





2023

OUTCOME REPORT: PPP STRUCTURING TOOLKIT

ROAD & HIGHWAY 16 - 17 NOVEMBER, 2023

PREPARED BY:
INFRASTRUCTURE FINANCE SECRETARIAT
MINISTRY OF FINANCE
GOVERNMENT OF INDIA

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1. Background and Objective of the workshop

1.1. Background of the Workshop

India is undergoing a remarkable change and is one of the world's fastest growing economies. India is celebrating 'Azadi Ka Amrit Mahotsav' to mark 75 years of freedom and the rich heritage of its people, culture and achievements. Inspired by the idea of Aatmanirbhar Bharat and a vision of activating India 2.0, this initiative by the nation is a step towards achieving good governance, global peace and development. It is expected that the improvement of existing and the creation of modern infrastructure will lay a solid foundation for a new and 'Atmanirbhar Bharat'. The Honorable Prime Minister of India has set a bold goal of making India a developed nation by 2047.

In line with the views of the Honorable Prime Minister of India, Government of India is looking at the private sector as a partner in progress, to enhance Public Private Partnership (PPP) ecosystem and to ensure faster infrastructure development to improve public service delivery. This philosophy emphasizes the collaborative efforts of the public and private sector in utilizing optimal capacities and building more resilient partnership models. The stakeholder workshop titled – "PPP structuring Toolkit for Road & Highway Sector" was organized by the Infrastructure Finance Secretariat (IFS), Department of Economic Affairs (DEA), Ministry of Finance (MoF), especially focused on developing robust pipeline of the of road projects using the web-based PPP Structuring Toolkit. The objective of the workshop was to connect and collaborate with the stakeholders within the PSAs, over a two-day workshop and to listen to their views/ suggestions and the issues while implementing PPP projects. The event was attended by 70 participants from public and private sector institutions.

The workshop was organised at the India Habitat Centre in New Delhi, on 16th – 17th November 2023. The workshop commenced with an inaugural session by DEA Secretary Shri Ajay Seth, followed by walk through of the PPP structuring toolkit for road and highway sector. The participants completed a case study using the web-based toolkit.

PPPs have been able to deliver some of the most successful infrastructure projects in various sectors However, PPPs may not be suitable for all types of projects and many sectors have encountered problems with implementing PPP projects effectively. Thus, it is essential to identify that which project can be implemented on PPP mode particularly at an early stage so as to have the right approach from the beginning. To identify the suitable mode for implementation, DEA has developed the Toolkits to help improve decision-making for infrastructure PPPs in India and to improve the quality of structuring of the infrastructure projects implemented on PPPs in India.

The Toolkits are available for use by PPP practitioners across India on www.pppinindia.gov.in. It currently covers four sectors – Road & Highway, Water and sanitation, Port and Solid Waste Management respectively.

The Workshop was intended towards awareness building and guidance to use on these toolkits.

About toolkits

The Toolkit assists the PPP practitioners at all key stages of the PPP project cycle and improve the quality of the PPPs that are being developed. It facilitates identification, assessment, development, procurement and monitoring of PPP projects. The toolkit is structured to cover the full life cycle of PPP projects. The Toolkit contains the following 5 tools to strengthen decision-making for PPPs:

- Suitability filter: This is the key tool to test whether the project is suitable to be developed on PPP basis. It tests for qualitative factors that have an impact on the ease or challenges of developing a project on PPP basis. It provides Go/ No Go decision for the project to be implemented on PPP. This tool also acts a preliminary qualitative value for money tool.
- Family indicator: Family indicator tools help to identify the appropriate PPP family that the project may be best fit. The tool uses a decision tree to assist the PSA in identifying the PPP family.
- Mode validation: The mode validation is based on the risk profile of the project.
- o **Financial viability indicator**: Financial viability indicator examines the viability of the project with returns on various PPP modes.
- Value for money indicator: VFM tool helps to examine whether the project provides for value for money if structured as a PPP project.

Contingent liability toolkit was also presented in the workshop. The toolkit has been developed to assist Project Sponsoring Agencies (PSAs) in assessing the amount of financial liability arising from a PPP project. It is also expected to aid PSAs in making informed decisions regarding the financial payout to Concessionaire as a result of occurrence of unforeseen events.

1.2. Workshop Objectives

The workshop was strategically planned to serve as a platform to give walkthrough of the PPP structuring toolkit and Contingent Liability toolkit to the participants. The workshop also provided an opportunity to showcase various guidance material developed by the Department of Economic Affairs (DEA), Ministry of Finance, Government of India. This workshop was first in the series. This workshop was designed for such practitioners and focused on building awareness, usability and providing direction to the Project sponsoring authorities and their officials for maximizing the use of these toolkits in developing PPP Projects.

The workshop also provided an opportunity to the participants to develop a project based on a case study of **Road & Highway sector** using the tools of the toolkit. It gave them hands on experience to learn the usage of the toolkit.

At the same time, the workshop provided an excellent opportunity to seek suggestions for improvements in the toolkits.

A total of **260** user logins have been created for the PPP Structuring toolkit as of 20 November 2023.

2. Summary of the workshop

2.1. Workshop Schedule

The detailed agenda of the workshop is provided below:

Day	Timing	Details	Presenter
Day 1	1000 – 1030	Registration & Tea	
	1030 - 1045	Inauguration by Secretary DEA	Shri Ajay Seth
	1045 – 1100	Context setting	Shri Antony Cyriac, Adviser, (CBU), DEA Ms. Preeti Jain, Director, ISD, DEA
	1100 – 1130	Introduction of the participants, their expectation from the workshop	Participants
	1130 – 1215	Introduction of PPP structuring toolkit (Objectives, sectoral coverage, modules etc.)	Ms. Arya B Kumari, Deputy Director, ISD, DEA
Session I	1215 – 1245	Walkthrough of Tool 1: Suitability filter	Ms. Puja Sharma, PPP Expert, ADB Consultant
	1245 – 1315	Case study	Ms. Puja Sharma PPP Expert, ADB Consultant
	1315 – 1400	Lunch Break	
Session II	1400 – 1500	Walkthrough of the Tool 2: Family mode and Tool 3: Mode selection tool	Ms. Arya B Kumari, Deputy Director, ISD, DEA
	1500 – 1530	Case study	Ms. Puja Sharma, PPP Expert, ADB Consultant
Session III	1530 – 1600	Financial Viability Indicator Tool	Ms. Puja Sharma, PPP Expert, ADB Consultant

Day	Timing	Details	Presenter
	1600 – 1630	Tea Break	
	1630 – 1700	Q & A session	
Day 2	0915 – 0945	Теа	
Session III	1000 – 1130	Financial Viability indicator tool	Ms. Puja Sharma, PPP Expert, ADB Consultant
	1130 – 1230	Case Study	Ms. Puja Sharma, PPP Expert, ADB Consultant
	1230 – 1330	Lunch Break	
Session IV	1330 – 1400	Value for money indicator tool	Ms. Puja Sharma, PPP Expert, ADB Consultant
Session V	1400 – 1545	Contingent liability toolkit	Ms. Nikita Chhabra, KPMG, Consultant
	1545 – 1615	Теа	
	1615 – 1630	Q & A session	
	1630 – 1645	Vote of thanks and next steps	Ms. Preeti Jain, Director, ISD, DEA

The Workshop was inaugurated by Secretary DEA, Shri Ajay Seth with a context setting note delivered by the Shri Anothony Cyriac, Adviser, Capacity Building Unit and Ms. Preeti Jain, Director, Infrastructure Support and Development (ISD) Division, DEA in which he highlighted the potential in PPPs and the importance of structuring of the projects before it is sent for appraisal and approval.

