INDIA: Maharashtra Resilience Development Project Identification Mission

June 24-28, 2024

Aide Memoire

I. INTRODUCTION

- 1. A World Bank team¹ carried out the identification mission for the Maharashtra Resilience Development Project (MRDP) during June 24–28, 2024. The mission's objectives were to: (i) discuss the project development objective, scope, and types of activities to be financed; (ii) agree on the institutional arrangements for project preparation and implementation; and (iii) identify project components and component-wise activities.
- 2. We would like to thank the Government of Maharashtra (GoM), and in particular the support and collaboration extended by the Maharashtra Institution for Transformation (MITRA), the Water Resources Department (WRD), the State Relief and Rehabilitation Department (R&R), and the Municipal Corporations of Sangli, Kolhapur, and Ichalkaranji. This Aide Memoire summarizes the findings and observations of the World Bank team and agreements reached, as discussed at the wrap-up meeting on June 28, 2024, chaired by Dr. Nitin Kareer, Chief Secretary, GoM, and by Mr. Praveen Pardeshi, CEO, MITRA.

II. PROJECT DATA AND MILESTONES

Table 1: Key Project Data

Government Request	Proposed Financing	Implementation Period
GoM submitted the Preliminary Project Proposal (PPR) to the Department of Economic Affairs (DEA) in May 2023	IBRD: US\$280 million	2025–2030 ²
Screening Committee of DEA approved the project proposal on December 19, 2023	Counterparts: US\$120 million	
Proposed Project Development Objective (PDO)		,

¹ The mission was led by Jolanta Kryspin-Watson (TTL, Lead Disaster Risk Management [DRM] Specialist) and Satya Priya (Co-TTL, Senior Water Resources Management [WRM] Specialist, virtual participation), and included Abhas Jha (Practice Manager), Anup Karanth (Senior DRM Specialist), Deepak Singh (Lead DRM Specialist, virtual participation), Sangeeta Patel (Procurement Specialist), Savinay Grover (Senior FM Specialist), Varun Singh (Senior Social Development Specialist), Rumita Chowdhury (Social Safeguards Consultant) Neha Vyas (Senior Environmental Specialist), Yukio Tanaka (Senior Water Resources Specialist), Vijaysekar Kalavakonda (Senior Operations Specialist, IFC), Devika Panse (DRM Analyst), Sheena Arora (DRM Specialist), Tjark Gall (Urban Resilience Specialist), Dr. Abhijit Saha (Water Infrastructure Specialist), and Atul Khurana (Senior Program Assistant).

² Extended to 2030 to reflect five year project duration as requested by MITRA during the mission.

To enhance resilient development in Maharashtra through climate-informed and integrated flood, drought, and landslide risk management, and develop state capacity for climate-informed disaster risk management.

Proposed Components	Implementing Agencies
Climate-Informed Flood Risk Management	PIU WRD (MKVDC)
Multi-Hazard Resilience in Districts and Cities	PIU Sangli (SMKMC), PIU Kolhapur (KMC), PIU Ichalkaranji (IMC)
Upgrading Emergency Management Capacities	PIU R&R
Private Capital Mobilization for Risk Financing and Fiscal Resilience	PIU DoF
Implementation Support and Knowledge Management	PMU-MITRA

- 3. The proposed project components and activities³ under preparation are as follows:
- 4. **Component 1 Climate-Informed Flood Risk Management:** Reduce fluvial flood risk in the upper-Krishna sub-basin through a mix of mitigation solutions, including (a) Climate-informed reservoir operations, enhancement of data acquisition, data analysis and data utilization for reservoir operations towards better flood risk management, (b) Flood risk mitigation works in the Krishna River system identified and prioritized through a mathematical modeling exercise to determine their relative and collective effectiveness for flood mitigation, and (c) Feasibility studies for proposals to moderate extremely high flood intensities and reduce drought risk.
- 5. **Component 2 Multi-Hazard Resilience in Districts and Cities:** Enhance resilience of selected vulnerable areas through: (a) *Landslide risk mitigation* in hotspots of selected districts using gray infrastructure where needed and green where possible, as well as landslide risk monitoring systems. (b) *Urban flood risk mitigation*, e.g., creating detailed risk assessments, maps, and resulting programs of measures, including storm water drainage and nature-based solutions. The focus will be on innovative measures that create co-benefits for residents. Activities shall feed a state-level initiative to establish a long-term planning and financing ecosystem for urban flood resilience, including, e.g., capacity development, multi-level cooperation, and data-enabled monitoring.
- 6. **Component 3 Upgrading Emergency Management Capacities:** Strengthen emergency preparedness and response capabilities through the following: (a) Upgrade Emergency Operation Centers (EOCs) with state-of-the-art command and control facilities for improved situational awareness and decision-making, (b) Strengthen early warning systems, development of modules for lightning, landslides and flood early warning; designing effective and inclusive dissemination mechanisms through cell broadcasting; and community-based disaster risk

