISO 14001





NAVA BHARAT VENTURES LIMITED 409
FORMERLY
NAVA BHARAT FERRO ALLOYS LIMITED
"NAVA BHARAT CHAMBERS", RAJ BHAVAN ROAD, HYDERABAD-500 082. A.P. INDIA.

NBFA/SECTL/1298/2006-07
July 24, 2006

National Highways Authority of India
G-5 & 6, Sector - 10
Dwaraka
NEW DELHI - 110 045

Kind attn : **Shri P.Ravinder Rao,**
General Manager (N-II)

Dear Sir,

Sub: Design, Construction, Development, Finance, Operation and Maintenance
of Km. 547.400 to Km. 596.750 on National Highway No.7 (NH-7) in the
State of Madhya Pradesh under NorthSouth Corridor (NHDP Phase-II) on
Build Operate and Transfer (BOT) (Annuity) Basis Package No.
NS-1/BOT/MP-2 - Intimation of change of name of the Company.

In continuation of our bid and the letter of acceptance received for the aforesaid
project, this is to inform that the name of our Company was changed as "NAVA
BHARAT VENTURES LIMITED" vide Fresh Certificate of Incorporation issued
by Government of India of 7th July, 2006, a certified copy of which is enclosed
herewith.

This is for your kind information and effecting necessary change in your
records.

Thanking you,

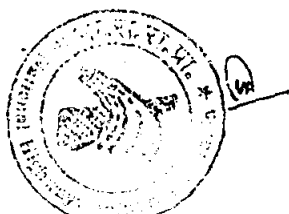
Yours faithfully,
For NAVA BHARAT VENTURES LIMITED

M.SUBRAHMANYAM
COMPANY SECRETARY & CGM (CA)

Encl : as above.

Telephone : (040) 23402064, 23403501, 23403540, Fax : (040) 23403013
E-mail : nabfal@nettlinx.com nbfa@sify.com Website : www.nbfal.com

ISO 9001 ISO 14001



GOVERNMENT OF INDIA

MINISTRY OF COMPANY AFFAIRS

410

Andhra Pradesh

2nd Floor, CPQD Building, Kendriya Sadan, Sultan Bazar, Koti, Hyderabad - 500195, Andhra Pradesh, INDIA

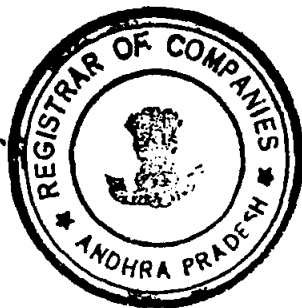
Corporate Identity Number : L27101AP1972PLC001549

Fresh Certificate of Incorporation Consequent upon Change of Name

IN THE MATTER OF M/s NAVABHARAT FERRO ALLOYS LIMITED

I hereby certify that NAVABHARAT FERRO ALLOYS LIMITED which was originally incorporated on SEVENTH day of NOVEMBER NINETEEN SEVENTY TWO under the Companies Act, 1956 (No. 1 of 1956) as NAVABHARAT FERRO ALLOYS LIMITED having duly passed the necessary resolution in terms of Section 21 of the Companies Act, 1956 and the approval of the Central Government signified in writing having been accorded thereto under Section 21 of the Companies Act, 1956, read with Government of India, Department of Company Affairs, New Delhi, Notification No. G.S.R 507 (E) dated 24/06/1985 vide SRN A01893908 dated 07/07/2006 the name of the said company is this day changed to NAVA BHARAT VENTURES LIMITED and this Certificate is issued pursuant to Section 23(1) of the said Act.

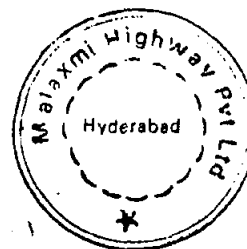
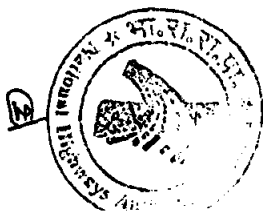
Given under my hand at Hyderabad this SEVENTH day of JULY TWO THOUSAND SIX.