2.2. Coverage of the workshop

The workshop was attended by officers of PSA who are associated with the Road & highway sectors. The Workshop witnessed active participation of more than **70** participants through hybrid mode from Central Infrastructure Line Ministries and Departments including Department of Expenditure, NITI Aayog, MoRTH and CII. 16

States and UT including Telangana, Mizoram, Gujarat, Andhra Pradesh, Delhi, Arunachal Pradesh, Rajasthan, Kerala, Ladakh, Uttarakhand, Karnataka, Madhya Pradesh, West Bengal, Maharashtra, Tripura and Uttar Pradesh participated in the workshop.

The detailed list of participants, both online and offline is given in **Annexure B**.

2.3. Suggestions & feedback from participants

Each session was followed by a Q&A session, where both online and physical participants

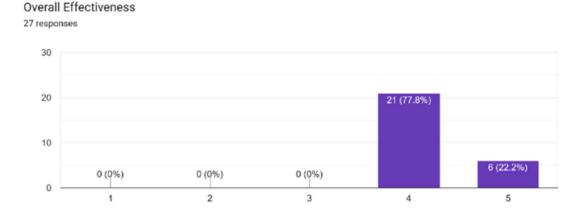
shared their experiences with PPP projects, toolkits and extended suggestions to enhance the utility and awareness about the toolkits. At the end of workshop on November 17, 2023, an online feedback form was circulated to all participants to seek their feedback related to all sessions of the workshop. Feedback was sought with respect to the content, quality of delivery, satisfaction level, etc. aspects of the workshop. As on 01 December, a total of 26 responses have been received.

Subsequent section highlights the feedback received from the participants. The feedback was sought on the scale of 1 to 5 where 1 indicate low score and 5 indicate high score. Summary of the feedback is presented below

2.3.1. Overall feedback on the workshop

Figure 1 and Figure 2 below highlights the 'Level of satisfaction of participants' and 'Interest for participating in similar workshops in future'.

Figure 1: Scoring on overall effectiveness of the workshop

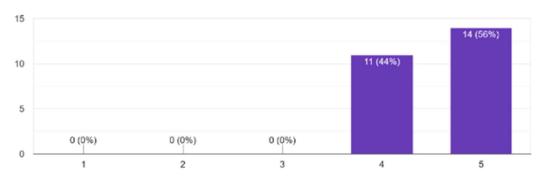


Workshop was rated effective by all the respondents. The participants also provided feedback to have more such workshops in the states and choose the participants from the field.

Figure 2: Overall workshop managment feedback

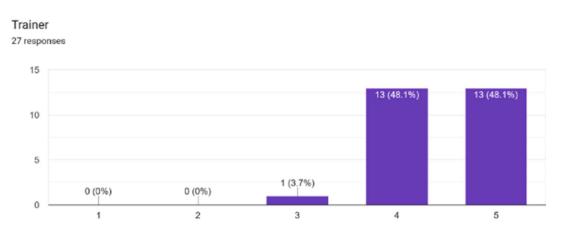
Overall Management

25 responses



The participants rated overall management of the workshop on a rating of 4 or 5 indicating that participants found the workshop and related infrastructure conducive and useful.

Figure 3: Feedback on trainier



~96% of the participants rated the trainer's effectiveness and delivery on a scale of 4 and 5. They were happy with the speed, content and delivery aspect of the trainer.

Figure 4: Feeback on contextual relevance

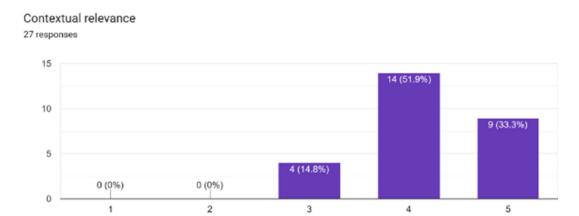
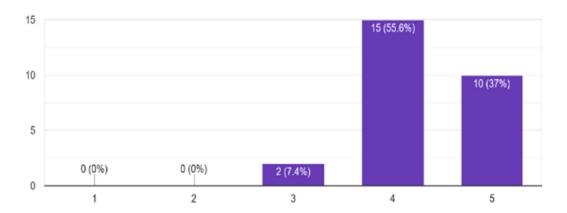


Figure 5: Design and selection of Topics

Design and selection of Topics

27 responses

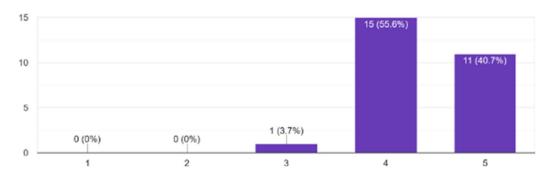


All the respondents to the feedback survey were happy with the contents of the workshop. They found it relevant and in line with their work.

Figure 6: Professional usage of toolkit feedback

Professional usefulness

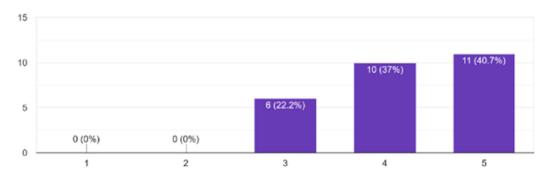
27 responses



All the respondents found the content to be useful in their profession. 96% of respondents rated the workshop content on a scale of 4 and 5 for their professional usage.

Figure 7: Feedback on using toolkit for project appraisal

Will you be using the toolkit for appraising the projects received by your department? 27 responses

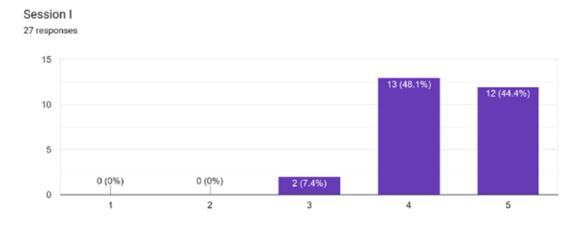


Respondents were keen on using the toolkit to appraise the projects in their departments using the toolkits as a resource available to them.

2.3.2. Feedback on individual sessions

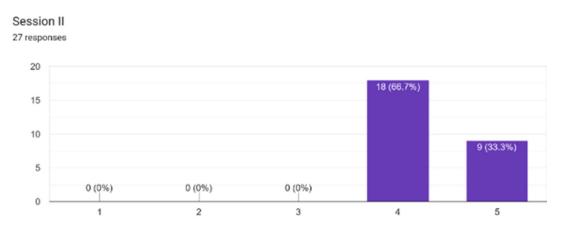
The participants were requested to share the feedback on four critical aspects of each of the session. The section below highlights the feedback.