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³ The list of activities is preliminary and subject to further analysis and discussions.

management and early action capacities, (c) Climate-informed multi-hazard risk assessments for districts, and (d) Establishment of knowledge and learning platform for resilient development planning.

- 7. Component 4 Private Capital Mobilization for Risk Financing and Fiscal Resilience: Enhance the financing capabilities and fiscal resilience of GoM through the development of disaster and climate-risk financing mechanisms for both investments in mitigation/adaptation and post-disaster financing, linking of existing disaster risk reduction mechanisms with risk financing strategies, and transfer of disaster risks to private capital markets, e.g., development of a comprehensive strategy that bridges the gap between resilience building investments and financial protection and reduces government's financial burden in post-disaster situations; ; and through development of actuarial risk model for issuance catastrophe (CAT) bonds and/or alternate risk transfer (ART) products/solutions. Additionally, the state's risk management capabilities shall be enhanced based on global tools that will help strengthen the capability of their public financial management systems (including climate budgeting and institutional assessment) to be responsive to disaster and climate risks.
- 8. **Component 5 Implementation Support and Knowledge Management.** Project management activities include i) capacity building, and (ii) coordination, financial management, procurement, environmental and social risk management, communication, monitoring and evaluation, and stakeholder engagement (iii) development of a 'knowledge lighthouse'.

Preparation Progress

- 9. The mission discussed the status of project preparation, particularly considering DEA's readiness criteria of having 30 percent of civil work investments (about US\$120 million) ready for contracting before the negotiations, planned latest for March 2025. It was agreed that at least 35 percent of investments should be ready for contracting by March 2025, to consider potential exchange rate fluctuations or failure to attract competent bidders in certain incidences. Also, readiness conditions related to large consultancies, setting up of the project implementation arrangements and preparation of essential project documents will need to be met. The following investments have been identified as contributing to the readiness criteria:
 - a. Remodeling spillway gates of Radhanagari dam
 - b. Creating retention storages by restoration of natural drainage system
 - c. Stormwater drainage upgrades in Sangli city
 - d. Stormwater drainage upgrades in Kolhapur city

It was agreed during the mission that on-boarding of the DPR Preparation firms for these investments is a critical action for ensuring timely bidding of these works. Accordingly, the TORs for the same will be finalized and on-boarding ensured no later than September 30.

Flood Risk Mitigation Works in the Krishna River System

10. The mission reviewed the preparation status of the identified interventions by MKVDC. It was agreed that MKVDC will procure three separate consultant teams: i) one is the DPR

consultancy firm, that will primarily prepare the DPRs for the 'Feasibility Study of Krishna Basin 'Nalla' Network Rejuvenation and allied Natural Retention Storages' and 'River Cross-Section restoration and allied Feasibility Studies of different FRM Interventions for future investments', ii) another is the one that will brush-up and complete the existing DPR for Radhanagari dam spillway remodeling that misses some data and elements required for Central Water Commission (CWC) clearance prior investment; and iii) the other is Project Management Technical Consultant (PMTC) that will support the preparation of all allied project documents and successful implementation of the Project till the end of project life. Given the urgency of DEA's readiness criteria, the RFP for DPR consultant and PMTC consultant are under preparation in expedited manner to award the contracts by the end of September 2024.