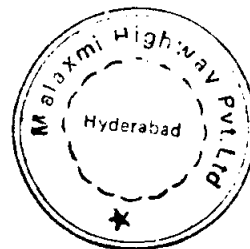
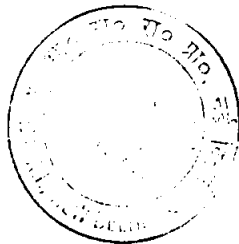
Atm
(D. Vyaya Bhaskar).
Dy. Registrar of Companies
Andhra Pradesh

For NAVA BHARAT VENTURES LIMITED

See
Company Secretary & Chief General Manager
(Corporate Affairs)



**UNDERTAKING BY SPV NOT
TAKING UP OF ANY ACTIVITY
EXCEPT PROJECT**



[Handwritten signature]

Ref. No.MHPL/NHA:0001:2006

July 24, 2006

National Highways Authority of India
G-5 & 6, Sector-10, Dwaraka
NEW DELHI - 110 045

Phone # 011-25074100
Fax # 011-25093513

Kind Attn: Shri P.Ravinder Rao, General Manager (N-II)

Sub: *Design, Construction, Development, Finance, Operation and Maintenance of Km. 547.400 to Km. 596.750 on National Highway No.7 (NH-7) in the State of Madhya Pradesh under North-South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis - Package No.NS-1/BOT/MP-2- Undertaking from the "SPV" Company for Signing the Concession Agreement - Reg.*

In compliance with the provisions of the RFP documents and the Concession Agreement, we, as Malaxmi Highway Pvt. Ltd (The "SPV" Company), are hereby undertake that, during the concession period, the "SPV" Company shall not carryon any other business activity except the activities pertains to design, construction, development, finance and operation and maintenance of the captioned project (The Project Road).

Very truly yours,
for MALAXMI HIGHWAY PVT LIMITED


(D. SURESH)
DIRECTOR

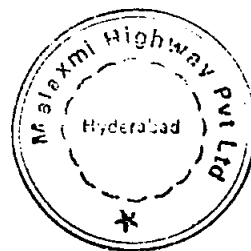
Malaxmi Highway Pvt. Ltd.

Regd. Office : Malaxmi House, 8-2-583/3, Road # 9, Banjara Hills, Hyderabad - 500 034.

Ph : +91-40-23358953/54, Fax : +91-40-23358950, Email : mail@malaxmi.in Web : www.malaxmi.in

Corporate Office : Meenakshi House, 8-2-418, Road # 7, Banjara Hills, Hyderabad - 500 034.







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/NHDP/PH-II/BOT(Annuity)/GM(N-2)/ MP-2/NS-1/2006 / 989

21-09-2006

M/s Nava Bharat Ventures Limited
(Formerly known as M/s Nava Bharat Ferro Alloys Limited)
6-3-1109/1, Rajbhavan Road,
Hyderabad – 500 082.
Phone No.040-23403501, 23402064
Fax No.040-23403013

NBFA-HYD	
I.No: 2168	
Dt: 22	9/06

Kind Attn.: Sh.P.Trivikrama Prasad, Executive Directors

Sub : Design, Construction, Development, Finance, Operation and Maintenance of Km. 547.400 to Km. 596.750 on National Highway No. 7 (NH-7) in the State of Madhya Pradesh under North South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis – Package No. NS-1/BOT/MP-2 :

Sir,

Please refer to your letter dated 11th July, 2006 thereby forwarding a compliance list by the SPV for signing of the Concession Agreement. The documents have been examined and the following observations are communicated :-

(i) Recital “c” of the two bank guarantees submitted against Performance Security may 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. 5,26,34,000/- (Indian Rupees Five Crores Twenty Six Lakhs and Thirty Four Thousands only) as security for compliance with its obligations under the Concession Agreement up to and including the Construction Period”.

