

आर्थिक कार्य विभाग DEPARTMENT OF **ECONOMIC AFFAIRS**

2024

OUTCOME REPORT: PPP STRUCTURING TOOLKIT

WATER & SANITATION 26 - 27 FEBRUARY, 2024

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

There exists a mutually causal relationship between infrastructure investment and economic development. It is mutually causal because infrastructure investment and economic development impact each other in the process of development. In fact, infrastructure can be considered as just another input in the production function that has a positive impact on Total Factor Productivity. Sustainable economic growth cannot be achieved if infrastructure development takes a back seat.

PPP is one of the tried and tested mode of infrastructure service delivery in today's world. However, the experience of PPP is not unique across sectors. There are some sectors such as road and ports where we have full-blown PPP and there are some areas where PPP is evolving gradually.

Union Budget FY22 provisioned a capital outlay of Rs 5.54 lakh cr, a sharp increase of 34.5% over FY21. This further saw a jump of 35% again with capex allocation increased to 7.54 lakh cr in FY23. Adding to these various grants for capital expenditure, 'Effective Capital Expenditure' of the Central Government goes up to well over 10 lakh crores in 2022-23.

It is imperative for the public sector to create a pipeline of projects which can attract private sector interest and investment. In supporting this endeavour, the Infrastructure Finance Secretariat in Department of Economic Affairs has taken many initiatives to boost private sector investment in the country such as empanelment of Transaction Advisers, enhanced support to social sector PPP projects under the revamped VGF Scheme, funding support to PSAs for appointing TAs under IIPDF Scheme, preparing model concession agreement for nascent sectors, etc. IFS has already published three reference documents viz. Reference Guide for Project Implementation Mode, Reference Guide for Project Appraisal and Reference Guide for setting-up State PPP units. "PPP Structuring Toolkit" is one among the initiatives to support the Project Sponsoring Authorities (PSAs) to develop their projects with objectivity.

Currently, the PSA are heavily dependent on their Transaction Advisors to develop the project. To equip PSAs to develop projects internally, IFS has developed a hand-tailored toolkit, i.e., the **PPP structuring Toolkit** which will provide a base for PSA to structure projects internally. Recently, the stakeholder workshop titled "PPP Structuring Toolkit for Water and Sanitation Sector" was organized by the Infrastructure Finance Secretariat (IFS), Department of Economic Affairs (DEA), Ministry of Finance (MoF). The workshop specifically aimed to develop a robust pipeline of water and sanitation 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 65 + participants from public and private sector institutions.

The workshop was organised at the SCOPE Complex in New Delhi, on $26^{th} - 27^{th}$ February 2024. The workshop commenced with an inaugural session by Joint Secretary, DEA Shri Baldeo Purushartha, followed by walk through of the PPP structuring toolkit for the sector. The participants completed a case study using the web-based toolkit.

The Toolkits are available for use by PPP professionals across India on <u>www.pppinindia.gov.in</u>. 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 section below briefly discusses various tools of the toolkit discussed during the workshop.

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.
- o Mode validation: The mode validation is based on the risk profile of the project.
- **Financial viability indicator**: Financial viability indicator evaluates 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 Authorities (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 meticulously organized to serve as a platform for guiding participants through the PPP structuring toolkit and Contingent Liability toolkit. Additionally, it offered an opportunity to highlight the various guidance materials developed by the Department of Economic Affairs (DEA), Ministry of Finance, Government of India. This workshop marked the second in a series, with the specific goal of raising awareness, enhancing usability, and providing clear direction to Project Sponsoring Authorities and their officials on how to maximize 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 **Water & Sanitation sector** using the tools of the toolkit. It gave participants hands on experience to learn the use of the toolkit. At the same time, the workshop also provided an excellent opportunity to seek suggestions for improvements in the toolkits.

A total of **463** user logins have been created for the PPP Structuring toolkit as of 29 February 2024.

Summary of the workshop

1.3. Workshop Schedule

The detailed agenda of the workshop is provided below:

Day	Timing	Details	Presenter
Day 1	1000 – 1030	Registration & Tea	
	1030 - 1045	Welcome Address	Ms. Preeti Jain, Director, DEA
	1045 – 1100	Inaugural Address	Shri Baldeo Purushartha, Joint Secretary, 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, Joint 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. Puja Sharma PPP Expert, ADB Consultant
	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
	1600 – 1630	Tea Break	
	1630 – 1700	Q & A session	

Day	Timing	Details	Presenter
Day 2	0930 – 1000	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. Arya Balan, Joint Director, ISD, DEA

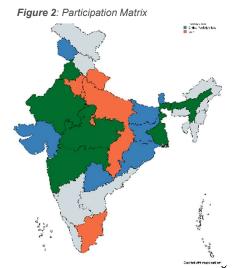
Figure 1:Welcome Address by Ms. Preeti Jain, Director,



The Workshop was inaugurated by Joint Secretary DEA, Shri Baldeo Purushartha with a welcome address and context setting note delivered by the Ms. Preeti Jain, Director, Infrastructure Support and Development (ISD) Division, DEA in which she highlighted the potential in PPPs and the importance of structuring of the projects before it is sent for appraisal and approval to various stakeholders.

1.4. Coverage of the workshop

The workshop was attended by officers of PSA who are associated with the Water & Sanitation sector. The Workshop witnessed active participation of more than **70 participants** through hybrid mode from Central Infrastructure Line Ministries and Departments including MOHUA, NITI Aayog, Department of Expenditure, Department of Drinking Water and Sanitation and Department of Economic affairs. 19 States and UT including Assam, Bihar, Chhattisgarh, Delhi, Gujarat, Haryana, Jammu & Kashmir, Jharkhand, Madhya Pradesh,



Maharashtra, Odisha, Punjab, Rajasthan, Sikkim, Tamil Nadu, Telangana, Uttar Pradesh, Uttarakhand and, Arunachal Pradesh, Kerala, Ladakh, Uttarakhand and West Bengal participated in the workshop.

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

1.5. 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 February 27, 2024, 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 29 February 2024, a total of 29 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 highest score as mentioned below:

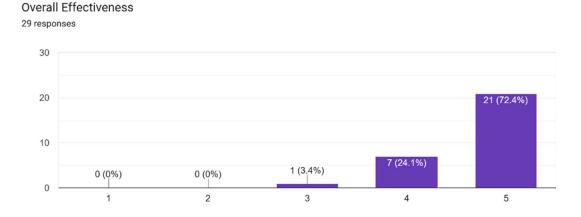
- 1= Poor
- 2= Needs improvement
- 3= Effective
- 4= Very Effective
- 5= Excellent

Summary of the feedback is presented in the following section.

1.5.1. Overall feedback on the workshop

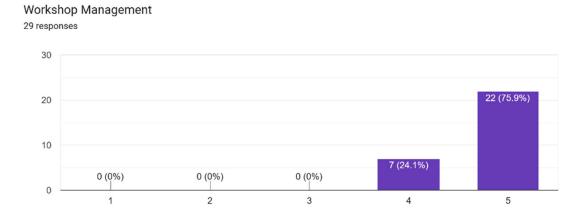
Figure 1 and Figure 2 below highlights the 'Level of satisfaction of participants' and 'Interest for participating in similar workshops in future'.