Landslide Risk Mitigation

11. The mission visited two active landslide-prone sites in Kolhapur district (Shipekarwadi and site adjacent to Panhala Fort). The discussion with key stakeholders (Local community, PWD, Forest Department, Groundwater Directorate of Surveys & Development Agency) indicated that the protection measures for the two site locations would require a detailed field survey, instrumentation to understand the geological movements/ processes and arrival of suitable landslide risk mitigation measures (a combination of NbS and grey infrastructure shall be explored). The mission requested the District Administration to provide the details of all six landslide-prone sites to be included as part of the MRDP.

Strengthening of District Emergency Operation Center (DEOC) and Disaster Recovery Center (DRC) at the proposed State Institute of Disaster Management (SIDM) Campus

- 12. The mission visited the DEOC and City EOC (CEOC) of Kolhapur, Sangli and Ichalkaranji. It was noticed that the City EOC of Sangli was equipped with infrastructure on the lines of an Integrated Command and Control Centre (ICCC) with live stream from the field providing valuable information to the EOC operators. Similar infrastructure was lacking in other DEOCs and CEOCs. The DEOC at Kolhapur demonstrated a wide range of tailored initiatives/SOPS that are robust for field operations. The learnings from Kolhapur DEOC operations can be replicated in the neighboring districts and with the support of a robust DSS and strengthened capacities at DEOC and CEOC, the local administration should be capable of handling L1 and L2 disasters effectively.
- 13. It was agreed that the MRDP shall develop a training program and deliver specific skill-based training to local volunteers at the village and the district level. The strengthening of community-based DRM activities in the target districts shall also be undertaken as part of the MRDP.
- 14. The R&R Department, GoM, is proposing to establish a State Institute of Disaster Management at Nagpur. As MRDP is supporting the strengthening of DEOC and SEOC, it was proposed to the Bank mission to undertake the development of a Disaster Recovery Centre (a set up after a disaster to provide support to impacted areas and communities, backed by IT system and shared resources) at the proposed SIDM campus. The World Bank Task Team will work with the R&R Department to develop the required mechanism and outline DRC as an activity within the investment scope for R&R Department.

EWS for landslides and floods

15. The mission observed the need for setting up a landslide and flood EWS at select hyperlocal hotspots. It is proposed to deploy Local Landslide Early Warning Systems (Lo-LEWS) at critical hotspots wherein the exposure to human habitation and infrastructure is high. As the potential occurrence of landslides has increased significantly in the past 5 years, the risk of multiple landslides is extended over a larger area and for this the mission proposes to establish Territorial landslide early warning systems based on rainfall thresholds and local geological factors (Te-LEWS). The details of the LEWS will be explored further as part of the project preparation and in consultation with R&R Department, District Administration, select pilot communities and key state-level agencies including the local chapter of GSI, GSDA etc. 16. The current flood EWS is limited and has been piloted on the dissemination systems in the Kolhapur district. There is scope to significantly improve and expand this system across floodexposed villages and towns. The mission discussed the possibilities of bringing in the required technology support / Flood DSS integrated into community-based local knowledge and resources. The design of the Flood EWS will be explored in consultation with MKVDC, R&R Department, the District Administration, select pilot communities, and other key state-level agencies.

Project Implementation Arrangements

17. The Project Implementation Units (PIUs) for all the components have been identified, including the respective PIU structure and compositions. However, these are yet to be notified. It was agreed during the mission that PMU-MITRA notifies all PIUs and create budget heads for all implementation agencies, followed by the initiation of budget allocation. Key positions within the PMU and PIUs shall be filled with trained staff specializing in environmental and social management, financial management, procurement, project management, and coordination. Critical consultancies shall be hired, including MKVDC PMTC, MKVDC DPR Consultant, Municipal Corporations DPR Consultant, and the R&R Dept. PMTC.

Fiduciary (Procurement and Financial Management)

- 18. All procurement under the project will be governed by the World Bank's *Procurement Regulations for Investment Project Financing (IPF) Borrowers for Goods, Works, Non-Consulting and Consulting Services*, dated July 1, 2016 (revised in November 2017, August 2018, and November 2020). According to the requirement of the Regulations, a Project Procurement Strategy for Development (PPSD) needs to be developed based on the anticipated procurement under the proposed project.
- 19. The requested information shall be shared in the FM questionnaire. The statutory audit of annual financial statements for FY20–21 to FY23–24 needs to be completed. A Procurement Plan for the first 18 months will have to be prepared, along with a Project Procurement Strategy for Development (PPSD) and a Project Implementation Plan.