Figure 8: Suitability Filter tool



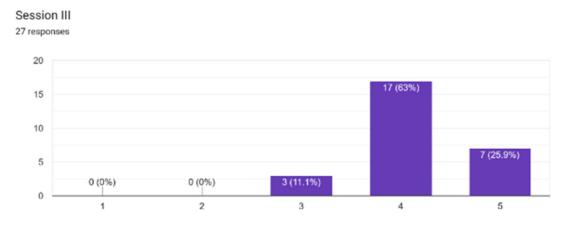
~95% and above respondents rated the session I between 4 and 5 scale. They rated the session as effective.

Figure 9: Family Indicator & Mode validation tool



All the respondents rated the session II between 4 and 5 scale. They rated the session as effective and liked the quality of delivery of the session.

Figure 10: Financial viability indicator tool



~88% respondents were extremely satisfied with the case study used to learn the financial viability tool.

Figure 11: Value for money indicator tool

Session IV 27 responses 20 15 10 10 (37%)

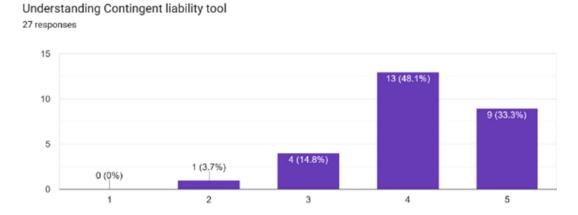
~95% respondents were extremely satisfied with the learning of Value for money indicator tool.

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Figure 12: Feedback on Contingent liability tool

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~95%+ respondent was satisfied with the delivery and understanding of the Contingent Liability Toolkit. They have rated the session on a scale of 4 and 5 respectively.

2.4. Key Takeaways and Feedback received



- Use of Structuring Toolkit
- Learnt Economic analysis of the project
- Importance of assessing proper viability of the project
- Understood Project feasibility(financial) to attract investors.
- Knowing the unknowns or narrowing down the uncertainties are keys to sound appraisal of projects. Workshop of this kind where tested and successful toolkits are exposed to stakeholders will act as enabler to realize this end.
- Assessment of viability of project using respective tool kit is going to be quite useful in initial decision making. However, it requires a deeper understanding of its working.
- This toolkit used to assess soundness of a PPP project, can also be used in govt funded projects for cost optimization and time with little customisation. Today in govt projects, we generally see an ecosystem of lackadaisical attitude of players, resulting in cost and time overrun with no commensurate quality and life of assets so created.

2.5. Suggestion for improvement

Some of the key suggestions received from participants during the workshop and through feedback form are as follows:

- Initial briefing of concept and terminologies involved in PPP and then go for a walkthrough the tool kit.
- Extend the coverage of PPP toolkits for other sectors: Participant requested that these tools should be customised and extended for other sectors and subsectors also such as hydel sector project
- Programme should have One week program to get more exercise on case studies.

- Workshops to be conducted at state and UT level to greater reach to the persons dealing with PPP.
- Access to training Video and materials: participants indicated that they would like to have access to training workshop video and presentation slides for future reference.
- Participants should be provided with the workshop learning materials in advance, online or otherwise, with instructions to familiarize with the subject materials.
- More hands-on training using excel sheet. Financial viability tool could have been more elaborate.

2.6. Vote of Thanks

The workshop was concluded with Vote of Thanks from Ms. Preeti Jain, Director, Department of Economic Affairs, Ministry of Finance, Government of India. On behalf of Private Investment Unit (PIU) - DEA, Ms. Preeti Jain thanked to honourable Secretary EA, Shri Ajay Seth, Adviser, CBU Shri. Antony Cyriac who had taken time out of their busy schedule to inaugurate and contribute to the workshop and Shri. Baldeo Purushartha, Joint Secretary,



Figure 13: Director DEA addressing the particpants

(ISD), DEA, Ministry of Finance who was the driving force behind development of these toolkits. Ms. Preeti Jain thanked Deputy Director Arya Balan Kumari and Consultant Puja Sharma for their important role in the revamping the PPP Structuring toolkit. She also thanked Ms. Nikita Chhabra for presenting the Contingent Liability toolkit. She also expressed her gratitude and well wishes to all the participants joining physical and virtually from various central ministries, state departments, Public Sector Undertakings, etc. for their active participation and contributions to the discussions. Ms. Preeti Jain acknowledged and appreciated the feedback and the suggestions from the participants and indicated that DEA is already in process of incorporating many of the suggestions and feedback received.

Ms. Preeti Jain concluded the workshop highlighting that DEA will continue to organise a pipeline of workshops which could support government institutions in improving their decision making for PPP projects and expect better usage of these toolkits.

Appendix A - Snapshots of the workshop

Following are the glimpse of the workshop:

Figure 14: Inaugration of workshop. Ms. Balan welcoming the Secretary DEA, Shri Ajay Seth, Adviser CBU, Shri Antony Cyriac and Director, ISD Ms Preeti Jain



Figure 15: Secretary DEA lighting lamp





Figure 16: Inaugral Address by Secretary DEA, Shri Ajay Seth





Figure 18: Day 1 Ms. Balan presenting Overview of PPP structuring toolkit



Figure 19: Day 1 Session I presentation by Ms. Puja Sharma







Figure 21: Day 2 Session III presentation by Ms. Puja Sharma







Figure 23: Day 2 Ms. Nikita Chhabra presenting Contingent liability toolkit



Workshop on
PPP Structuring

16 - 17 November, 2023

Infrastructure Finance S
Department of Econom
Ministry of Finan

PPP Structuring
Toolkit

16-17 November, 2023

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Figure 24: Dr Kartik Agrawal presenting VGF, IIPDF and other schemes of DEA

Appendix B - Participants List

	List of Physical participants			
S. No.	Full Name of Participant	Designation	Name of the Organization/Firm	
Participants	from Department of Econor	mic Affairs		
1.	Ms. Preeti Jain	Director	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance	
2.	Sh. Manoj Kumar Madholia	Joint Director	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance	
3.	Sh. R Shiva Kumar	Deputy Secretary	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance	
4.	Dr. Kartik Agrawal	Deputy Director	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance	
5.	Ms. Arya Balan Kumari	Deputy Director	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance	
6.	Sh. Madhav Jha	Section Officer	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance	
7.	Sh. Rajender Singh	Section Officer	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance	
8.	Ms. Puja Sharma	Consultant, PPP Expert	Asian Development Bank	
9. ;				
10.	Sh. Haider Saikh	Consultant, Finance Expert	Asian Development Bank	
11.	Sh. Sunny Goel	Consultant	Asian Development Bank	

	List of Physical participants			
S. No.	Full Name of Participant	Designation	Name of the Organization/Firm	
12.	Sh. Dhruv Rohatgi	OSD	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance	
13.	Sh. Gaurav Jumrani	Consultant	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance	
14.	Ms. Nikita Chhabra	Consultant	KPMG	
15.	Sh. Amritesh	Consultant	KPMG	
16.	Sh. Rahul Agrawal	Consultant	KPMG	
17.	Sh. Shubham Varun	Stenographer	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance	
18.	Sh. Anurag Choudhary	DEO	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance	
19.	Sh. Anup Kumar	MTS	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance	