Figure 3: Scoring on overall effectiveness of the workshop



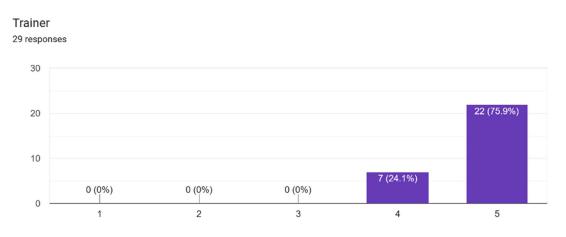
Workshop was rated excellent by majority of the respondents. The participants also provided feedback to have more such workshops in the states and choose the participants from the field.





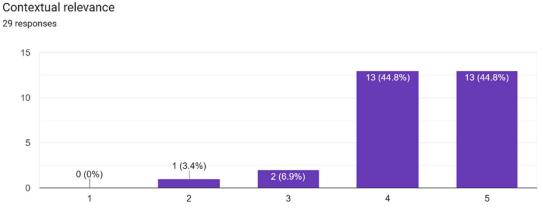
The participants rated overall management of the workshop on a rating of 4 or 5 indicating that participants found the workshop and related infrastructure conducive and useful.

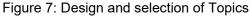


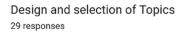


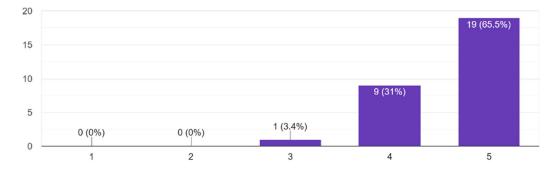
100% of the participants rated the trainer's effectiveness and delivery on a scale of 4 and 5. They were satisfied with the speed, content, knowledge and delivery aspect of the trainer.

Figure 6: Feeback on contextual relevance









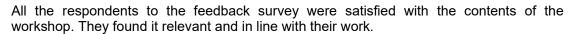
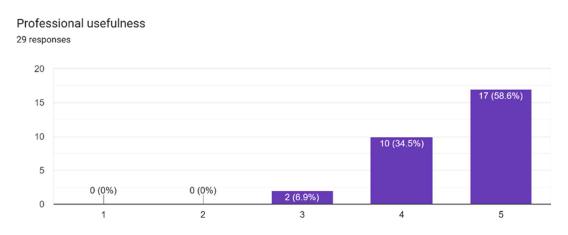


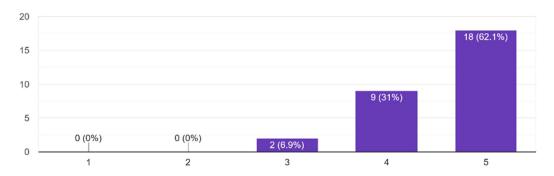
Figure 8: Professional usage of toolkit feedback



All the respondents found the content to be useful in their profession. 90%+ of respondents rated the workshop content on a scale of 4 and 5 for their professional usage.

Figure 9: Feedback on using toolkit for project appraisal

Will you be using the toolkit for appraising the projects received by your department? ^{29 responses}

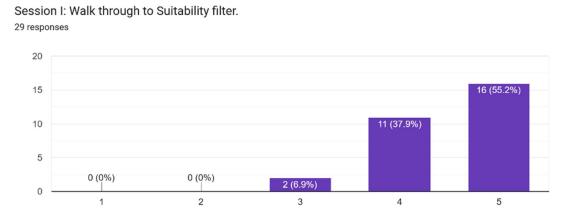


Respondents were enthusiastic to use the toolkit to appraise the projects in their departments.

1.5.2. 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.

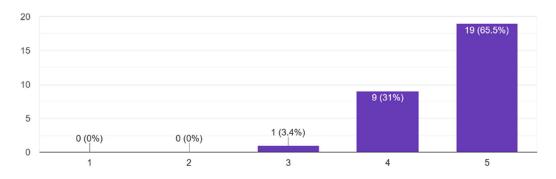




All the respondents rated the Session I between 3 to 5 scale. They rated the session as very effective.

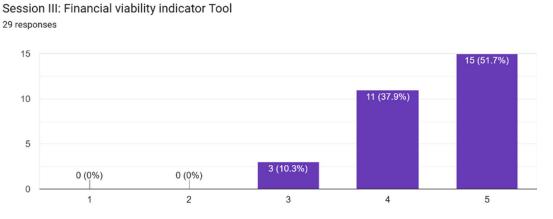
Figure 11: Family Indicator & Mode validation tool

Session II: Walk through to Family mode and Mode selection tool 29 responses



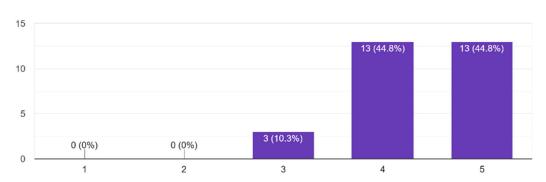
 \sim 97% of the respondent rated the Session II between 4 and 5 scale. They rated the session as effective and liked the quality of delivery of the session.

Figure 12: Financial viability indicator tool



 \sim 90% respondents were very satisfied with the case study used to learn the financial viability tool.

Figure 13: Value for money indicator tool

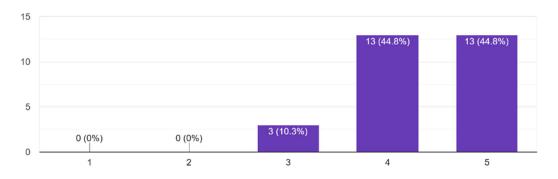


Session IV: Value for money Tool 29 responses

 \sim 90% respondents were extremely satisfied with the learning of Value for money indicator tool.

Figure 14: Feedback on Contingent liability tool

Session V: Contingent liability Toolkit 29 responses

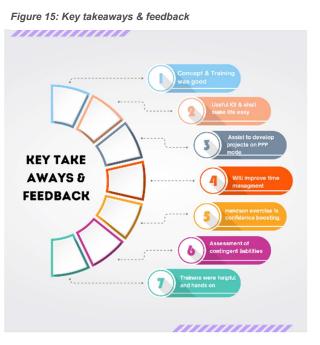


 \sim 96%+ respondent was satisfied with the delivery and understanding of the Contingent Liability Toolkit. They have rated the session on a scale of 3 to 5 respectively.

1.6. Key Takeaways and Feedback

Key takeaways and feedback received from the workshop is as below:

- Concept & training was good and it gave good ideas for preparation of PPP mode project.
- Very useful kit for the water and sanitation sector and vision for tomorrow
- PPP is a very new field and is the need of the hour for most of the ULBs. This toolkit will surely help to take up some projects in the PPP mode.
- By the use of tools, life has been made extremely easy.
- Might be useful to make SPV selfsustainable.
- Excellent knowledge gained from workshop.



- Assessment of contingent liability.
- **Opening up of mind** towards almost all the parameters related to decision making for PPP implementation in such a short span of time.
- Improving in work evaluation with respect to time management.

1.7. Suggestion for improvement

Some of the key suggestions received from participants during the workshop and through

feedback form are as follows:

- **More case studies** More hand on case studies to be done by the participants to have quick access to practice
- 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 revamping of aged Govt. buildings which are earning revenue also like Siri Fort Auditorium etc.
- Add some live tenders documents for better understanding
- Workshop should have **One more day** to get more exercise on case studies.
- Frequent workshops should be conducted to impart such trainings.
- Online participants also need to be interactive.
- The trainees' accommodations and transportation should be the part of training management
- Allocate more time to Financial Viability Indicator module.