Environment Management and Social Safeguards

- 20. Applicability of the Environment and Social Framework (ESF): Environmental and social requirements applicable to the proposed project are set out in the Bank's ESF⁴. Early and holistic consideration across project documents and adequate staffing in PMU and PIUs is crucial to ensure that all environmental and social requirements are met and will not hinder the fulfillment of DEA's readiness criteria.
- 21. **Key ESF Instruments/Documents Required for Project Processing:** Based on the understanding of project contours at identification stage, an Environment and Social Assessment (ESA) for the project will be required to develop project level instruments/documents for appraisal. These will include: (i) Environment and Social Management Framework (ESMF), (ii) Resettlement Policy Framework, (iii) Indigenous People Policy Framework (IPPF); (iv) Stakeholder Engagement Plan (SEP), (v) Environment and Social Commitment Plan (ESCP); and (vi) Labor Management Procedures (LMP), including Occupational Health and Safety Plan. All instruments are to be consulted with stakeholders and disclosed prior to Appraisal, following the requirements of the ESF. The project preparation needs to create and build-in mechanisms for: (i) consultation with key stakeholders; (ii) effective, efficient, and responsive communication program for stakeholder engagement; (iii) robust real time monitoring systems for accountability and evidence-based reporting. Findings/recommendations of ESA and other documents need to be integrated into project design/detailed project reports, Bidding Documents, and Implementation Plan to be prepared for the project.
- 22. **Staffing for Environment and Social Management**: For effective leadership and coordination on EHS aspects during the entire project cycle, it is imperative that suitable staff and experts (with required qualifications and experience) are deployed by the project to discharge functions and responsibilities associated with this role. It was agreed that current Social and Environment Specialists at the PMU will closely work with social and environmental counterparts to be hired at the PIU level and they will liaise with nodal officials from Implementation Agencies. Additional specialists will be required at both PMU level as well as at PIUs to provide the required support for project preparation and eventually its implementation. The mission requested the PMU to formalize the implementation arrangements and fill-in vacant positions at the earliest to fully kick start preparatory activities for EHS management. Specifically for social safeguards, it was agreed that three specialists (social development, gender, and labor) will be hired at the PMU level. This team will work with the social specialists hired at the PIU level. With increasing dependence on contractual staff, the proposed project will require developing a comprehensive Human Resource Policy for the direct employees which will enable the proposed project to align the requirements of World Bank's ESF.

Gender and Citizen Engagement

23. The project will seek to address gender gaps in the areas of climate change and disasters. Women are severely underrepresented in the state's disaster preparedness institutions. To address this issue, the project will aim to promote female employment, for example, in the State Disaster Response Force. During preparation, a gender action plan will be developed together with indicators to track the progress to increase women's participation in the workforce in the

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⁴ https://www.worldbank.org/en/projects-operations/environmental-and-social-framework

state. Continuous citizen engagement, using different modes of engaging with stakeholders throughout the project, and adopting a structured approach for which SEP will be prepared in accordance with the ESF.

III. NEXT STEPS AND AGREED ACTIONS

Table 2: Proposed Tentative Milestones

Preparation	Appraisal	Negotiations	Board
01/16/25	02/06/25	03/13/25	05/29/25

The key next steps for PMU and PIUs are as follows:

MITRA

- 1. Notify, create budget heads for, and ensure staffing of PIUs by July 31, 2024.
- 2. Prepare Procurement Plan for first 18 months and Project Procurement Strategy for Development (PPSD) by August 10, 2024.

MKVDC, Municipal Corporations, and Dept. of R&R

- 1. Initiate bidding for the respective Project Management Technical Consultants (PMTC) by July 15, 2024, and ensure that hiring is completed by September 30, 2024.
 - a. MITRA will conduct procurement for technical/ project management consultants hired for the municipal corporations. Procurement for urban flood mitigation will be done as a joint RFP by MITRA to enable synergies of flood mitigation across the three cities of Kolhapur Sangli and Ichalkaranji
 - b. MKVDC and Dept. of R&R will undertake procurement of their respective technical/ project management consultants.
- 2. Finalize bid documents for civil works identified as contributing to DEA's readiness (MKVDC & Municipal Corporations) by October 31, 2024, and deploy technical consultancies for achieving DEA's readiness by January 31, 2025.