	List of Physical participants - PSA			
S. No.	Full Name of Participant	Designation	Name of the Organization/Firm	
Particip	Participants from States/ Line Ministries			
20.	Shri Rakesh Kumar	Deputy Director	NRIDA, M/o Rural Dvt.	
21.	Shri Amit Bhardwaj	Deputy. Adviser	NITI Aayog, Government of India	
22.	Shri. Tanuj Kamboj	Executive Engineer	PWD, Uttarakhand	
23.	Shri A V Vishwa Kumar	Joint Director, Road Research Station (Executive	O/o The Engineer-in Chief (R&B), Erramanzil,	

	List of Physical participants - PSA			
S. No.	Full Name of Participant	Designation	Name of the Organization/Firm	
Particip	oants from States/ Line M	inistries		
		Engineer(R&B)	Hyderabad	
24.	Shri C Lalsawmliana	Superintending Engineer	Power & Electricity Department, Govt. of Mizoram	
25.	Shri Daniel Lalrempuia	Sr Executive Engineer	Power & Electricity Department, Govt. of Mizoram	
26.	Shri NIMIT PATEL	GENERAL MANAGER	Gujarat Infrastructure Development Board (GIDB)	
27.	Priyanka Kumar	Senior Manager (Projects)	Gujarat Infrastructure Development Board (GIDB)	
28.	Shri Ranganath Audam	Deputy Director	D/o Expenditure	
29.	Shri Tanveer Ahmad Khan	Assistant Director	D/o Expenditure	
30.	Shri T. Raja Srinivasa Reddy	Assistant Director	Finance Dept. Govt. of Andhra Pradesh	
31.	Shri Akash Bansal	IAS, ADC (Rural Development)	Dept. of Rural Dvt, M/o Rural Dvt.	
32.	Shri ADO BURANG	SUPERINTENDING ENGINEER	PwD, Govt. of Arunachal Pradesh	
33.	Shri B. MUGUNTHAN	EXECUTIVE DIRECTOR/FINANCE	Ircon International Limited, GoIU, M/o Railway	
34.	Shri Lalbiaknunga	Sr. Executive Engineer	PwD Dept., Govt. of Mizoram	
35.	Shri Samuel Ramdinthara	Senior Executive Engineer	PwD Dept., Govt. of Mizoram	
36.	Shri V L Dhankar	Member	Rajasthan State Highway Authority	
37.	Shri Vinay Kr Gupta	GM Tech (RSHA)	Rajasthan State Highway Authority	
38.	Shri Hibu Tadey	Executive Engineer	PwD Dept., Govt. of Arunachal Pradesh	
39.	Ms. LATHIKA P	Section officer	Finance Department, Government Secretariat, Thiruvananthapuram	
40.	Ms. N Sreelatha Sukumaran	Additional Secretary	Finance Department, Government Secretariat,	

	List of Physical participants - PSA			
S. No.	Full Name of Participant	Designation	Name of the Organization/Firm	
Particip	oants from States/ Line M	inistries		
			Thiruvananthapuram	
41.	Shri. Tsewang Thinglas	Executive Engineer	Executive Engineer of Pradhan Mantri Gram Sadak Yojna, Ladakh	
42.	Shri. Michael M D'Souza	Administrative Secretary	Administrative Head of the Public Works (Roads & Buildings) and Public Health Engineering/Irrigation & Flood Control Department of the UT of Ladakh.	
43.	Shri. Dorjay Gyatso	Superintending Engineer	Public Works (Roads & Buildings) Circle, Leh. District head of Public Works (Roads & Buildings) of Leh District.	
44.	Shri. Hibu Tadey	Executive Engineer	PWD Department in Tawang District of Arunachal Pradesh.	
45.	Sh. R.C. Pandey	Assistant Engineer	PwD, Govt. of Uttarakhand	
46.	Sh. B.S. Chathrapathy	AEE, KRDCL	PwD, Government of Karnataka	
47.	Sh. Y.S. Murthy	AEE, KRDCL	PwD, Government of Karnataka	
48.	Sh. Suresh R.	AEE, NH Sub Division, Shimoga	PwD, Government of Karnataka	
49.	Sh. Ningappa N.	AEE, NH Sub Division, Shimoga	PwD, Government of Karnataka	
50.	Shri Raj	Chief Engineer	UPEIDA, GoUP	
51.	Nissar Ahmad Mandloo	Deputy Director	Planning Development & Monitoring Department, Govt. of J&K	
52.	Sh. Akhilendra Pratap	Chief Engineer	PwD, Uttar Pradesh	
53.	Sh. Rittwik Bhattacharyya	Research Assistant	Transformation And Development Department, Govt. of Assam	
54.	Shri Anirban Acharyya	Executive Engineer	Quality Control and Gati Shakti Cell, Ministry of road	

	List of Physical participants - PSA			
S. No.	Full Name of Participant	Designation	Name of the Organization/Firm	
Particip	oants from States/ Line M	inistries		
			Transport & Highways	
55.	Shri Nazim Khan	Assistant Executive Engineer	BP&SP Cell, Ministry of road Transport & Highways	
56.	Shri K.D. Singh Gaur	Divisional Transport Officer	Transport Department, GoUP	
57.	Shri Rajeev Kumar Bansal	Assistant Divisional Transport Officer	Transport Department, GoUP	
58.	Shri Divyansh Srivastava	Executive Officer	CII Infra / Road & Highway	
59.				

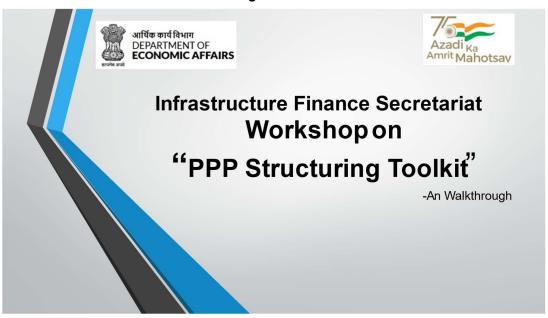
	List of Online participants			
S. No.	Full Name of Participant	Designation	Name of the Organization/Firm	
Particip	ants from States/ Line Mir	nistries		
1.	Ms. Ranjana Saini	Asst. Director	NRIDA, M/o Rural Dvt.	
2.	Ms. Amrita Singh	Officer On Special Duty Finance Department	Finance Dept., Govt. of W.B.	
3.	Shri. Anil Shukla	Joint Secretary	Finance Dept., Govt. of W.B.	
4.	Ms. Vandana Dixit	Jr. Account Officer	PPP Cell, Directorate of Institutional Finance, MP	
5.	Ms. K R Devika	Executive Engineer	PPP Cell, IDD, Bengaluru, Govt of Karnataka	
6.	Shri. Sk. Hasanuj Jaman	Executive Engineer	P.W. D, West Bengal	
7.	Shri. Chetram Koli	Consultant, HEAD – PMU	DEPARTMENT OF HIGHER EDUCATION, MINISTRY OF EDUCATION	
8.	Shri. C. Ravindranath	Superintending Engineer, NH, Bangalore	PwD, Government of Karnataka	
9.	Ms. Rinaj Pathan	Superintending Engineer	Pune Metropolis, Maharashtra	
10.	Shri. Arindam Chakraborty,	TES Grade-III, Executive Engineer	PwD, Government of Tripura	