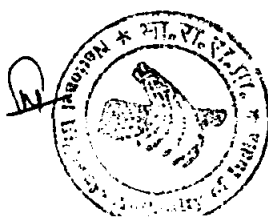
(b) “ In order to perform and discharge all its obligations concerning the “Project” the Concessionaire is required to give National Highways Authority of India (NHAI) a guarantee by a recognized bank based in India in the sum of Rs. 7,89,51,000/- (Indian Rupees Seven Crores Eighty Nine Lakhs and Fifty One Thousands only) as security for compliance with its obligations under the Concession Agreement up to and including the Construction Period”.

(ii) The validity of Bank Guarantee no. 8520 for an amount of Rs. 5,26,34,000/- which is valid till 10-07-2007 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 30th September 2006, the BG needs to be extended to cover the period up to July,2007.

(iii) The validity of Bank Guarantee no. 8521 for an amount of Rs. 7,89,51,000/- which is valid till 10-10-2009 may be extended up to January 2010 so as to cover the period up to the Construction Period.

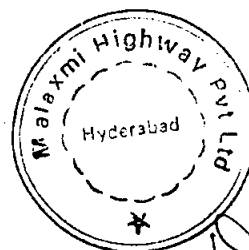
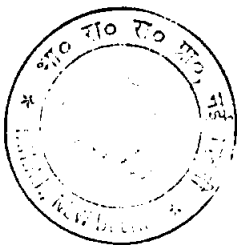
Compliance to the above mentioned observations may be submitted at the earliest so that the agreement can be signed by 30th September, 2006.

Yours faithfully,



(R.K. Singh)
Manager(N-II)

AMENDMENTS SUBMITTED BY SPV



NBFA**NAVA BHARAT FERRO ALLOYS LIMITED**

"NAVA BHARAT CHAMBERS", RAJ BHAVAN ROAD, HYDERABAD-500 082. A.P. INDIA.

Ref. No. NBFA/NHA: 229/2006

September 2006

National Highways Authority of India
G-5 & 6, Sector-10, Dwaraka
NEW DELHI - 110 045

Phone # 011-25074100

Fax # 011-25093513

Kind Attn: Shri M. P Sharma, General Manager (N-II)

Sub: Design, Construction, Development, Finance, Operation and Maintenance of Km. 547.400 to Km. 596.750 on National Highway No.7 (NH-7) in the State of Madhya Pradesh under North-South Corridor (NHDP Phase-II) on Build Operate and Transfer (BOT) (Annuity) Basis - Package No. NS-1/BOT/MP-2- Amendments to the Performance Security BGs by SPV for Signing the Concession Agreement - Reg.

Dear Sir,

Ref: Your Letter No. NHA/NHDP/PH-II/BOT (Annuity)/GM(N-2)/MP-2/NS-1/2006/989, dated 21 September 2006.

We refer to the above-cited letter on the subject under reference.

As advised by you, in order to execute the concession Agreement between Malaxmi Highway Pvt Ltd (the "SPV" Company/Concessionaire) and NHA, we are pleased to submit herewith original copies of amendments to the two Bank Guarantees bearing Nos. 8520 and 8521 dated 11th July 2006, which were submitted against Performance Security as per the Schedule-F of RFP Part-III on behalf of the "SPV" Company, for your kind perusal and records.

We hope the above documents are in order, and look forward to your consent in this regard at the earliest for signing of the Concession Agreement.

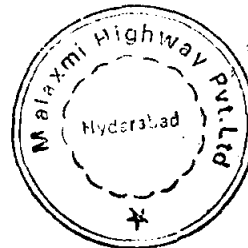
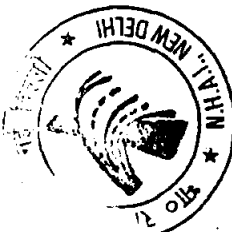
Thanking you and assuring of our best services at all times.