1.8. Vote of Thanks

The workshop concluded with a vote of thanks from Ms. Preeti Jain, Director. On behalf of the Private Investment Unit (PIU) - DEA, Ms. Jain expressed gratitude to the honourable Joint Secretary, Shri Baldeo Purushartha, who took time out of his busy schedule to inaugurate and contribute to the workshop. Shri Baldeo Purushartha has been the driving force behind the development of these toolkits. Ms. Jain also extended her appreciation to Ms. Puja Sharma for her contribution to revamping the PPP Structuring toolkit and to Ms. Nikita Chhabra for presenting the Contingent Liability toolkit.

Ms. Jain conveyed her well wishes and gratitude to all the participants who joined both physically and virtually from various central ministries, state departments, and Public Sector Undertakings. Their active participation and valuable contributions enriched the discussions. She acknowledged the feedback and suggestions received from the participants and assured that the DEA is already incorporating many of these inputs.

In conclusion, Ms. Jain emphasized that the DEA will continue organizing a pipeline of workshops to support government institutions in making informed decisions for PPP projects. She encouraged participants to provide honest feedback to further enhance the toolkits for the benefit of a wider audience.

Appendix A – Snapshots of the workshop

Following is the glimpse of the workshop:

Figure 16: Joint Secretary, Shri Baldeo Purushartha lighting the lamp



Figure 17: Inaugral Address by Joint Secretary DEA, Shri Baldeo Purushartha



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



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



Figure 20: Day 2 Session III presentation by Ms. Puja Sharma



Figure 21: Day 2 Ms. Nikita Chhabra presenting Contingent liability toolkit



Figure 22: Deputy Director, Dr. Kartik Agrawal presenting VGF, IIPDF and other schemes of DEA



Figure 23: Participants' interactions





Appendix B – Participants List

	List o	of Physical participan	ts
S. No.	Participant Name	Designation	Name of the Organization/Firm
Particip	ants from Department of E	Economic Affairs	
1.	Ms. Preeti Jain	Director	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance
2.	Shri Manoj Kumar Madholia	Joint Director	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance
3.	Ms. Arya Balan Kumari	Joint Director	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. Anmol Waraich	Assistant Director	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance
6.	Shri Rajender Singh	Section Officer	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance
7.	Shri Manjeet Yadav	Assistant 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.	Shri Dhruv Rohatgi	OSD	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance
10.	Shri Gaurav Jumrani	Consultant	Infrastructure Support and Development Division (ISD), Department of Economic

	List	of Physical participa	ants
S. No.	Participant Name	Designation	Name of the Organization/Firm
Particip	ants from Department of I	Economic Affairs	
			Affairs (DEA), Ministry of Finance
11.	Shri Shubham Varun	Stenographer	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance
12.	Shri Anurag Choudhary	Data Entry Operator	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance
13.	Shri Anup Kumar	MTS	Infrastructure Support and Development Division (ISD), Department of Economic Affairs (DEA), Ministry of Finance

6. No.	Participant Name	Designation	Name of the Organization/Firm
Particip	oants from States/ Line Mi	nistries	
14.	Shri Kripashankar Yadav	team Leader, SBM(G)	Panchayat and Rural Development Department
15.	Ms. Shivani Verma	Joint Commissioner, SBM	Panchayat and Rural Development Department
16.	Shri Suhail Malik	Chief Executive Officer	Housing and Urban Development Department, J&K
17.	Shri Arvind K S Chauhan	Chief Finance Officer	Assam Urban Infrastructure Development & Finance Corporation
18.	Shri Mohammad Wasim Ahmad	Superintending Engineer	Uttarakhand Peyjal Nigam
19.	Shri Naveen Kumar Khare	SE(Project) Water	Delhi Jal Board
20.	Shri Saurabh Upadhyay	Junior Engineer	Nagar Nigam Jaipur Heritage
21.	Ms. Deepti Arora	Chartered Accountant	Transaction advisor
22.	Shri Nitish Jha	Assistant Engineer	Municipal Corporation Raip
23.	Shri Anshul Sharma	Assistant Engineer	Municipal Corporation Raip

List of Physical participants - PSA	

S. No. Participant Name

Designation

Name of the Organization/Firm

Participants from States/ Line Ministries

24.	Shri Kehari Singh Meena	Assistant Director	Department of Drinking Water and Sanitation
25.	Shri Jay Ram Prasad	Deputy Municipal Commissioner	Urban Development & Housing Department, Bihar
26.	Shri Shailendra Narayan Dubey	Deputy Project Director	Urban Development & Housing Department, Bihar
27.	Shri Manoj Malhotra	Superintending Engineer	Department of Water Supply and Sanitation, Punjab
28.	Shri M. Arunkumar	Executive Engineer	Desalination wing, Tamil Nadu
29.	Shri Waseem Akram	Assistant Engineer	Municipal Corporation, Gurugram
30.	Shri Ankit Kapoor	Junior Engineer	Municipal Corporation, Gurugram
31.	Ms. G B Vydahi	Superintending Engineer (Desal)	Desalination wing, Tamil Nadu
32.	Dr Harish Yadav	Asstt. Director	Capacity Building unit, Department of Economic Affairs
33.	Ms. Seema Joshi	Joint Director	Capacity Building unit, Department of Economic Affairs
34.	Shri Kunal Bansal	Assistant Section Officer	Capacity Building unit, Department of Economic Affairs
35.	Shri Gurparkash Singh	Executive Engineer	Department of Water Supply and Sanitation, Punjab
36.	Shri Ghanshyam Das	Assistant Engineer	DLB JAIPUR
37.	Shri Prashant Gandhi	Assistant Engineer	DLB JAIPUR
38.	Shri Sanjay Kumar Barman	Superintending Engineer	UP Jal Nigam (Rural)
39.	Shri Ram Bhawan Ram	Chief Engineer	UP Jal Nigam (Rural)
40.	Shri Rohit Kakkar	Deputy Adviser	МОНИА
41.	Shri Neeraj Agrawal	Consultant	МОНИА
42.	Shri Sanjay Kumar Sinha	Director	Department of Drinking Water and Sanitation
43.	Shri Magan Lal	Under Secretary	Department of Drinking Water and Sanitation
44.	Shri Prashant Khullar	Superintending Engineer	Jal Nigam Ambikapur

List of F	Physical participants - PS/	A	
S. No.	Participant Name	Designation	Name of the Organization/Firm
Particip	oants from States/ Line Mi	nistries	
45.	Shri Ramesh	Assistant Engineer	Department of Drinking Water and Sanitation
46.	Shri Akhilesh Ojha	Assistant Engineer	DJB, Jaipur
List of F	Physical participants - Priv	/ate	
S. No.	Full Name of Participant	Designation	Name of the Organization/Firm
47.	Shri Anand Menon K	Transaction advisor	Darashaw and Co Pvt Ltd
48.	Shri Soubhik Kumar	Transaction advisor	PwC
49.	Shri Haider Saikh	Transaction advisor	PwC
50.	Shri Debmalya Bhattacharya	Transaction advisor	KPMG
51.	Shri Vishwas Nagi	Transaction advisor	КРМС
52.	Ms. Nikita Chhabra	Transaction advisor	КРМС
53.	Shri Gaurav Sharma	Transaction advisor	KPMG
54.	Shri Amritesh Bhaskar	Transaction advisor	KPMG
55.	Ms. Priyanka Uberoi	Transaction advisor	Ernst & Young
56.	Shri Rohit Trivedi	Transaction advisor	KPMG