	List of Online participants			
S. No.	Full Name of Participant	Designation	Name of the Organization/Firm	
Particip	ants from States/ Line Mir	nistries		
11.	Shri Rupak Das	TES Grade-IV, Assistant Engineer	PwD, Government of Tripura	
12.	Shri. Farooque Sayeed Nasser	General Manager, Projects – Western Region	Power Finance Corporation Ltd.	
13.	Ms. Soumya Panigrahi	Assistant Manager, Projects – Western Region	Power Finance Corporation Ltd.	
14.	Shri GAGANDEEP	Manager, IPP & New Business Unit	Power Finance Corporation Ltd.	
15.	Shri Arun Kumar Choudhary	Scientist	MNRE	
16.	Shri Pranab Nanda	Senior Manager (PROJECTS)	Gujarat Infrastructure Development Board (GIDB),	
	Lis	t of Online participants		
S. No.	Full Name of Participant	Designation	Name of the Organization/Firm	
Particip	ants from Private Sector			
1.	Shri. K.B. Anitthaasree	M. Arch in Building management	Tamil Nadu	
2.	Shri. Riyas K Basheer	Consultancy support to Government/Quasi Government Organisations	Kerala	
3.	Shri. Vijay Patil	Assistant Highway Engineer	Pune, Maharashtra	
4.	Shri. Tushar Deochakke	Founder and President of a Real Estate & Infrastructure Exchange at GIFT City	Gujarat	
5.	Shri. Ashwini Kumar Shrivas	Entity Appraisal	PPP Cell, IDD, Bengaluru, Govt of Karnataka	
6.	Ms. Deepti Arora	CA	Manesar, Haryana	
7.	Ms. Surabhi	Student	Lucknow	
8.	Shri. Pranab Nanda	Superintending Engineer, NH, Bangalore	PwD, Government of Karnataka	
9.	Ms. Pucha Tejaswi	Superintending Engineer	Pune Metropolis, Maharashtra	
10.	Dr. D.Sreenivasa Chary	TES Grade-III, Executive Engineer	PwD, Government of Tripura	

	List of Online participants			
S. No.	Full Name of Participant	Designation	Name of the Organization/Firm	
Particip	ants from Private Sector			
11.	Shri. Bhargav	TES Grade-IV, Assistant Engineer	PwD, Government of Tripura	
12.	Shri. Aditya Prakash Mamdapure	General Manager, Projects – Western Region	Power Finance Corporation Ltd.	
13.	Shri. Gadhiya Harshkumar Sureshbhai	Assistant Manager, Projects – Western Region	Power Finance Corporation Ltd.	
14.	Shri. Vignesh R M	Manager, IPP & New Business Unit	Power Finance Corporation Ltd.	
15.	Shri. Dhirendra Singh	Scientist	MNRE	
16.	Shri. Ravi Subramaniam	Adviser	Chennai	
17.	Ms. Roopali Srinivas	Student	Bangalore	
18.	Ms. Ramadevi Ankusu	Teacher	Visakhapatnam	
19.	Ms. Keerthana Ramesh	Student	Hyderabad	
20.	Shri. Brahmareddy Desireddy	Associate Professor	New Delhi	
21.	Ms. Mariya Saleh	Director	The Plaza, 23 Ibrahim Tahir Lane, Utako, Abuja	
22.	Shri. R N Goel	Adviser	Lucknow	
23.	Shri. Rajeev Chadha	Advisor (PPP & Infrastructure Finance)	Gurgaon	
24.	Ms. Sritik K Sinha	Associate Vice President	New Delhi	
25.	Shri. A Vinoth Kumar	External Consultant	IIHS, Tamil Nadu	

Appendix C - Presentation on PPP structuring toolkit and Contingent liability toolkit

• Presentation of PPP structuring toolkit

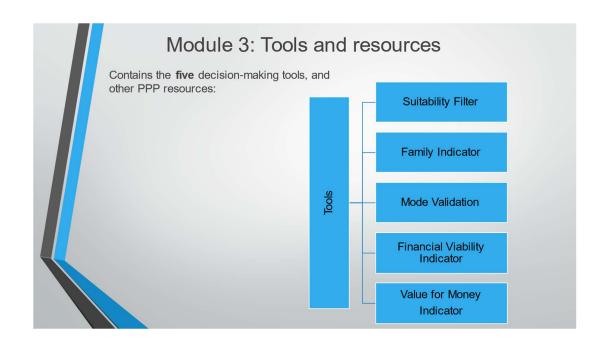


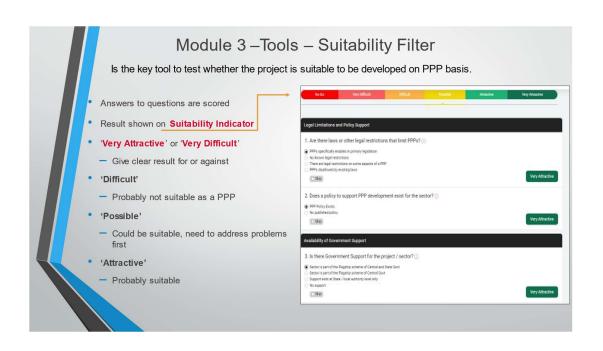
Instruction for the workshop

- Be on time
- Keep your phones on silent
- If you have a doubt, raise hand
- Lets make the workshop interactive
- Be responsive and present
- Collaboration is must

Day	Timing	Details	Presenter
Day 1	1000 - 1030	Registration & Tea	
	1030 - 1045	Inauguration by Secretary DEA	Shri Ajay Seth
	1045 – 1100	Context setting	Shri Antony Cyriac, Advised (CBU), DEA
			Ms. Preeti Jain, Director (ISD),DEA
	1100 – 1130	Introduction of the participants, their expectation from the workshop	Participants
	1130 – 1215	Introduction of PPP structuring toolkit (Objectives, sectoral coverage, modules etc)	Ms. Arya B Kumari
Session I	1215 - 1245	Walkthrough of Tool 1: Suitability filter	Ms. Puja Sharma
	1245 – 1315	Case study	Ms. Puja Sharma
	1315 – 1400	Lunch Break	
Session II	1400 – 1500	Walkthrough of the Tool 2: Family mode and Tool 3: Mode selection tool	Ms. Arya B Kumari
	1500 - 1530	Case study	Ms. Puja Sharma
Session III	1530 – 1600	Financial Viability Indicator Tool	Ms. Puja Sharma
	1600 – 1630	Tea Break	
	1630 - 1700	Q & A session	

