

MINUTES OF KICK OFF MEETING ON DESIGNING OF COMPREHENSIVE MULTI-HAZARD RISK FINANCING STRATEGY (CMhRFS) HELD ON 16/7/2021 AT 10:30 HRS AT NDMA BHAWAN, NEW DELHI.

The Kick-off meeting on Design of CMhRFS was held on 16/7/2021 at 10:30 hrs. under the Chairmanship of Joint Secretary & Project Director, NCRMP, NDMA. The meeting was attended by officials from NDMA, DFS, IRDAI & World Bank, Nodal officers from project States, and representatives from M/s Air Worldwide Corporation, USA (and project partner Guy Carpenter). The list of participants is attached at **Annexure – I**.

2. The meeting started with a welcome note from NDMA. The Consultant team made a presentation, highlighting project Goals, Approach & Methodology being adopted, Outcomes, role of State Government, and intervention required from different stakeholders.

3. Consultant briefed about the Approach, Methodology, Catastrophe Model and three AIR's Modules (i. Tropical Cyclone, ii. Earthquake & iii. Flood Hazard), collection and collation damages assessment reports, Insurance losses, and other historical losses from past events. The consultant has also stated that an optimal Disaster Risk Financing Strategy will be designed under this project.


4. The following key issues were highlighted and the Consultants were requested to address/factor them-in as part of the study:

- I. Availability of historical data, including both exposure and hazards, will be critical to estimating probable (disaster) losses from future events within 3% to 5% degree of confidence. Hence, it is important to map out data needs vs. data availability, and plan to address the data gaps.
- II. As a preliminary exercise, Consultant(s) were requested to share a use case scenario of the disaster loss estimation model based either by way of extrapolating the approach in neighbouring countries and/or earlier work for specific hazards/perils or region(s)/state(s) in India.
- III. Identify and flag potential areas of disaster mitigation/risk reduction/prevention which could be undertaken by the States to reduce potential losses.
- IV. Factor in/address the apprehensions around parametric insurance, specifically ensure robust validation of triggers particularly given some challenges vis-a-vis parametric insurance products in developing countries and India's own experience with Weather-Index Based Crop Insurance (WBCIS).

5. After deliberation involving views/suggestions of participants, the following decisions were made:

- I. Consultant shall develop database in terms of economic & financial losses, and also identify sources of historical loss data from project states and the associated gaps in data and limitations of existing data. Database of the existing model to be augmented and gaps to be filled in.
- II. Consultant shall identify data required, other than historical loss data, beyond what may be readily available publicly or from open sources. For instance, data compiled as part of Post-Disaster Needs Assessment by the State Government(s) following major disasters.
- III. Consultant will share the case studies already done previously relevant to the current assignment/task e.g., on measurement of disaster impacts/losses, disaster insurance, risk mitigation etc.
- IV. Consultant shall develop State-specific hazard modules based on their vulnerability/exposure to disasters, geography, and economic exposure (asset concentration) & Consultant has confirmed that AIR Modules covers entire India but not State-specific.
- V. Parametric models used in other countries need to be customized in Indian context.
- VI. Risk module depends on actual data from past disasters; insurance industry data on hazards and losses should be validated by the Consultant.
- VII. The State Governments will provide the historical data at the time of drafting the catalogue on catastrophe risk profile for the States.
- VIII. The speed, quality and financing strategy of the project will depend on the data available with Consultant and data will be built by the consultant during the project.
- IX. States Government has disaster specific database pertaining to Public & Private assets. Consultant shall develop and share a format for collection of required data from the States.
- X. States, particularly State Disaster Management Authorities (SDMAs) have a huge repository of data, including exposure and hazards, and hence it is important to collect/collate the data from the participating States. Odisha and Uttarakhand have built huge database on asset exposure as part of World Bank funded disaster management projects. Additionally, Uttarakhand has developed a robust Cat Model to estimate potential probable losses due to different types of disasters. Consultants should validate their results against these models.

- XI. Under the NCRMP Project, Coastal States have built-up exposure data and different type of modules. Consultant may also use these data & bring into uniform shape for execution of the project.
 - XII. Similar studies done by the World Bank in South Asia region may be used for this project.
 - XIII. Respective State Govt. will be required to provide/share the database including historical disaster loss and exposure data (i.e., public assets including infrastructure assets and private assets primarily housing stock) readily available with them for smooth execution of the project.
 - XIV. Study will involve assessment of hazard, direct losses, population losses, and emergency losses of the four States (Kerala, Gujarat, Odisha and Uttarakhand).
 - XV. It was suggested that a follow-up discussion be organized between NCRMP team and the Consultants to decide on the scope of agriculture related losses to be included as part of the study.
 - XVI. Consultant shall establish the relationship between pre event & post event financing.
 - XVII. Insurance marketing to be explored in Indian context by the Consultant.
 - XVIII. The World Bank will share link of the database from landslide studies completed in Uttarakhand State. All these information is also available with the State.
 - XIX. The Consultant has indicated in the presentation that the project timeline shall be started from the date of Kick off meeting. NDMA said that the request of the consultants for starting the time line from the Kick off meeting, will be examined and decision of the competent authority will be conveyed.
6. The meeting ended with thanks to the Chair and all the participants.


20.07.2021
(Sanjay K Sharma)
Project Manager
NCRMP, NDMA

Annexure – I**MINUTES OF KICK OFF MEETING ON DESIGNING OF COMPREHENSIVE MULTI-HAZARD RISK FINANCING STRATEGY (CMhRFS) HELD ON 16/7/2021 AT 10:30 HRS AT NDMA BHAWAN, NEW DELHI.**

Sl. No.	Name of Officials with Designation	Organisation
1	Ms. Sreyasi Chaudhuri Joint Secretary & Project Director, PMU	NDMA
2	Sh. Ravinesh Kumar Financial Advisor	NDMA
3	Sh. Samir Kumar, Dy. Project Director, PMU	NDMA
4	Sh. Sanjay Kumar Sharma Project Manager, PMU	NDMA
5	Sh. Tinku Kumar Procurement Specialist, PMU	NDMA
6	Sh. Saurabh Mishra Joint Secretary, Insurance	DFS
7	Sh. Anup Karanth Task Team Leader	The World Bank
8	Sh. Vijayasekar Kalavakonda Senior Operations Officer, IFC	The World Bank
9	Ms. Sheena Arora Disaster Risk Management Consultant	The World Bank
10	Sh. Peeyush Ramawtar S Disaster Risk Management Specialist	The World Bank
11	Sh. Sudipta Bhattacharya General Manager	IRDAI
12	Sh. Victor Mecwan, Additional Chief Executive Officer& Nodal Officer	Gujarat
13	Dr. A Kowsigan, Commissioner Disaster Management& Nodal Officer	Kerala
14	Dr. Kamal Lochan Mishra, Executive Director& Nodal Officer	Odissa
15	Mr. Roger Robert Grenier, Jr. Team Leader	AIR Corporation Worldwide
16	Mr. Raju Datla Hazard Vulnerability Expert	AIR Corporation Worldwide
17	Mr. Srinivas Kondapalli Disaster Risk Management Specialist	AIR Corporation Worldwide
18	Mr. Someswer Devulaplli Risk Modeling Analyst	AIR Corporation Worldwide
19	Mr. Surinder Verma Senior Director	Verisk
20	Mr. Andrew Hulme Actuarial / Insurance Expert	Guy Carpenter & Company Limited
21	Mr. Apoorv Dabrai Actuarial / Insurance Expert	Guy Carpenter & Company Limited
22	Mr. Karl Jones Financial Management Expert	Guy Carpenter & Company Limited