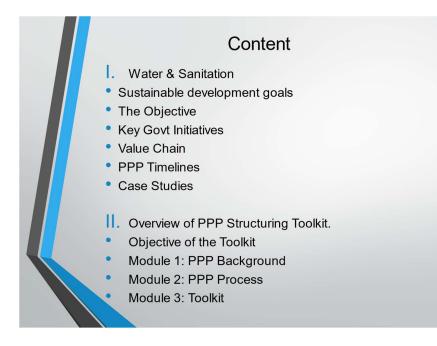
6. No.	Participant Name	Designation	Name of the
			Organization/Firm
Particip	ants from States/ Line Mir	histries	
57.	Shri Anand Kumar	Consultant	Rural Development
			Department Government of Bihar
58.	Shri Chetram Koli	Head - PMU	Department of Higher Education
59.	Shri Sonam Pincho Bhutia	Assistant Engineer	Rural Development Department - Sikkim
60.	Shri Prasoon Kaushik	Assistant Municipal	Dhanbad Municipal
		Commissioner	Corporation
61.	Shri Saroj Tamang	Assistant Engineer	Rural Development Department - Sikkim
62.	Shri Rajesh Sharma	Assistant General	Transaction advisory
		Manager - Bidding & BD	
63.	Shri Rajesh Sharma	Executive Engineer	Public Health Engineering, Jammu
64.	Shri Himshikha Sahu	Under Secretary	Finance Department, Chattisgarh
65.	Ms Vartika Srivastava	Manager	Transaction advisory
66.	Shri Satyananda Sarangi	Under Secretary to Government	Finance Department, Odisha
67.	Ms Sheetal Shashwat Verma	Special Secretary	Finance Department, Chattisgarh
68.	Shri Pankaj Bhushan	Environment Engineer	Municipal Corporation Agra
69.	Shri Abhinav Gupta	Deputy Manager	Transaction advisory
70.	Shri Nishanth Vadduri	Manager	Transaction advisory
71.	Shri Rajesh Amarsinh Jethwa	Retired Chief Engineer	GWSSB, Gujarat
72.	Shri Siddharth Patel	Consultant - Water	UNICEF, DEL
73.	Shri Baldev Bharti	PMU, Jal Shakti	Public Health Engineering Department, Jammu
74.	Shri Kamal Kishore	Consultant, Knowledge Resource Centre, NJJM and Centre for Engineering Studies	Mahatma Gandhi State Institute of Public Administration, Chandigarh
75.	Shri Malika Raina	Under Secretary	Civil Secretariat, Jammu & Kashmir
76.	Shri Devesh Dubey	PMU, Jal Shakti	Public Health Engineering

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

Presentation of PPP structuring toolkit

•

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Challenge & Sustainable Development Goals

- Sustainable Development Goal on Clean Water and Sanitation, by 2030, sets targets:
- achieve universal and equitable access to safe and affordable drinking water for all
- achieve access to adequate and equitable sanitation and hygiene for all
- substantially increase water-use efficiency across all sectors.

600 million people face high-toextreme water shortages

75% of households do not have drinking water

50% of rural households do not have access to piped water

70% of water is contaminated

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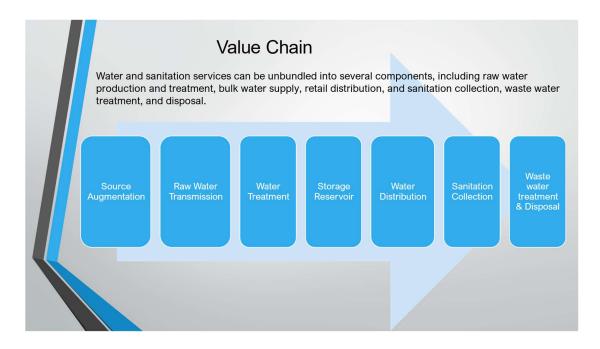
600 million people face high-toextreme water shortages

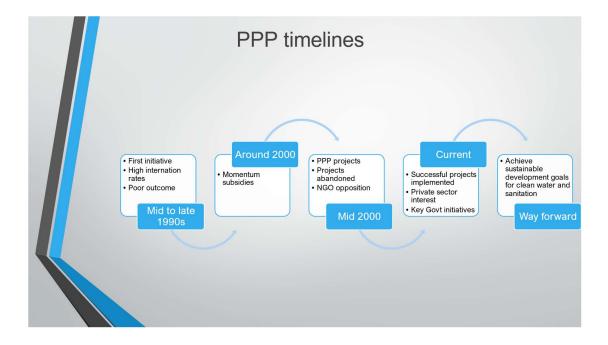
75% of households do not have drinking water

50% of rural households do not have access to piped water

70% of water is contaminated

Key Govt Initiatives Jal Shakti Abhiyan: Catch the rain
To preserve the rain water
National Perspective Plan
Interlinking rivers to t/f water from surplus basins to deficit basin
Jal Jeevan Mission
 to make provision of potable tap water supply to every rural household of the country at the service level of 55 litre per capita per day
AMRUT 2.0
 providing universal coverage of water supply through functional household tap connections in all statutory towns in the country
Pradhan Mantri Krishi Sinchayee Yojna
 To enhance physical access of water on farm and for expanding cultivable area under assured irrigation, improve on farm water use efficiency, introducing sustainable water conservation practices
Sahi Fasal by National Water Mission
 to nudge farmers in the water stressed areas to grow crops which use water efficiently, are economically remunerative, are healthy and nutritious, suited to the agro-climatic-hydro characteristics of the area, and are environment friendly.
Atal Bhujal Yojana
 Community participation and demand side intervention for sustainable ground water management in identified water stressed areas ofseven States namely Haryana, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan and Uttar Pradesh.



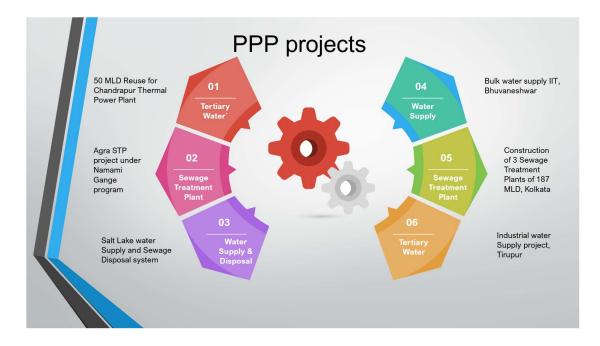


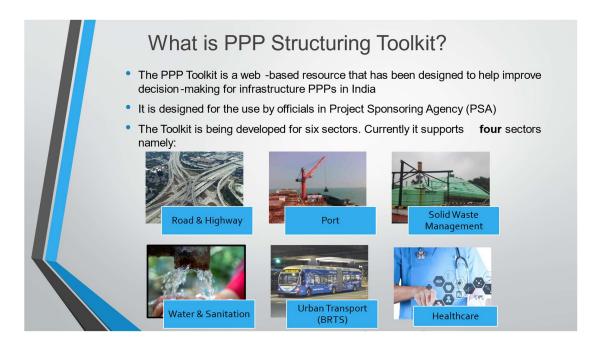
PPP Projects - Water sector

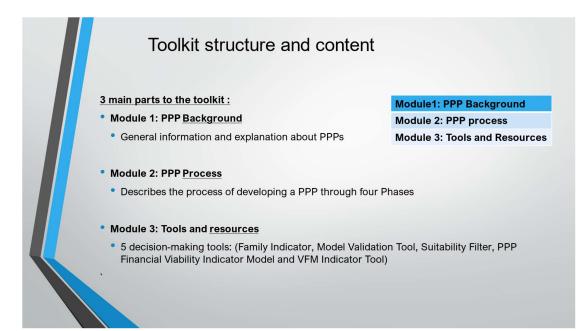
- 24x7 Water Supply project, Nagpur
- 50:50 JV of Veolia and Vishvaraj
- 500 Mil Citizens benefited along Ganga basin
- Scope
 - End to end scope from WTP to customer tap including billing and collection
 - 187 MLD treatment | 3700 Km pipeline | 325,000 house service connection.
- Operation duration 15 years
- Project cost 550 Crs.
- Performance linked PPP contract with 50% investment by the operator
- Many national and international accolades including Prime Minister's "Best Water Practice" award