Very truly yours,
for NAVA BHARAT FERRO ALLOYS LIMITED


G.R.K. PRASAD
DIRECTOR (FINANCE & CORPORATE AFFAIRS)
Encl: As mentioned above

Manager (N-II)

27/9



Telephone : (040) 23402064, 23403501, 23403540, Fax : (040) 23403013
E-mail : nabfal@nettlinx.com nbfa@sify.com Website : www.nbfal.com

ISO 9001 ISO 14001



STATE BANK OF HYDERABAD

Industrial Finance Branch

HYDERABAD - Code - 703 BRANCH

Stamp

To ~~From~~ Mr. M. P. Sharma, (M.L.N.II) EB/A No. 000474
National Highways Authority of India
Plot no. G-5 & 6, Sector - 10.
Dwarka
New Delhi - 110075

Dear Sirs,

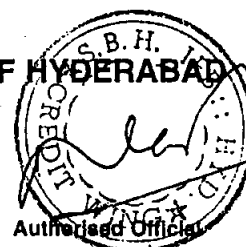
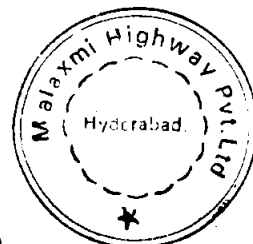
Extension Guarantee No. 8520
for Original Guarantee No. 8520
Extended for a period of 1m upto* 31-07-2007
Last date for lodgement of claims under Extension Guarantee : * 31-07-2007

* (Both should have the same date)

We hereby inform you that the Guarantee No. 8520
Issued by us on 11-07-2006 for Rs. 5,26,34,000 and renewed till
(Please strike out, if not applicable)
shall stand extended upto 31-07-2007 with the
aforesaid date as the last date for receipt of the claim. and Item 'C' of the Recitals
and Clause 8 of the original guarantee stand amended as per
annexure
All other terms and conditions as appearing in the original Guarantee shall apply to this

Extension Guarantee and it shall be read with the original Guarantee.

Dated the 23rd day of September 2006



Countersigning Official

Authorized Official



ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

C 425831

S. No. 9/094 Dt. 12/9/2006 Rs. 100

Sold To: V. Jay S. S.

6/0/10/10/10... B. R. Krishna Plotter

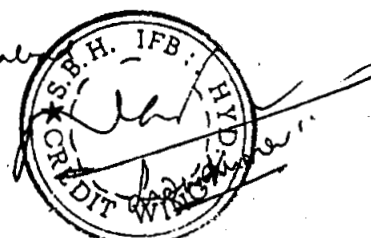
To Whom: Meenakshi Infrastructures Pvt. Ltd.

K. Rama Chandravathi

K. RAMA CHANDRAVATHI
STAMP VENDOR (LNO: 4199 R.L.No. 20/2006)
6-3-387, Beside Banjara Durbar Hotel, Panjagutta,
HYDERABAD - 500 082 Phone. No: 23351

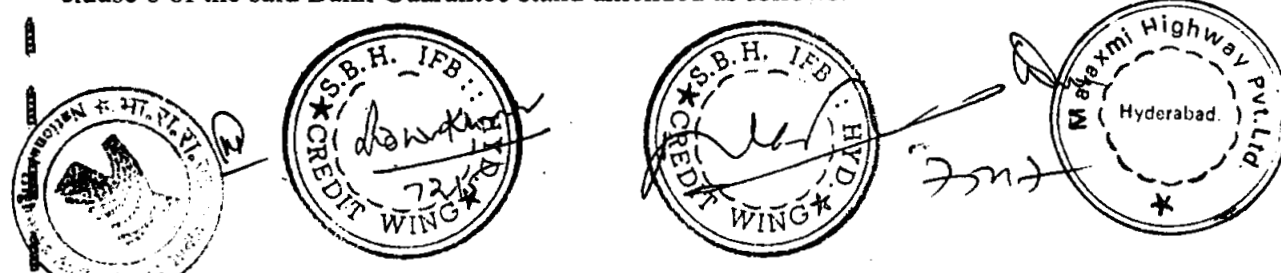
AMENDMENT TO BANK GUARANTEE NO.8520 dated 11th July 2006 AS PERFORMANCE SECURITY FOR Rs.5,26,34,000.00 ISSUED BY STATE BANK OF HYDERABAD ON BEHALF OF MALAXMI HIGHWAY PRIVATE LIMITED.