To ensure fast progress in the proposed project preparation, the timely completion of the detailed actions listed in Table-3 is critical.

Table 3: Agreed Next Steps

	Action	Agency	Deadline
Р	Project-level Key Actions		
P1	Notify all PIUs, create budget heads for all implementation agencies, and initiate allocation of budget	MITRA	Jul 15
P2	Fill key positions in PMU/PIUs with trained staff for environmental and social management, financial management, procurement, project management and coordination	All IAs	Jul 31
Р3	Hire critical consultancies, incl. • MKVDC PMTC	MITRA	Sep 30

MKVDC DPR Consultant Municipal Corporations PIU Municipal Corporations DPR Consultant R&R Dept. PMTC Prepare bid documents and requests for proposals and invite bids, evaluate and finalize awards in line with DEA requirements of 30 percent of civil works to be in the contract award stage before negotiations. Component 1: Climate-informed Flood Risk Management 1.1 Share notified organizational chart and PIU structure with the World Bank Share notified organizational chart and PIU structure with the World Bank 1.2.1 Share RFPs for DPR and PMTC consultancies with the World Bank MKVDC Jul 12 1.3 Share maps and GiS layer related to the proposed investments and estimated number of people affected by the project with the World Bank Component 2: Multi-Hazard Resilience in Districts Conduct procurement for technical consultants to support DPR preparation of municipal corporations Component 2: Multi-Hazard Resilience in Districts 1.2 Finalize DPRs for Sangli and Kolhapur city corporations KMC, SMKMC All IAS MKVDC Jul 12 MKVDC Jul 12		Action	Agency	Deadline		
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	Action	Agency	Deadline
4.2	Scope risk transfer mechanisms, incl. catastrophe bonds, catastrophe risk pooling for LGUs, results-based financing for climate resilience, enhancing financial resilience of municipal corporations in discussion with World Bank Treasury and Department of Finance Maharashtra	DoF	July 31
FM/P	Fiduciary (Financial Management [FM] and Procurement [Pr])		
FM1	Create budget line for MRDP and make available to the implementing agencies	MITRA	Jul 31
FM2	Share requested information in FM questionnaire	MITRA	Jul 31
FM3	Complete statutory audit of annual financial statements for FY20–21 to FY 23–24	MKVCD, 3 MCs	Oct 31
Pr1	Prepare Procurement Plan for first 18 months	MITRA	Jul 15
Pr2	Prepare Project Procurement Strategy for Development (PPSD)	MITRA	Jul 31
Pr3	Prepare Project Implementation Plan	MITRA	Oct 31
ES	Safeguards		
ES1	Assign Nodal E&S Officials	MITRA	Jul 5
ES2	Designate Nodal E&S Officers (existing officials)	PIUs	Jul 15
ES3	Appoint E&S Experts (with prior experience of Bank's safeguards)	MITRA	Jul 31
ES4	Engage E&S Experts to support preparatory activities (screening, TOR preparation, ESMP preparation)	PIUs	Jul 31
ES5	Engage a Consultancy Firm for preparing project level E&S instruments	MITRA	Aug 15

Annex 1: List of Officials Met List of Government of Maharashtra Officials Met During the Mission

Name	Designation
Dr. Nitin Kareer	Chief Secretary
Mr. Praveen Pardeshi	CEO, Maharashtra Institution for Transformation (MITRA)
Dr. Rajendra Bharud	Joint CEO, Maharashtra Institution for Transformation (MITRA)
Mr. Deepak Kapoor	Additional Chief Secretary, Water Resources Department
Dr. Sanjay Belsare	Secretary, Water Resources Department
Mr. Lahu Mali	Director of Disaster Management, Department of R&R
Mr. Atul Kapole	Executive Director, Krishna Valley Development Corporation
Mr. Shreedutt Kamath	State Training and Capacity Building Officer
Mr. Amol Yedge	District Collector, Kolhapur
Mr. K. Manjulekshmi	Municipal Commissioner, Kolhapur Municipal Corporation (KMC)
Mr. Shubham Gupta	Municipal Commissioner, Sangli, Miraj and Kupwad Municipal
Time Shabham Sapta	Corporation (SMKMC)
Mr. Omprakash Divate	Municipal Commissioner, Ichalkaranji Municipal Corporation (IMC)
Mr. H.V. Gunale	Chief Engineer, Pune Division (Nodal Officer for Krishna Bhima Sub-
IVII. II.V. Gullale	Basin)
Ms. Smita Mahne	Executive Engineer, Kohlapur
Mr. Yogesh Sawant	Executive Engineer, ITI
Dr. H.T. Dhumal	Chief Engineer, Nodal Officer for Bhima Basin
Prasad Sankpal	Disaster Management Officer, Kolhapur