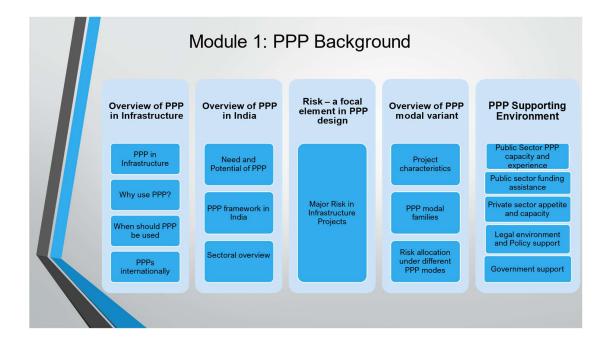


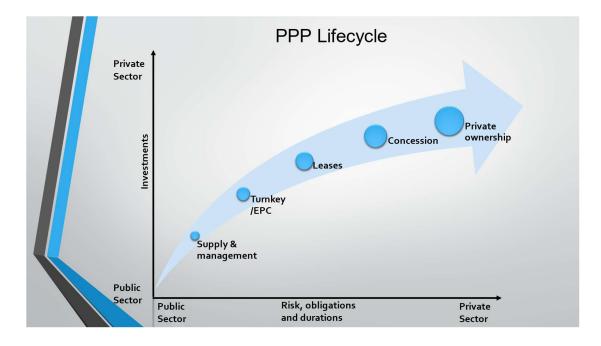
PPP Partner- VA TECH WABAG LIMITED and Kathari Water Management



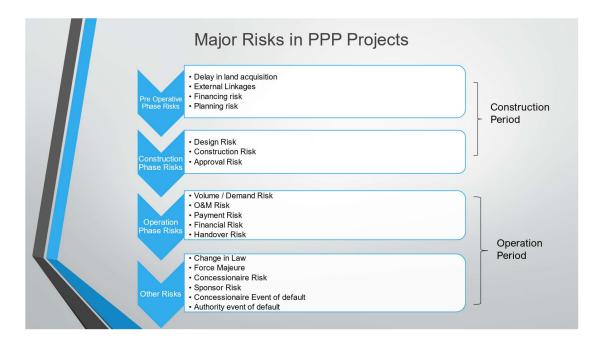


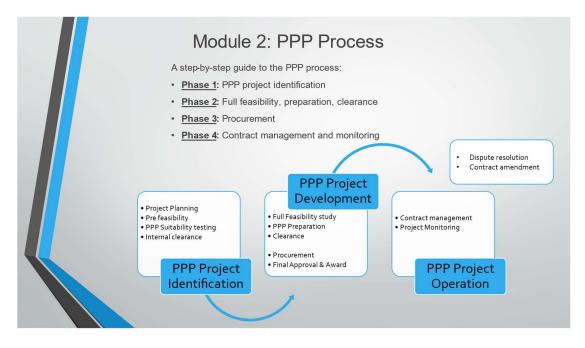


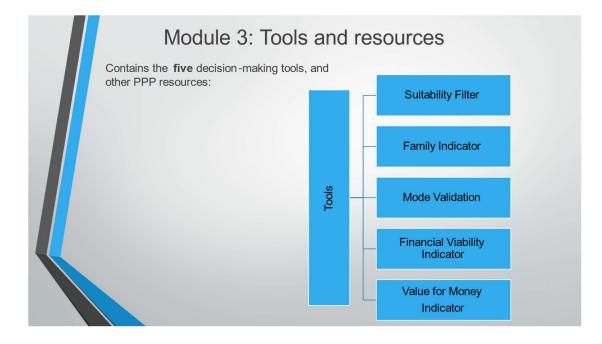


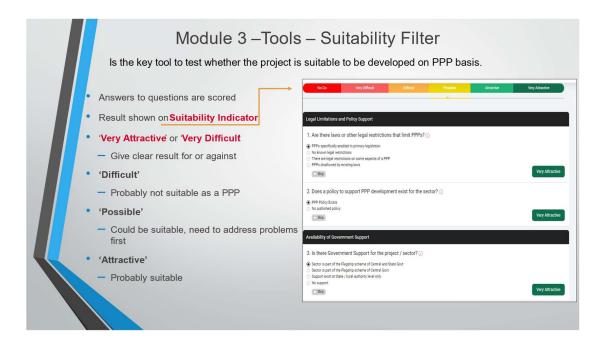


Component	of PPPs
Contract	• The contract is between the public and the private party for a fixed period of time
Concession	• The contract contains a set of rights and obligations that is granted to the private party during the fixed period of time.
Partnership	• The partnership between the public and the private parties to share rights and duties and risk and rewards optimally between the parties.
Payment	• The service provided by the private party has payment associated with it.









Par	rameters	Questions	Explanation
Leg	gal	 Are there laws or other legal restrictions that limit PPPs? Does a policy for private participation in the sector exist? 	understand if the law permits the
Pol	litical	 Is there Political Support for the sector/ project? Is there support of PPP in the affected communities? 	
Put	blic sector	 Is there a PPP Unit/Dept in the State? 	This parameter analyses PSAs capacity to
PPF	P capacity	Does the Public Sponsoring Agency have the	execute and implement PPP project.
and	d	capabilities to procure PPPs?	
exp	perience	 Does the Sponsoring Agency have the capabilities to manage and monitor a PPP contract? Does the Sponsoring Agency have previous experience with PPPs? Would the physical infrastructure pass through multiple jurisdictions? 	

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

Parame	eters Questions	Explanation
Land av	 ailability Will the PPP require land acquisition If land acquisition is required, will public sector do this? 	manufactured and metanetic increase
Environ and Soc Impact	• will all first have signifi-	cant These parameters assess the impact of the project on Environment and social ocial factors related to it.
Labour	 Will a significant transfer of employ take place under the PPP? Have there been successful trans under previous PPPs? Is the project likely to result in losses? 	

rs Questions	Explanation
 Are outputs definable, 	If it is not possible to clearly specify outputs then there is
measurable and	a high risk of disputes arising during the course of the
verifiable?	PPP. There should also be an agreed understanding on
	the desired outputs before proceeding to PPP
	procurement.
Are there time	A PPP procurement will generally take more time than a
constraints?	conventional procurement-although this will be offset by
• Can PPP project be	the faster speed of delivery once the contract is
tendered at a short	awarded. If there are significant time constraints on the
notice?	contracting process, a PPP may not be appropriate.
	This parameter understands the time available to
	procure the PPP.
	 Are outputs definable, measurable and verifiable? Are there time constraints? Can PPP project be tendered at a short

Module 3 — Tools — Family indicator
2. Would assets under the proposed PPP be 'greenfield' (newly-built) or 'brownfield' (additions to existing infrastructure)? Greenfield assets
3. Which party would own the assets under the PPP?
Assets would be publicly owned
Private sector finance required
Indicative roles for private sectors Design, finance, construction, operation and maintenance User Pay User Charges

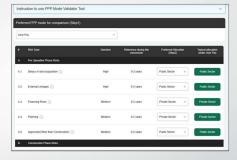
Module 3 – Tools – Mode validation

The tool uses a risk allocation analysis to help decide further whether the selected PPP mode is best for the project.