From : State Bank of India - Hyderabad
Industrial Finance Branch
Panjagutta,
HYDERABAD - 500 082.



To: National Highways Authority of India
(Ministry of Shipping, Road Transport and Highways)
Plot No. G-5 & 6, Sector - 10,
NEW DELHI - 110 075.

The following amendment is issued to State Bank of Hyderabad Guarantee No.8520 dated 11th July 2006 issued in favor of "National Highways Authority of India" for Rs.5,26,34,000.00 on behalf of Malaxmi Highway Pvt Ltd. Item 'c' in the "Recitals" and clause 8 of the said Bank Guarantee stand amended as follows:



Item "c" of Recitals shall be read as : "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.5,26,34,000/- (Indian Rupees Five Crores Twenty Six Lakhs and Thirty Four Thousand Only.) as security for compliance by the Concessionaire with its obligation under the Concession Agreement up to and including the Construction period".

Clause 8 of the above referred shall be read as: "This Guarantee shall be valid and effective up to 31.07.2007 for enabling NHAI to lodge a claim for payment under the Guarantee till the date of expiry of the term of the Guarantee. THE BANK shall be obliged to make payment upon the Guarantee forthwith on demand, if the claim is lodged within the claim validity period (i.e. 31.07.2007) and the obligation to pay is subject to normal limitation for payment of claims upon a guarantee. Time is essence for payment and in the event of failure to make payment in terms of this Bank Guarantee, THE BANK, shall be obligated to pay compound interest at 2% above the prime lending rate of THE BANK, compounding quarterly in the event of THE BANK'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".

Except as provided above all other terms & conditions of the Original Bank Guarantee No. 8520 dated 11.07.2006 for Rs 5,26,34,000/- (Indian Rupees Five crores twenty six lakhs thirty four thousands only) shall remain unaltered and binding. Please treat this as an integral part of the Original Bank Guarantee to which would be attached.

NOTWITHSTANDING any thing contained herein:

- a) Our Liability under this guarantee is Restricted to Rs 5,26,34,000/- (Indian Rupees Five crores twenty six lakhs thirty four thousands only)
- b) This Guarantee shall be valid up to 31st day of July, 2007.
- c) We are liable to pay the guaranteed amount or any part thereof under this guarantee only when you serve upon us a written claim or demand on or before 31.07.2007.

SIGNATURE

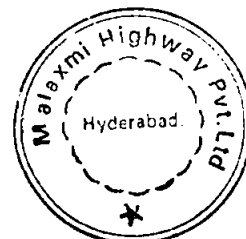
NAME

TITLE

DATE **23 SEP 2006**



N. Siva Prasad Reddy
SS No. 7547





STATE BANK OF HYDERABAD

Stamp

Industrial Finance Branch
HYDERABAD - Code - 703

To

From Mr. M. P. Sharma, (M.N.I.) EB/A No. 000476

National Highways Authority of India
Plot no. G-5 & 6, Sector-10,
Dwarka

New Delhi - 110075

Dear Sirs,

Extension Guarantee No. 8521
for Original Guarantee No. 8521
Extended for a period of 47 upto 31-01-2010
Last date for lodgement of claims 31-01-2010 under Extension Guarantee : *

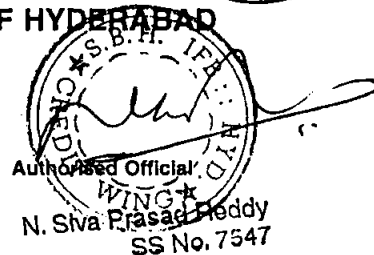
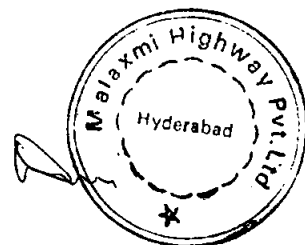
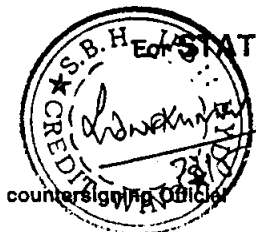
* (Both should have the same date)