	Timing	Details	Presenter
Day 2	0915 – 0945	Tea	
Session III	1000 – 1130	Financial Viability indicator tool	Ms. Puja Sharma
	1130 – 1230	Case Study	Ms. Puja Sharma
	1230 – 1330	Lunch Break	
Session IV	1330 – 1400	Value for money indicator tool	Ms. Puja Sharma
Session V	1400 – 1545	Contingent Liability toolkit	Ms. Nikita Chhabra
	1545 – 1615	Tea	
	1615 – 1630	Q & A session	
	1630 – 1645	Vote of thanks and next steps	Ms. Preeti Jain



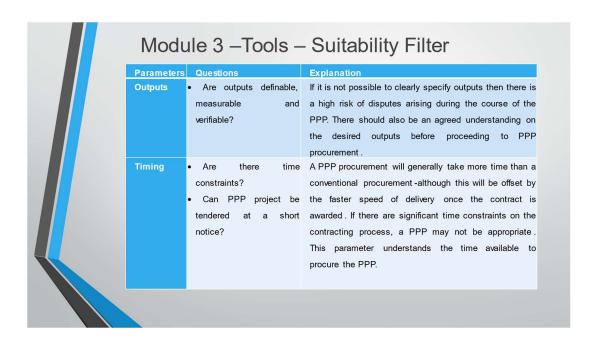


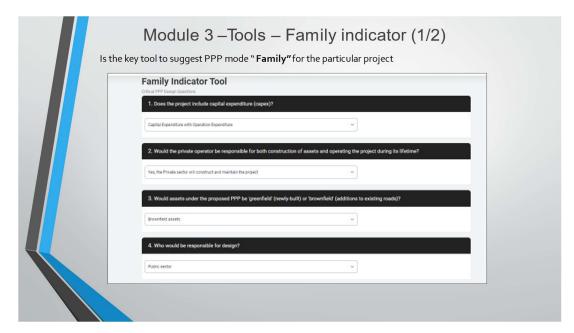


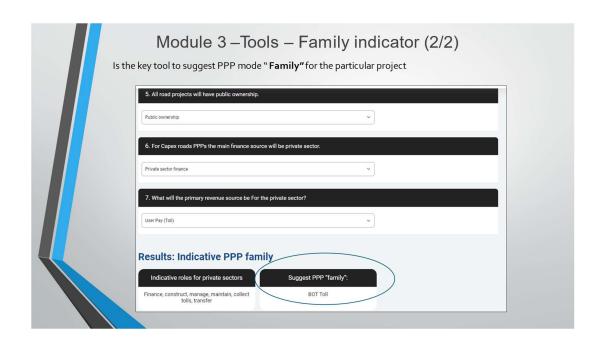
Paramete	S Questions	Explanation
Legal	 Are there laws or other legal restrictions that limitPPPs? Does a policy for private participation in the sectorexist? 	understand if the law permits the
Political	 Is there Political Support for the sector/project? Is there support of PPP in the affected communities? 	·
Public sec	tor • Is there a PPP Unit/Deptin the State?	This parameter analyses PSAs capacity to
PPP capac	ity • Does the Public SponsoringAgency have the	execute and implementPPP project
and	capabilitiesto procurePPPs?	
experienc	 Does the Sponsoring Agency have the capabilities to manage and monitor a PPP contract? Does the Sponsoring Agency have previous experiencewith PPPs? Would the physical infrastructure pass through 	

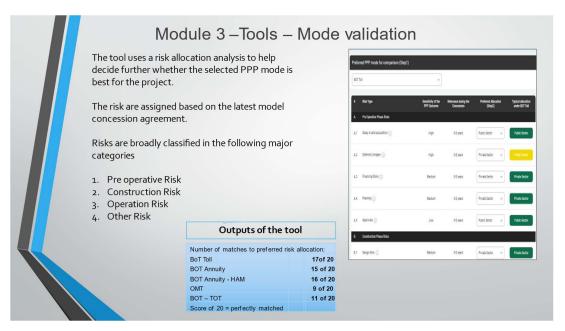
Module 3 -Tools - Suitability Filter Parameters Questions Explanation • Is funding assistance available for project This parameter helps in understanding development? difference funding options that may be • Is the project likely to be eligible for available for development of the Viability Gap Funding? project to the PSA. for PPPs Is the project likely to be eligible for funding from other grant schemes? Is the project eligible for funding / guarantees from multi-lateral agencies? Are multiple firms active in the PPP These parameters assess private sector participation and interest in the Have other similar PPP projects reached PPP projects in the chosen sector Financial Close?

Parameters	Questions	Explanation
Land availability and acquisition	 Will the PPP require land acquisition? If land acquisition is required, will the public sector do this? 	These parameters assess the land requirement and potential issues related to acquisition of land for the project and their impact on the project timelines.
Environmental and Social	 Will the PPP have significant environmental impacts? Will the PPP have significant social impacts? 	These parameters assess the impact of the project on Environment and social factors related to it.
Labour		









Risks	Description
Pre-Operative Phase Risks	
Delay in land acquisition	Refers to the risk that the project site will be unavailable or unable to be use
	within the required time, or in the manneror the cost anticipated or the site wi
	generateunanticipatedliabilitiesdue to existing encumbrancesand native claim
	being made on the site.
External linkages	Refers to the risk that adequate and timely connectivity to the project site is no
	available, which may impact the commencement f construction and the overa
	pace of developmentof the project Eg. Road'sconnectivity to the projects ite.
Financing risks	Refers to the risk that sufficient finance will not be available for the project at
	reasonable cost (e.g., because of changes in market conditions or cred
	availability)resultingin delays in the financialclosureof a project
Planning risks	Refers to the risk that the pre-developments tudies (technical, legal, financial, and
	others) conducted are inadequate or not robust enough resulting in possib
	deviations from the planned or expected outcomes in the PPP project
	development
Approval risk	Refers to the risk that necessarypermits, authorisations and approvals require
	before the start of constructionare not obtained in a timely fashion, resulting in
	delays to constructionand the projectas a whole

Risks	Description
Construction Phase Ris	sk
Design risk	Refers to the risk that the proposeddesign will not meet the performancean service requirements in the output specification it can result in additional costs for modification and redesign
Construction risk	Refers to the risk that the construction of the assets required for the project will not be completed on time, within budget, or to specification It may lead to addition raw materials and labour costs, an increase in the cost of maintaining existing infrastructure or providing a temporary alternative solution due to a delay in the provision of the service.
Approval risk	Refers to the risk that delays in approvals to be obtained during the construction phasewill resultin a delay in the construction of the assets as per the construction schedule Such delays in obtaining approvals may lead to cost overruns.