The risk are assigned based on the latest model concession agreement.

Risks are broadly classified in the following major categories

- 1. Pre operative Risk
- 2. Construction Risk
- 3. Operation Risk
- 4. Other Risk



Outputs of the to	ol
Number of matches to preferred risk al	llocation:
BOT User Pay	17of 20
BOT Annuity	15 of 2
BOT Annuity – HAM	16 of 2
OMT	9 of 20
Score of 20 = perfectly matched	

	Risks	Description
	Pre-Operative Phase Ris	ks
	Delay in land acquisition	Refers to the risk that the project site will be unavailable or unable to be used within the required time, or in the manner or the cost anticipated or the site will generate unanticipated liabilities due to existing encumbrances and native claims being made on the site. This risk is most relevant to greenfield projects involving treatment and disposal facilities.
	External linkages	Refers to the risk that adequate and timely connectivity to the project site is no available, which may impact the commencement of construction and the overall pace of development of the project. Eg. Road's connectivity to Landfill site.
	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 credit availability resulting in delays in the financial closure of the project.
	Planningrisks	Refers to the risk that the pre-development studies (technical, legal, financial, and others) conducted are inadequate or not robust enough resulting in possible deviations from the planned or expected outcomes in the PPP project development.

Construction Phase	Risk
Design risk	Refers to the risk that the proposed design will not meet the performance and 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 no be completed on time, within budget, or to specification. It may lead to additional 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 phase will result in 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 superseded during the term
		of the project and will not be able to satisfy the requirements in the output specifications. I
		would result in increased costs of replacement technology.
	Operations and	Refers to the risks associated with the need for increased maintenance of the assets over
	maintenance risk	the term of the project to meet performance requirements.
	Volume / Demand risk	Refers to the risk that demand for service will vary from that initially projected, such that the
		total revenue derived from the project over the project term will vary from initia
		expectations.
	Payment risk	Refers to the risk that tolls are not collected in full or are not set at a level that allows
		recovery of costs. This is a risk for the public sector under shadow tolls and for the private
		sector under user tolls. There is no risk in annuity contracts.
	Financialrisk	Refers to the risk that the private sector overstresses a project by inappropriate financia
		structuring. It can result in additional funding costs for increased margins or unexpected
		refinancing costs.
	Handover risk	Refers to the risk that the concessionaire will default in the handover of the asset at the end
		of the project term or will deviate from the minimum quality/value of the asset that needs to
		be handed back to the public entity.

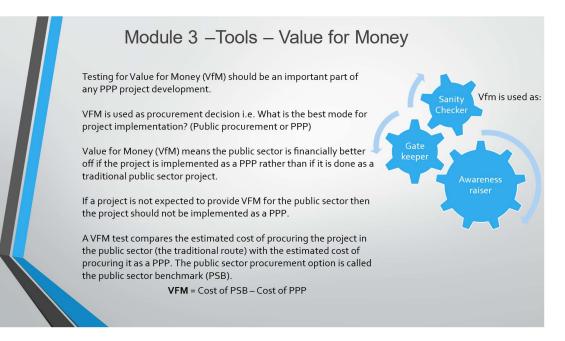
Risks	Description
Other risks	
Change in law	Refers to the risk that the current legal/regulatory regime will change, having a material
	adverse impact on the project.
Force Majeure	Refers to the risk that events beyond the control of either entity may occur, resulting in
	a material adverse impact on either party's ability to perform its obligations under the
	PPP contract. E.g.: pandemics, strikes, act of war.
Sponsor risk	Refers to the risk that the Private entity will prove to be an unsuitable partner for the
	project, for example, due to poor project management, lack of funds or a failure to fully
	recognise the agreed terms of the Concession Agreement.
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 sponsors or recover some form of compensation or remedy from the
	sponsors for any loss sustained by it as a result of the breach or the private partner wil
	prove to be inappropriate or unsuitable for delivery of the project.
Authority event of default	Refers to the risk that the Public Sponsoring Authority will not fulfil its contractua
	obligations and that the Concessionaire will be unable to either enforce those
	obligations against the Authority or recover some form of compensation or remedy from
	the Authority for any loss sustained by it as a result of the breach.

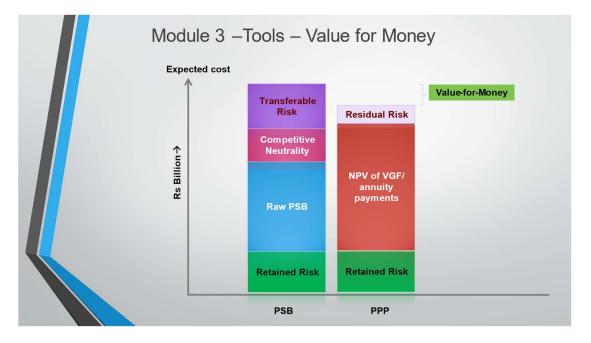
	Risk Type / PPP Mode	User Pay	Authority Pay	Authority Pay -	Management
Α	PRE OPERATIVE PHASE F	RISKS		HAM	
A.1	Delays in land acquisition	Public Sector	Public Sector	Public Sector	Not Relevant
A.2	External linkages	Public Sector	Public Sector	Public Sector	Not Relevant
A.3	Financing risks	Private Sector	Private Sector	Private Sector	Not Relevant
A.4	Planning	Private Sector	Private Sector	Private Sector	Not Relevant
в	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
B.3	Approvals	Private Sector	Private Sector	Private Sector	Not Relevant

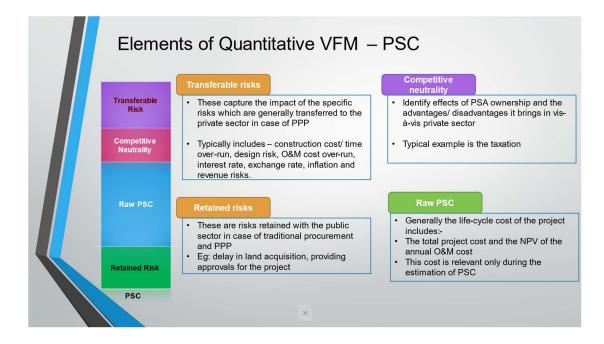
	Risk Type / PPP	User Pay	Authority Pay	Authority Pay -	Manageme
	Mode	User ray	Authority Pay	HAM	Wanayeme
C	OPERATIONS PHASE	RISKS			
C .	1 Operations & Maintenance Risk	Private Sector	Private Sector	Private Sector	Private Sect
С.:	2 Volume Risk	Private Sector	Public Sector	Public Sector	Public Sect
С.	³ Payment Risk	Private Sector	Public Sector	Public Sector	Public Sect
C.	4 Financial Risks	Private Sector	Private Sector	Private Sector	Private Sec
C.	5 Performance Risk	Private Sector	Private Sector	Private Sector	Private Sec
	Performance Risk				
C.	Environmental Risk	Private Sector	Private Sector	Private Sector	Private Sec
С.	7 Handover Risk	Private Sector	Private Sector	Private Sector	Private Sect

