

Subject:	Minutes of MRDP meeting with relevant departmental officials, World Bank Team, and MITRA Team.	Meeting Date 23/04/2024
Venue:	Sahyadri Guest House, Malabar Hill, Mumbai	
Created By:	Sandesh Barbole and Prashant Mhaske (YPs, MITRA)	

Participants from MITRA:	Other Participants:
<ul style="list-style-type: none"> • Praveen Pardeshi Retd. IAS (CEO) • Sushil Khodwekar IAS (Joint CEO) • Pramod Shinde (Jt. Secretary) • V. K. Patil (Director/Finance) • D. V. Dalvi (Director/ Initiatives) • Jayant Bhoir (Under Secretary) • Rahul Melawane (Accounts Officer) • Prakash Pol (Research Officer) • Viraj Loliyana (Sr. Consultant) • Parashram Patil (Sr. Consultant) • Vinay Zote (Sr. Consultant) • Prasad Rankhambe (Research Officer) • Prashant Mhaske (YP) • Gaurav Nemade (YP) • Sachin Borse (YP) • Sandesh Barbole (YP) • Utsav Sodha (YP) • Chetan Bhakkad (Partner/GTB) • Pratik Hegde (Consultant/GTB) • Nikhil Pangam (Consultant/GTB) • Varsha Menon (Consultant/GTB) • Avinash Mitra (Consultant/KPMG) 	<ul style="list-style-type: none"> • O. P. Gupta IAS (ACS, Finance Dept.) • L. S. Mali IAS (Director, SDMA) • Shubham Gupta IAS (Municipal Commissioner, Sangli) • Atul Kapole, (Executive Director MKVDC, Pune) • Sanjiv Tatu (Jt. Secretary & Chief Engineer, Irrigation) WRD • Abhijit Mhetre (S.E,Kolhapur - MKVDC) WRD • Sarat Panda (Team Lead, PMU-SMU) SDMA, R&R • Akshay Srivastava (DRR Expert – DMU) R&R • Shreedutt Kamat (State Project Officer, UNDP) R&R • City Engineer, Kolhapur Municipal Corporation • Prasad Sankpal • Jolanta (World Bank) • Satya (World Bank) • Deepak Singh (World Bank) • Anup Karanth (World Bank) • Savinay Grover (World Bank) • Rumita Chowdhury (World Bank) • Sheena Arora (World Bank) • Swati Pillai (World Bank)

Sr. No.	Topic	Discussion	Decision Taken	Assign To
1.	Introduction for R&R dept. activities	<ul style="list-style-type: none"> R&R department made tentative investment matrix for about 680 cr. and that is spread across following prime activities: <ol style="list-style-type: none"> Modernizing the emergency operations. Strengthening the early warning system for landslide, flood, etc. Disaster analytics, planning and financial products. Flood and landslide mitigation aspects. Initially as per discussion with State Disaster Management Authority (R&R department), the amount decided for project was 680 cr. But designs of Emergency Operation Centres (EOC) both as state and district level will not be financed by World Bank because there are provisions under 15th Finance Commission to fund these centres. Because of this, the amount reduced to 580 cr. Hence, the balance of 100 cr. will remain. World Bank asked that is it possible to use this 100 cr. for strengthen the emergency response system in the state? Cost of infrastructure construction and installation will be borne by R&R Dept. (State Disaster Management Authority) and the cost for other systems such as Decision Support System (Anticipation System) will be funded by World Bank. It should be available at each city and all districts. 		
2.	Modernizing Emergency Operations	<ul style="list-style-type: none"> State Emergency Operation Centre (SEOC) and District Emergency Operation Centre (DEOC) will be done throughout the state. Initially few districts will be selected for implementation i.e. Kolhapur and Sangli. There is a requirement of documents of modernization of existing SEOCs and DEOCs. There will be not only transmission of information from SEOC to DEOC but DEOC can also obtain a lots of ground level data to create local impact information data so that it comes to SEOC. There is no information flow from DEOC to SEOC and vice-versa. It will be good to include hardware, 		

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		<p>software, and human-ware part of the system that will be integrated as the SEOC and DEOC.</p> <ul style="list-style-type: none"> • The Geospatial laboratory which will be integrated at SEOC level, not at DEOC level and this laboratory will also be responsible for bringing in Hazard Risk (HR) support. • Emergency Communication System will also be integrated with SEOC and DEOC. • Integration of both hardware and associated decision-making software/ systems for conceptualization and RFP as one. 	<ul style="list-style-type: none"> • Hire a consultancy from outside and they should sit within the EOC for next 2-3 months for conceptualization and RFP of both hardware and software. 	State Disaster Management Authority, Relief & Rehabilitation Dept.
3.	Strengthening Early Warning System	<ul style="list-style-type: none"> • Strengthening Early Warning Systems, primarily for landslides which can be integrated and installed at Kolhapur and Sangli. • About Lightning Early Warning System (EWS), there is a provision under 15th finance commission through which this activity can be taken up. It should be installed and put under observation for couple of years. Depending on the observation, the particular component of Lightning EWS should be selected or excluded. And the alert system should not be only by means of mobile but also by local indigenously developed siren system. Additional item will be cell broadcast system. 	<ul style="list-style-type: none"> • Component should not be dropped but revived. It will be useful specially in Marathwada region where people have died due to lightning. 	World Bank & State Disaster Management Authority, Relief & Rehabilitation Dept.
4.	Disaster Risk Analytics, Planning, and Financial Products	<ul style="list-style-type: none"> • Agreed on climate inclusive multi hazard risk vulnerability assessment for Maharashtra. There is a need for actionable points from consultancy reports. Reports should not be generic. Consultancy like Indian Tropical Meteorology Institute should be engaged. Involving Municipal Engineer from Mumbai, Kolhapur and Sangli. 		

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		<ul style="list-style-type: none"> Resilience planning and design learning platform (modules, trainings) should not be dropped. Consultancy may work into this to plan it at micro level. There are existing reports by the Flood Mitigation Committee, Sangli, Irrigation Department, and the IIT Roorkee for Storm Water Drainage Plan. Those should be treated as a baseline and comprehensive DPR to be prepared. 	<ul style="list-style-type: none"> This component shall be revived at micro level Working group shall be formed including Field Officers, Consultants for project report preparation. 	State Disaster Management Authority, Relief & Rehabilitation Dept.
5.	Flood and Landslide Risk Mitigation Investments	<ul style="list-style-type: none"> DPR for Storm Water Drainage was prepared by Kolhapur Municipal Corporation with project cost around 456 Cr. 100 Cr. Can now be added to the Urban Flood Risk Mitigation Component of MRDP in Kolhapur and Sangli. Tree plantation by Miyawaki method along the slope can be done inorder to mitigate the landslides. 	<ul style="list-style-type: none"> Water has to be channelised better and force of water to be reduced. Create a Green Wall of local indigenous species like Miyawaki method to mitigate landslides. Create working groups which may include WRD, Kolhapur and Sangli Municipal Corporation for DPR preparation. 	