Risks	Description
Operation Phase risk	
Technology risk	Refers to the risk that the technology used will be unexpectedly superseder
	during the term of the project and will not be able to satisfy the requirements in the
	output specifications It would result in increased costs of replacementechnology
Operations and maintenance	Refers to the risks associated with the need for increased maintenance of the
risk	assetsover the term of the projectto meetperformance requirements
Volume / Demand risk	Refers to the risk that demandfor service will vary from that initially projected
	such that the total revenue derived from the project over the project term will vary
	from initial expectations. There is no risk in annuity contracts for the private sector
Paymentrisk	Refers to the risk that tolls are not collected in full or are not set at a level that
	allowsrecovery of costs. This is a risk for the publics ector under shadow tolls and
	for the private sectorunderusertolls. There is no risk in annuity contracts.
Financial risk	Refers to the risk that the private sector overstressesa project by inappropriate
	financialstructuring It can resultin additionalfunding costs for increased margins
	or unexpected refinancing costs.
Handover risk	Refers to the risk that the concessionaire will default in the handover of the asse
	at the end of the project term or will deviate from the minimumquality/value of the
	assetthat needs to be handedback to the publicentity.

	Risks	Description
	Other risks	Description .
	Change in law	Refers to the risk that the current legal/regulatoryregime will change, having a materialadverseimpacton the project
	Force Majeure	Refers to the risk that events beyond the control of either entity may occur, resultingin a materialadverse impacton either party's ability to perform its obligationsunder the PPP contract E.g.: pandemics strikes, act of war.
	Sponsor risk	Refers to the risk that the Public SponsoringAuthority will prove to be an unsuitable partner for the project, for example, due to poor project managementor a failure to fully recognise the agreed terms of the Concession
	Concessionaire event of	Refers to the risk that the private entity will not fulfil its contractual obligations and that
	default	the Public Sponsoring Authority will be unable to either enforce those obligations against the sponsorsor recover some form of compensationor remedy from the sponsorsfor any loss sustained by it as a result of the breach or the private partner will prove to be inappropriate or unsuitable for delivery of the project
	Authority event of default	Refers to the risk that the Public SponsoringAuthority will not fulfil its contractual obligations and that the Concessionairewill be unable to either enforce those obligationsagainst the Authority or recover some form of compensationor remedy

A	PRE-OPERATIVE 1	TASK RISKS				
		.,				
A.1	Delays in land acquisition	Public Sector	Public Sector	Public Sector	Not Relevant	Not Relevan
A.2	External linkages	Public Sector	Public Sector	Public Sector	Not Relevant	Not Relevant
A.3	Financing risks	Private Sector	Private Sector	Private Sector	Not Relevant	Not Relevant
A.4	Planning	Private Sector	Private Sector	Private Sector	Not Relevant	Not Relevant
A.5	Approvals	Public Sector	Public Sector	Public Sector	Not Relevant	Not Relevant

B. CONSTRUCTION PHASE RISKS B.1 Design Risk Private Sector Private Sector Private Sector Not Relevant
B.2 Construction Risk Private Sector Private Sector Private Sector Not Relevant Not Relevant Not Relevant
B.3 Approvals Private Sector Private Sector Private Sector Not Relevant Not Rele

	Risk Type	BOT Toll	BOT Annuity	BOT Annuity - HAM	ОМТ	вот - тот
С	OPERATIONS PH	ASE RISKS				
C.1	Technology Risk	Private Sector	Private Sector	Private Sector	Private Sector	Private Sector
C.2	Operations & Maintenance Risk	Private Sector	Private Sector	Private Sector	Private Sector	Private Sector
C.3	Volume Risk	Private Sector	Public Sector	Public Sector	Public Sector	Private Sector
C.4	Payment Risk	Private Sector	Public Sector	Public Sector	Public Sector	Private Sector
C.4	Financial Risks	Private Sector	Private Sector	Private Sector	Private Sector	Private Sector
C.5	Handover risk	Private Sector	Private Sector	Private Sector	Private Sector	Private Sector
_						

	Risk Type	BOT Toll	BOT Annuity	BOT Annuity - HAM	OMT	вот - тот
D	OTHER RISKS					
D.1	Change in Law	Public Sector*	Public Sector*	Public Sector	Public Sector	Public Sect
D.2	Force Majeure	Shared	Shared	Shared	Shared	Shared
D.3	Concessionaire risk	Private Sector	Private Sector	Private Sector	Private Sector	Private Sect
D.4	Sponsor risk	Private Sector	Private Sector	Private Sector	Private Sector	Private Sect
D.5	Concessionaire event of default	Private Sector	Private Sector	Private Sector	Private Sector	Private Sect
D.6	Authority event of default	Public Sector	Public Sector	Public Sector	Public Sector	Public Sect

Category	BOT – Toll	BOT – Annuity	BOT-HAM	OMT	тот
Traffic	Included	n/a	n/a	n/a	Included
Bidding Criteria	Highest Upfront premium Highest Revenue Share Lowest VGF	Lowest Annuity Lowest VGF	Lowest Annuity	Lowest annual maintenance	Highest upfront Premium
Revenue	Toll Revenue	Annuity	Annuity	Annual maintenance	Toll Revenue
Operating Cost	Toll Plaza cost Toll Collection Expense O&M Cost Other Office Expenditure Electricity and Patrolling IE/IA expenses Insurance Routine Maintenance	Toll Plaza cost O&M Cost Other Office Expenditure Electricity and Patrolling IE/IA expenses Insurance Routine Maintenance	Toll Plaza cost O&M Cost Other Office Expenditure Electricity and Patrolling IE/IA expenses Insurance Routine Maintenance	Toll Plaza cost O&M Cost Other Office Expenditure Electricity and Patrolling IE/IA expenses Insurance Routine Maintenance	Toll Plaza cost O&M Cost Other Office Expenditure Electricity and Patrolling IE/IA expenses Insurance Routine Maintenance
Financing					
	Equity	Equity	Equity	Equity	Equity
Sources of Funds	Senior Debt Sub Debt				
	VGF Grant	VGF Grant	Grant – 40% construction	n/a without Capital Expenditure	VGF Grant
Taxes	GST / Corp Tax				
Major Maintenance	Included	Included	Included	n/a	included

Module 3-Tools - Value for Money

Testing for Value for Money (VfM) should be an important part of any PPP project development.

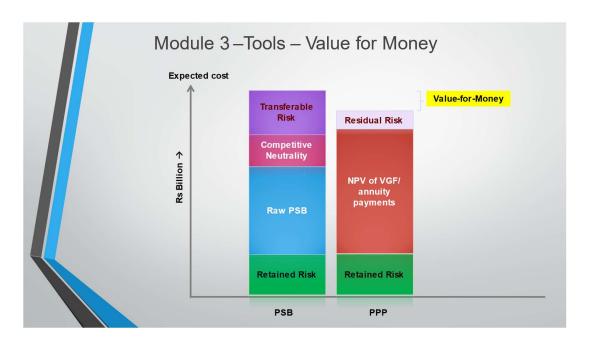
VFM is used as procurement decision i.e. What is the best mode for project implementation? (Public procurement or PPP)

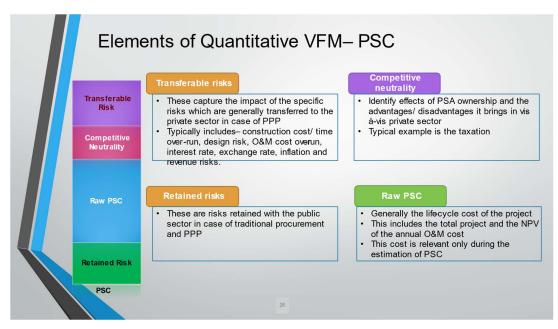
Value for Money (VfM) means the public sector is financially better off if the project is implemented as a PPP rather than if it is done as a traditional public sector project.