Annex 2: Mission Schedule (June 24–28, 2024) at Mission Start

Time	Meeting	Location	Objectives	Participants
Day 1: J	une 24, Monda	У		
10:00 to 12:30	Mission Kick- Off	Sahayadri, Mumbai	 Overarching review of progress on agreed actions Project implementation arrangements E&S Procurement & FM Mission agenda and expectations 	GoM: MITRA, WRD, R&R Dept, MKVDC, DoF World Bank: In-Person Jolanta, Anup, Yukio, Tjark, Sheena, Vijayasekar, Sangeeta, Neha, Varun, Savinay, Atul
				Virtual Satya, Deepak, Abhijit
12:30 to 13:30	Discussions on Component 4: Private Capital Mobilization for Risk Financing and Fiscal Resilience	Sahayadri, Mumbai	Identify: - Project activities - Institutional structure for managing the Climate and Disaster Risk Financing including for both mitigation/adaptation investments and post- disaster recovery and reconstruction financing	GoM: MITRA, DoF World Bank: In-Person Jolanta, Anup, Tjark, Sheena, Vijayasekar, Sangeeta, Neha, Varun, Savinay, Atul
13:30		m A departs fro	om Mumbai to Pune by	TEAM A:
to 14:00	Road			Yukio, Varun, Neha, Sangeeta, Savinay
14:30 to 17:30	Discussions on Component 3: Upgrading State Emergency Managemen t Capacities	Department of R&R, Mumbai	Identify investments, institutional arrangements and next steps for: - Emergency Operations Centers (SEOC, DEOC, emergency communications) and GIS Lab	GoM: R&R Dept World Bank: TEAM B:

Time	Meeting	Location	Objectives	Participants
			 Early Warning and Cell Broadcast Landslide Hazard Assessment and EWS Community First Responder Training Climate inclusive multihazard risk vulnerability assessment Resilience planning and design learning platform PMTC, TPQA and PIU Operations 	Jolanta, Anup, Sheena, Vijayasekar
14:00 to 16:00	Nature Based Solutions Opportunity Scan	MRSAC, Mumbai	Data Requirements for the NBSOS being undertaken by GFDRR for three project cities	GoM: MRSAC, MITRA World Bank: Tjark
Overnig	ght stay in Pune	and Oberoi		
Day 2: J	une 25, Tuesda	у		
Pune Sc	hedule			
10:00 to 12:00	E&S Requirement s for Component 1: Climate Informed Flood Risk Managemen t	MKVDC, Pune		GoM: MKVDC World Bank: Yukio, Dr. Abhijit, Varun, Neha, Savinay, Rumita, Sangeeta
12:00 to 13:00	FM and Procurement for Component 1: Climate Informed Flood Risk Managemen t	MKVDC, Pune		GoM: MKVDC World Bank: Yukio, Dr. Abhijit, Varun, Neha, Savinay, Rumita, Sangeeta