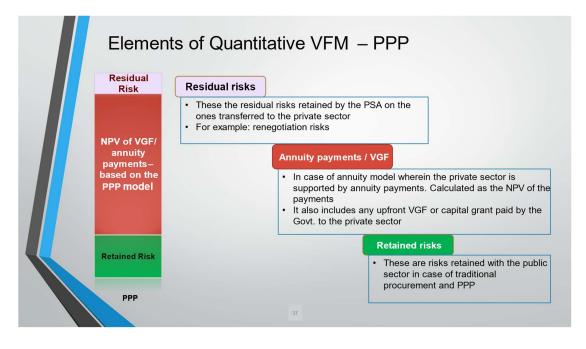
	Risk Type / PPP Mode	User Pay	Authority Pay	Authority Pay - HAM	Managemer
D	OTHER RISKS				
D.1	Change in Law	Public Sector	Public Sector	Public Sector	Public Secto
D.2	Force Majeure	Shared	Shared	Shared	Shared
D.3	Concessionaire risk	Private Sector	Private Sector	Private Sector	Private Secto
D.4	Sponsor risk	Private Sector	Private Sector	Private Sector	Private Secto
D.5	Concessionaire event of default	Private Sector	Private Sector	Private Sector	Private Secto
D.6	Authority event of default	Public Sector	Public Sector	Public Sector	Public Secto

Category	BOT – User Pay	BOT – Authority Pay	BOT – Authority Pay (HAM)	Managemen
Volume	Included	Included	Included	Included
Bidding Criteria	Highest Upfront premium Highest Royalty Lowest VGF	Lowest Annuity Lowest VGF	Lowest Annuity	Lowest annu maintenance
Revenue	User charge Sale of treated water Non-Water revenues	User charge Sale of treated water Non-Water revenues	User charge Sale of treated water Non-Water revenues	User charge Sale of treate Non-Water n
Operating Cost	Chemicals Connection cost Purchase of raw water Power consumption Salaries and expenses Other admin expenses IE/IA expenses Insurance Routine Maintenance	Chemicals Connection cost Purchase of raw water Power consumption Salaries and expenses Other admin expenses IE/IA expenses Insurance Routine Maintenance	Chemicals Connection cost Purchase of raw water Power consumption Salaries and expenses Other admin expenses IE/IA expenses Insurance Routine Maintenance	Chemicals Connection of Purchase of Power consu Salaries and Other admin IE/IA expensu Insurance Routine Main
Financing				
	Equity	Equity	Equity	Equity
Sources of Funds	Senior Debt Sub Debt	Senior Debt Sub Debt	Senior Debt Sub Debt	Senior Debt Sub Debt
	VGF Grant	VGF Grant	Grant - 40% construction	n/a without C Expenditure
	GST / Corporation Tax	GST / Corporation Tax	GST / Corporation Tax	GST / Corpo









Module 3 – Tools – Value for Money

Cash costs and receipts - from Financial Viability Indicator tool		PSB	PP
PV of payments for a public sector project	R cr.	220.6	
PV of payments under PPP	R cr.		15.
Total costs for public finances	R cr.	220.6	15.
Gross VAT received	R cr.	0.0	0.
Corporate tax (including MAT) received	R cr.		19.
Third party income (eg, tolls, charges, advertising) received	R cr.	276.4	
Total receipts for public finances	R cr.	276.4	19.
Net cash cost to Public Finances (= costs - receipts)	R cr.	-55.8	-4.
Risk adjustment		PSB	PP
Expected value of risk that would be transferred under PPP	R cr.	116.4	
Expected cost of added risks from a PPP for the public sector	R cr.		0.
Adjusted net cost to Public Finances	R cr.	60.6	-4.
Expected VFM	R cr.		65.

Tool	What's it for?	For use in which phase of the PPP Process?		
		Pre-feasibility	Feasibility	Procurement
PPP Suitability Filter	Should you do the project on PPP? A Go/No Go decision	•		
PPP Family Indicator	Which type of PPP?	٠		
PPP Mode validation	Risk-based check of PPP type	•	•	
Financial Viability Model	Viable for private partners?	•	•	•
VFM Indicator	Likely VFM for public sponsor?	•	•	•
	No / little experience of PPPs	• • • •	Experienced	with PPPs

Contingent Liability Toolkit



Objective of the Contingent Liability

• What is Contingent Liability?

- Toolkit
- Key Sectors Covered
- Contingent Liability Case Study
- Checklist for Contingent Liability Toolkit
- Advantages of Contingent Liability Toolkit
- Other Initiatives
- Way Forward

Table of Contents

Contingent Liabilities arising from a PPP Contract

Costs on account of Force Majeure events

Termination payments for Force Majeure events

Payments for Concessionaire/Authority non-termination damages

Termination Payments for event of default

Obligations of the government arising from a valid PPP contract whose occurrence, timing, and amount depend on some uncertain future event or circumstance.

Direct Liability versus Contingent Liability

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

Types of Direct and Contingent Liabilities

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

Objective & Applicability of the Contingent Liability Toolkit



- To be used by Project Sponsoring Agencies (PSAs) to calculate the contingent liability arising from a PPP project.
- Accordingly, **appropriate funds** could be demarcated at the beginning itself to meet any contingent liabilities arising in the future.
- Also, this would help PSAs in taking measures such as introduction of suitable clauses in bid documents to minimize the impact of adverse events and wisely allocate risks.

Key Sectors Covered under the Toolkit





Case Study: Construction of Water Treatment Plant on PPP basis

S.No.	Particulars	Key Details
1.	Name of the project	Construction of water treatment plant
2.	Type of PPP (BOT, BOOT, BOLT, OMT etc.)	ВОТ
3.	Location	New Delhi
4.	Administrative Ministry/Department	Ministry of Housing and Urban Affairs (MoHUA)
5.	Implementing Agency	Delhi Jal Board
6.	Capacity (MLD)	200
7.	Estimated Project Cost (Rs. Cr)	 i. Civil Construction Cost: 400 ii. Pre-Operative Cost: 4 iii. Financing Charges: 4 iv. Interest during Construction: 50 v. 18% GST on Civil Cost: 72 vi. Total Capital Cost: 530

Case Study: Construction of Water Treatment Plant on PPP basis

S.No.	Particulars	Key Details
8.	Concession Period (years)	30
9.	Construction Period (years)	2
10.	Financing (Rs. Crore)	Equity: 30% Debt: 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

Checklist for Calculation of Contingent Liability

Checklist for Calculation of Contingent Liability



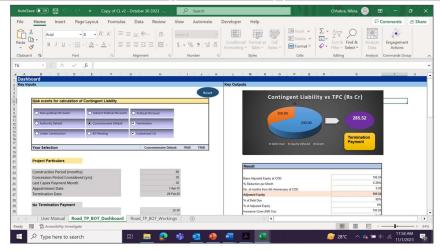
√ Total Project Cost	√ Det Due
V Concession Period	
V Concession Period	v Grant/VGF
√ Construction Period	√ Insurance Cover
√ Appointed Date	√ Insurance Claim (not admitted and paid)
V Commercial Operation Date	
(COD)	
()	
√ Termination Date	
v Debt	
√ Equity	
v Equity	

Checklist for Calculation of Contingent Liability



el el es - Celis	Sort & Find 4 Filter * Select Editing	Comments	5
ell Delete ~ es ~ Errmat ~ Cells	Sort & Find a	8. Analyze Tota Analysis Commands C	ent s
ell Delete ~ es ~ Errmat ~ Cells	Sort & Find a	8: Analyze Engagem V Data Action Analysis Commands C	5
P Q	RS	TUV	~
) P Q	RS	TUV	
Mode BOT	-		

Step 2: Once the selections are made, press submit. Dashboard and workings sheet will appear



Step 3: Risk Event Selection

isk events for calculation	n of Contingent Liability		
O Non-political FM Event	O Indirect Political FM Event	O Political FM Event	
Authority Default	O Concessionaire Default	Termination	
O Under Construction	AD Pending	Customized CA	

The Dashboard Page consists of Key Inputs and Key Outputs. On the Key Inputs side, following actions are required:

- 1. Select the Risk Event
- 2. Select Termination/Non-termination
- 3. Select Customized CA, if not based on Model Concession Agreement
- 4. Provide Project Details/Particulars Key Dates, Concession Period, Construction Period, Means of Finance, etc.