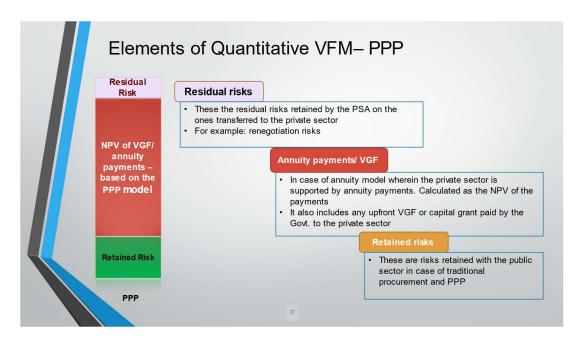
If a project is not expected to provide VFM for the public sector then the project should not be implemented as a PPP.

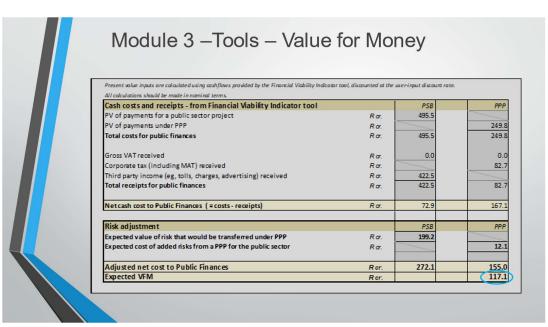
A VFM test compares the estimated cost of procuring the project in the public sector (the traditional route) with the estimated cost of procuring it as a PPP. The public sector procurement option is called the public sector benchmark (PSB).

VFM = Cost of PSB – Cost of PPP









Module 3: Summary of the Tools Tool What's it for? For use in whichphase of the PPPProcess? Pre-feasibility Feasibility Procurement **PPP Family Indicator** Which type of PPP? PPP Mode validation Risk-based check oftype How likely is success of the project ? Identify challenges **PPP Suitability Filter** Financial Viability Model Viable for private partners? VFM Indicator Likely VFM public sponsor? No / little experience of PPPs Experienced with PPPs

Presentation on Contingent Liability Toolkit



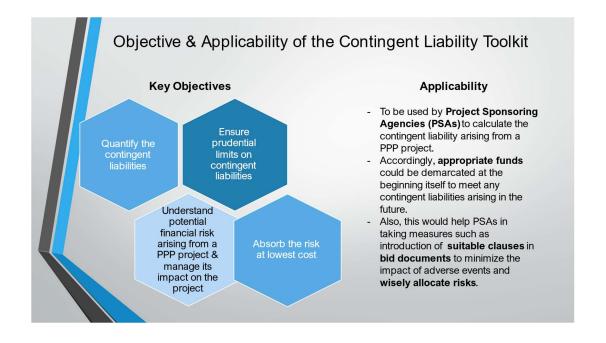
Table of Contents

- What is Contingent Liability?
- Objective of the Contingent Liability Toolkit
- Key Sectors Covered
- Contingent Liability Case Study
- Checklist for Contingent Liability Toolkit
- Advantages of Contingent Liability Toolkit
- Other Initiatives
- Way Forward



Direct Liability versus Contingent Liability **Direct Liability Element of Liability** Contingent Liability Possible obligation from a past resulting from a past event; obligations event; obligations may be Present and certain obligation Obligation and Need for confirmed by occurrence/ Payment and payment needs are known nonoccurrence of uncertain upfront. future events. Known upfront with certainty; reliable Uncertain amounts; estimates estimates of the amount of the may also not be possible with Quantum of amount obligation can be made for reasonable accuracy and accounting and budgeting. reliability. Timing Known with certainty Uncertain/ unknown Uncertain and depend on the occurrence/nonoccurrence of an event in future; Outflow of resources Known with certainty

Direct Liabilities	Contingent Liabilities
1. Viability Gap Payments	Cost on account of Force Majeure Event
2. Annuity Payments	2. Termination payment for Force Majeure Events
3. Any project related specific subsidies	3. Payment for Concessionaire/Authority event of defaults, if such defaults lead to termination of contract





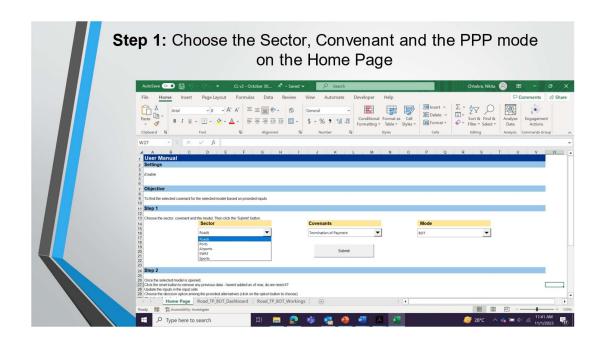


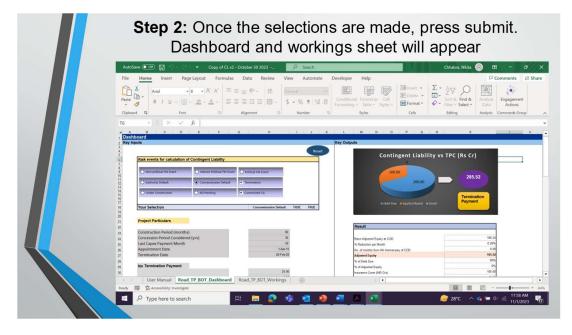
Case Study: Construction of Six-lane Highway on BOT (Toll)

S.No.	Particulars	Key Details				
1.	Name of the project	Construction of six -lane highway				
2.	Type of PPP (BOT, BOOT, BOLT, OMT etc.)	BOT (Toll)				
3.	Location	State: Jharkhand District: Bokaro				
4.	Administrative Ministry/Department	Ministry of Road Transport and Highways, Government of India				
5.	Implementing Agency	National Highways Authority of India				
6.	Length (km)	28.70				
7.	Estimated Project Cost (Rs. Cr)	i. Civil Construction Cost: 718.42 ii. Utility Shifting Cost: 12 iii. Pre-Operative Cost: 7.30 iv. Financing Charges: 3.85 v. Interest during Construction: 22.44 vi. 18% GST on Civil Cost: 131.48 vii. Land acquisition, resettlement and rehabilitation cost: 400 viii. Supervision charges for utility shifting: 24 ix. Total Capital Cost: 1319.49				

Case Study: Construction of Six-lane Highway on BOT (Toll)

S.No.	Particulars	Key Details
8.	Concession Period (years)	30
9.	Construction Period (years)	2
10.	Financing (Rs. Crore)	Equity: 395.847 (30%) Debt: 923.643 (70%)
11.	Appointed Date	30.04.2020
12.	COD	30.04.2022
13.	End of Concession Period	30.04.2050
14.	Date of Termination of Contract	30.04.2027





Risk Event: Authority Event of Default leading to Termination