We hereby inform you that the Guarantee No. 8521
Issued by us on 11-07-2006 for Rs. 7,89,51,000 and renewed till
(Please strike out, if not applicable)
shall stand extended upto 31-01-2010 with the

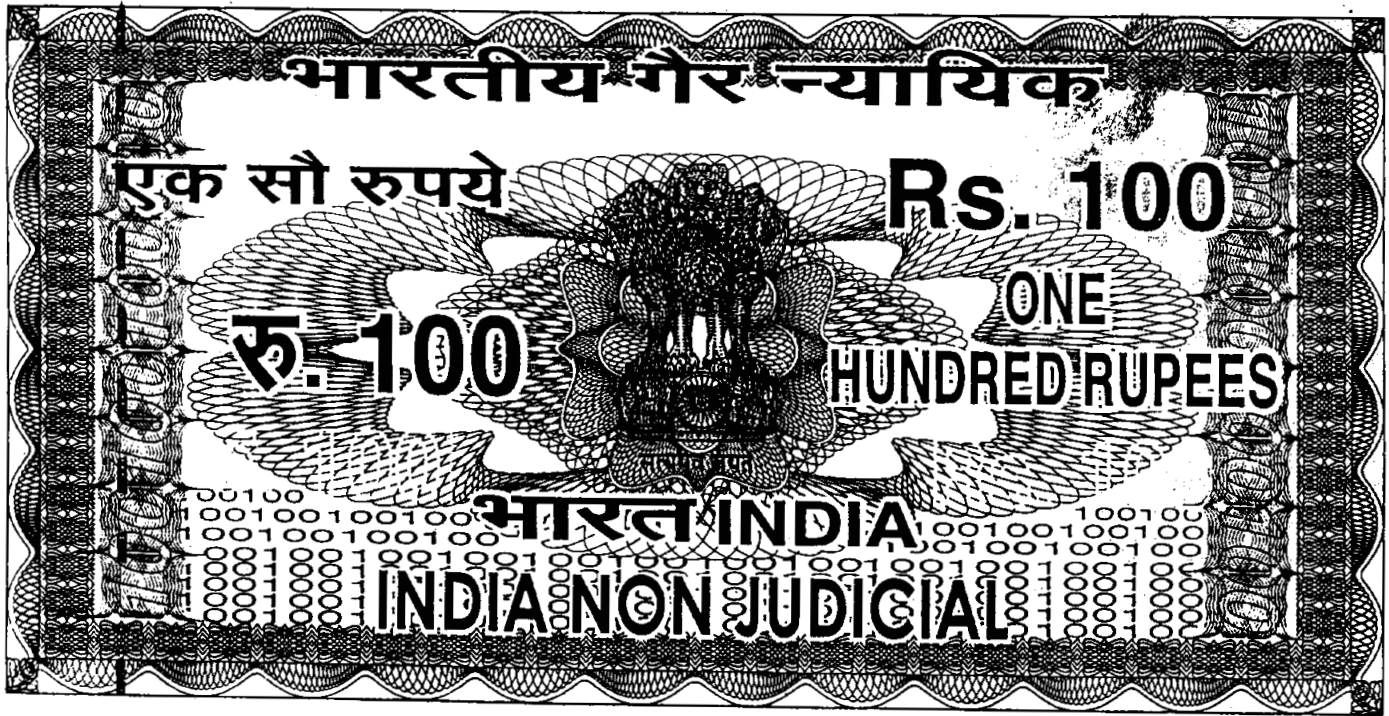
aforesaid date as the last date for receipt of the claim. and Item 'C' of the Schedule
and Clause 6 of the Original Guarantee Stand amended as per
All other terms and conditions as appearing in the original Guarantee shall apply to this
amendment.