Step 4: Key Inputs to be Edited/Updated

B C D E F	G	Н	
Debt Due		200.00	
Insurance Cover		100.00	
Insurance Claims (not admitted and paid)		50.00	
Concretinguite			
General Inputs	_		
Year count for 4th Anniversary		4 Yrs	
Click here to update WPI figures if project timeline is not between	2011-2021		
Click here to update Norms.			

Once the key project features are provided, Users can click on the **clickable links** provided on the **Dashboard** to update/change:

- 1. WPI figures
- 2. Norms/Articles/Clauses for Termination Payment
- 3. Other Key Inputs, if any

Step 4: Key Inputs to be Edited/Updated

4CA Norms & Values	Auto-filled L116-122; M116-122:			Selected Option		7			
Risk event		% of Adjusted Equity as per MCA	Insurance Cover switch	Insurance Claim switch	Norms	o' Norms - Non Termination	Clauses as per MCA	Debt due as per Customized CA	Adjusted Equity as per Custernized CA
Ion-political FM Event	90%		1	1	If Termination is on account of a Non- Polical Event, the Authority shall make a Termination Payment to the IT termination is on account to the	NA	Phyponal, Anticle 34 & 37	100.00%	0.00%
ndirect Political FM Event	100%	10%	1	1	Indirect Political Event, the Authority shall make a Termination Payment to the Concessionaire in an amount equal to: (a)Debt Due less Insurance	Uppn occurrence or an indirect manual swert, an Force Majeure Costs attributable to such Indirect Political Event, and not exceeding the Insurance Cover for such Indirect Political Event, shall be borne by the Concessionaire, and to the extent Force Majeure Costs exceed such Insurance Cover, near balf of such excees encored shall be	Proposal, Article 34 & 37	80.00%	150.00%
Political FM Event	100%	150%	1	1	If Termination is on account of a Political Event, the Authority shall make Termination Payment equal to (although the and (b) 2007 of the Payment and (b) 2007 of the		Physical Article 34 & 37	90.00%	100.00%
uthority Default	100%	150%	,		Authority Default, the Authority shall make Termination Payment equal	NA	Proposal, Article 34 & 37	90.00%	100.0075
Concessionaire Default	90%		1	1	In Concessionaire Default, the Authority Concessionaire Default, the Authority shall pay to the Concessionaire, an amount equal to 90% of the Debe Due	NA	Proposal, Article 34 & 37	90.00%	100.00%
D Pending					U.S For the avoidance of doubt, the Concessionaire hereby acknowledges	NA	Proposal, Article 34 & 37	90.00%	100.00%
Inderconstruction	-				that no Termination Payment shall be 0% - For the avoidance of doubt, the Concessionaire hereby acknowledges	NA	Phanasal Article 34 & 37	90.00%	100.00%

In case of Concession Agreement being based on the **Model Concession Agreement**, **Norms** will be auto-filled in based on the clauses provided in the MCA.

Risk event	Debt due as per Customized CA	Adjusted Equity as per Customized CA	Insurance cover	Insuran ce claim	Any other Clause (please provide the value	Clauses as per the DCA/Signe d CA
Non-political FM Event	100.00%	0.00%				
Indirect Political FM Event	80.00%	150.00%				
Political FM Event	90.00%	100.00%				
Authority Default	90.00%	100.00%				
Concessionaire Default	90.00%	100.00%			100	
AD Pending	90.00%	100.00%				
Underconstruction	90.00%	100.00%				

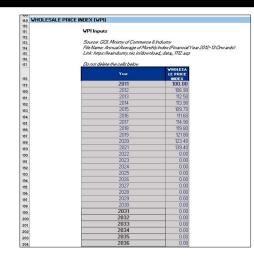
Step 4: Key Inputs to be Edited/Updated

In case of Customized CA, the User will need to termination payment clauses/norms for risk events to be updated

Step 5: Workings would be updated based on Key Inputs

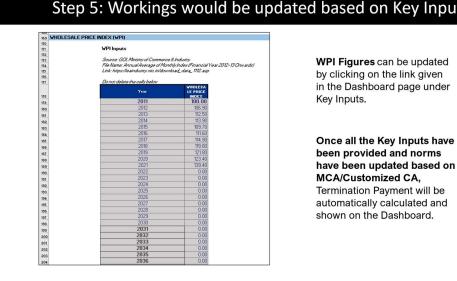
	Model Concession Agreement	Authority Default	100%	150%	1	1	account of a Authority Default, the Authority shall make Termination Payment	NA	
	Customised CA	Authority Default	90.00%	100.00%	0	0	0	0	
		Selected option % of Debt Due % of Adjusted Equity Insurance Cover switch Insurance Claim switch Any other Clause	Based on Authorit 100% 150% 1			2 to be udded 2 to be udded			
	surance			Based on MCA		Customized C			
		Insurance Cover Insurance Cover switch Insurance Cover (INR Crs)	100.00	MR Cri InDi; De Cri MR Cri	100.00 0	RR Cr			
2		Insurance Claim Limit Insurance Claims (not admitted an Insurance Claim svitch Insurance Claims	nd paid)	50.00	2 - Proposel, Article 34, Not NR Cr NGc 0x011 NR Cr	50.00	ts to per Custoniced CA ARC Dr ARC Dr		
1	ermination Payment								
		Insurance Cover Insurance Claims Unclaimed Insurance Cover			887 Cr) 887 Cr2 887 Cr2	100.00 0.00 100.00	INR CH		
2 2 4		Debt Due Unclaimed Insurance Cover Net Debt Due		200.00 60.00 200.00	MR Cri MR Cri	200.00 100.00 200.00	MR Cu MR Cu		
5		% of Debt Due Net Debt Due Termination Payment - Debt			MR Cri MR Cri		NR Cri NR Cri		
2		% of Adjusted Equity Adjusted Equity		150% 105.52		100%			

Step 5: Workings would be updated based on Key Inputs



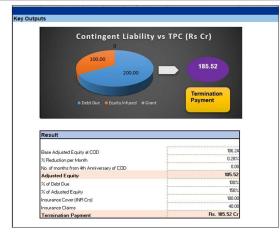
WPI Figures can be updated by clicking on the link given in the Dashboard page under Key Inputs.

Once all the Key Inputs have been provided and norms have been updated based on MCA/Customized CA, Termination Payment will be automatically calculated and shown on the Dashboard.



Step 5: Workings would be updated based on Key Inputs

Step 6: Key Outputs for Calculation of Contingent Liability



Termination Payment for the selected risk event is shown on the Dashboard

Important inputs for calculation of Termination Payment:

- Adjusted Equity
- Debt Due
- Insurance Cover
- Force Majeure Cost



•••	Managing contingent liabilities or financial commitments arising from PPP projects
	Educate the Project officer about contingent liabilities
X	Ensure proper management of project risks
8	Provides easy to understand analytical tools
٢	It is time saving and cost-effective process