Time	Meeting	Location	Objectives	Participants		
13:00			Kolhapur by road (approx.	Varun, Neha, Savinay,		
to		hrs., 233 kms v	Rumita			
18:00	highway and NH 48)					
14:00	Discussions	MKVDC	Discussions on:	GoM: MKVDC		
to 17:00	on Component	Office, Pune	- PMTC RfP			
	1: Climate		- DPR for Radhanagari Dam upgrades	World Bank:		
	Informed		- ToR for re-sectioning			
	Flood Risk Managemen		and removal of	Yukio, Dr. Abhijit, Sangeeta		
	t		obstructions in Krishna			
			River - Status of studies on (a)			
			Identification of			
			obstructions to review			
			flow and b) Identification of nallas to be stored.			
Kolhapu	ır Schedule					
09:30	TEAM B: Trave	l from Mumbai	Jolanta, Anup, Sheena,			
to	161 departs at 9:30 am and arrives in Kolhapur at 10:35			Tjark, Vijayasekar, Atul		
10:30	am.					
12:00	Discussions	Kolhapur	Discussions on:	GoM: KMC, MITRA		
to 14:00	on Component	Municipal Corporation,	- SWD drainage DPRs			
	2: Multi-	Kolhapur	- Identifying additional	World Bank: Jolanta,		
	hazard		investments	Anup, Sheena, Tjark,		
	Resilience in Districts			Vijayasekar		
14.20		Volbor:::				
14:30 to	Site visits to SWD sites	Kolhapur				
17:30	and					
	continued					
	discussions at KMC					
0	Overnight stay in Pune and Kolhapur					
	•	<u> </u>				
-	une 26, Wedne	saay				
Sangli S	chedule					

Time	Meeting	Location	Objectives	Participants
08:30 to 09:30	Team A travel km) via NH166	•	to Sangli 1:10 hours (46.8	
10:00 to 13:00	Discussions on Component 2: Multi- hazard Resilience in Districts	SMKC, Sangli	Discussions on:SWD drainage DPRsIdentifying additional investments	GoM: SKMC, MITRA World Bank: Anup, Vijayasekar, Tjark
10:00 to 13:00	Site visits to SWD sites and continued discussions at SMKC	Sangli		
Ichalkai	ranji Schedule			
08:30 to 09:30		from Kolhapur and Kolhapur	to Ichalkaranji 45 min (27.7 Road	
14:00 to 16:30	Discussions on Component 2: Multi- hazard Resilience in Districts	IMC, Ichalkaranji	Discussions on identifying project investments	GoM: IMC, MITRA World Bank: Jolanta, Sheena, Savinay
14:00 to 16:30	Site visits to SWD sites and continued discussions at IMC	Ichalkaranji		
16:30 to 17:30	Virtual Meeting with GFDRR and all	Virtual (teams join from their respective locations)	Introduction to the proposed NBSOS, data requirements and consultations on scoping the scan process	Anup, Vijayasekar, Tjark, Jolanta, Sheena, Savinay

Time	Meeting	Location	Objectives	Participants		
	Municipal Corporations					
Pune Sc	hedule	I				
10:00 to 17:00	Discussions on Component 1: Climate Informed Flood Risk	MKVDC, Pune	Continued from Day 2.	GoM: MKVDC World Bank: Yukio, Dr. Abhijit		
	Managemen t					
Overnig	ht stay					
Day 4: J	une 27, Thursd	ау				
Pune Sc	hedule					
10:00 to 14:00	Discussions on Component 1: Climate	MKVDC, Pune	Continued from Day 3.	GoM: MKVDC World Bank:		
	Informed Flood Risk Managemen t			Yukio, Dr. Abhijit		
16:00	Depart from Pune to Mumbai			Yukio		
Kolhapu	ır Schedule			,		
07:00 to 12:00	Visit to landslide prone sites in Kolhapur	Kolhapur		GoM: KMC, Dept. Of R&R World Bank: Anup, Jolanta, Neha, Rumita, Savinay, Sheena, Tjark, Varun, Vijayasekar		
14:10 to 14:55	Depart from K	olhapur for Mu	mbai Star Airlines	Anup, Jolanta, Neha, Savinay, Sheena, Tjark, Varun, Vijayasekar, Yukio, Devika, Atul		
Overnig	ht stay					
Day 5: J	Day 5: June 28, Friday					

Time	Meeting	Location	Objectives	Participants
16:00-	Mission	Sahayadri,		GoM: MITRA, WRD, R&R
17:00	Wrap Up	Mumbai		Dept, MKVDC, DoF
				World Bank: Abhas, Anup,
				Deepak, Jolanta, Neha,
				Savinay, Sheena, Tjark,
				Varun, Vijayasekar, Yukio,
				Satya (virtual), Atul
	Departure			All World Bank Task Team
				members