Extension Guarantee and It shall be read with the original Guarantee.

Dated the 26th day of September 2006



Authorized Official
N. Siva Prasad Reddy
SS No. 7547



ఆంధ్ర ప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

C 175917

No. 95555 D 23/9/2006 Rs. 100/-

old To.....Srinivasa.....

No. /W/o /D/o.....Narayana Rao R/o Hyd

in Whom.....Mrs. nakshi.....Infrastructures pvt Ltd.

K. RAMA CHANDRAVATHI
STAMP VENDOR (L.No: 27/09 R.L.No. 20/2005)
8-3-387, Beside Banjara Durbar Hotel, Panjagutta,
HYDERABAD - 500 082 Phone. No: 23351799

**AMENDMENT TO BANK GUARANTEE NO.8521 dated 11th July 2006 AS
PERFORMANCE SECURITY FOR Rs.7,89,51.00 ISSUED BY STATE BANK OF
HYDERABAD ON BEHALF OF MALAXMI HIGHWAY PRIVATE LIMITED.**

From : State Bank of Hyderabad
Industrial Finance Branch
Panjagutta,
HYDERABAD - 500 082.

To: National Highways Authority of India
(Ministry of Shipping, Road Transport and Highways)
Plot No. G-5 & 6, Sector - 10,
NEW DELHI - 110 075.

The following amendment is issued to State Bank of Hyderabad Guarantee No.8521 dated 11th July 2006 issued in favour of "National Highways Authority of India" for Rs.7,89,51,000.00 on behalf of Malaxmi Highway Pvt Ltd. Item 'c' in the "Recitals" and clause 8 of the said Bank Guarantee stand amended as follows:



Item "c" of Recitals shall be read as : "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.7,89,51,000/-(Indian Rupees Seven Crores Eighty Nine Lakhs and Fifty One Thousand Only) as security for compliance by the Concessionaire with its obligation under the Concession Agreement upto and including the Construction period".

Clause 8 of the above referred shall be read as: "This Guarantee shall be valid and effective up to 31.01.2010 for enabling NHAI to lodge a claim for payment under the Guarantee till the date of expiry of the term of the Guarantee. THE BANK shall be obliged to make payment upon the Guarantee forthwith on demand, if the claim is lodged within the claim validity period(i.e. 31.01.2010) and the obligation to pay is subject to normal limitation for payment of claims upon a guarantee. Time is essence for payment and in the event of failure to make payment in terms of this Bank Guarantee, THE BANK, shall be obligated to pay compound interest at 2% above the prime lending rate of THE BANK, compounding quarterly in the event of THE BANK'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".

Except as provided above all other terms & conditions of the Original Bank Guarantee No. 8521 dated 11.07.2006 for Rs. 7,89,51,000/-(Indian Rupees Seven Crores Eighty Nine Lakhs and Fifty One Thousand Only) shall remain unaltered and binding. Please treat this as an integral part of the Original Bank Guarantee to which it would be attached.

NOTWITHSTANDING any thing contained herein:

- d) Our Liability under this gurantee is Restricted to Rs. 7,89,51,000/-(Indian Rupees Seven Crores Eighty Nine Lakhs and Fifty One Thousand Only)
- e) This Guarantee shall be valid up to 31st day of January, 2010.
- f) We are liable to pay the guaranteed amount or any part thereof under this guarantee only, and only when you serve upon us a written claim or demand on or before 31.01.2010.

SIGNATURE

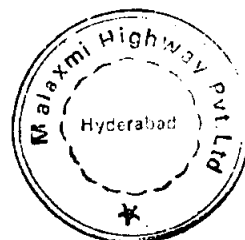
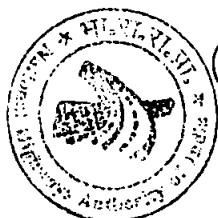
NAME

TITLE

DATE 26 SEP 2006



7/2/07



7/2/07