

**MINUTES OF THE MEETING TO REVIEW PROGRESS ON DEVELOPMENT OF “WEB-DCRA & DSS TOOL FOR CYCLONE & ASSOCIATED IMPACTS” UNDER NCRMP (PH. II) AND STANDARD OPERATING PROCEDURE (SoP) HELD ON 29.05.2020 THROUGH VIDEO CONFERENCE (SKYPE) AT 11 AM IN CHAMBER OF SS&PD, NDMA BHAWAN, NDMA, NEW DELHI**

A meeting to review progress on development of “*Web based Dynamic Composite Risk Atlas (Web-DCRA) and Decision Support System (DSS) Tool for cyclone and associated impacts*” under NCRMP (Ph. II) and Standard Operating Procedure (SoP) was held on 29<sup>th</sup> May, 2020 at 11 AM under the Chairmanship of Dr. Pradeep Kumar, Spl. Secretary & Project Director, NDMA, New Delhi. The meeting was attended by Officials from NDMA, the World Bank and M/s RMSI. List of participants is attached as **Annexure-I**.

2. The meeting started with a welcome note from the Spl. Secretary & Project Director, NDMA. A brief account of progress achieved so far in development of Web-DCRA & DSS Tool was presented through Skype by RMSI Team. The discussion was focussed on present status of deliverables with way forward, Key issues, Standard Operating Procedure (SoP) for making the Tool operational at IMD. The deliberation also included other relevant matters such as, (a) Modalities for updation of Exposure data, (b) Demonstration of Web-DCRA & DSS Tool and DCRA mobile App., (c) Ground trothing and validation of Web-DCRA models, (d) Procurement of hardware for installation/operation of Web-DCRA & DSS Tool at IMD, and (e) Comparative analysis of NRSC Water Logged Area maps generated from Satellite Imagery dated 24<sup>th</sup> May, 2020 for West Bengal and Odisha, and UKAID-HR Wellington Surge Inundation map for West Bengal with reference to the expected outputs of Web-DCRA for cyclone ‘AMPHAN’.

3. Based on the discussions, the action plan/way forward is summarised below:

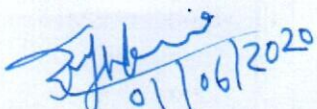
- i. RMSI will submit revised report on 2<sup>nd</sup> Deliverable (Development of probabilistic risk maps) by 15<sup>th</sup> June, 2020.
- ii. RMSI will also submit Conclusion Report of cyclone ‘FANI’ by 05<sup>th</sup> June, 2020.



- iii. Available Dam related dynamic model outputs from Central Water Commission (CWC) for Reservoir Dynamic Model to be integrated in Web-DCRA Tool and confirmed by 15<sup>th</sup> June, 2020, by RMSI.
- iv. Conclusion in terms of accuracy of Web-DCRA outputs for 'FANI' and 'AMPHAN' cyclone to be documented and submitted by RMSI to NDMA by 05<sup>th</sup> June, 2020.
- v. RMSI to submit a comprehensive report for Cyclone 'AMPHAN' comparing outputs of Web-DCRA with NRSC Water Logged Area maps for West Bengal and Odisha, and UKAID-HR Wellington Surge Inundation map for West Bengal, by 12<sup>th</sup> June, 2020.
- vi. A meeting will be organized at IMD, HQ in 3<sup>rd</sup> week of June, 2020 for the following:
  - (a) Demonstration of Beta version of Web-DCRA & DSS Tool and DCRA App. by RMSI.
  - (b) Presentation on Conclusion Report of cyclone 'FANI' by RMSI.
  - (c) Integration of Dam related dynamic model outputs from Central Water Commission (CWC) for Reservoir Dynamic Model with Web-DCRA Tool by RMSI.
- vii. RMSI will coordinate with Space Application Centre (SAC) in coastal States/UTs for updating Exposure information in Web-DCRA Application, and NDMA will facilitate.
- viii. The Exposure data to be updated by the Coastal States/UTs before the Training Workshop in the State/UT. RMSI to facilitate.
- ix. RMSI to submit draft letter (by 05<sup>th</sup> June, 2020) bringing out the present status of Exposure data/information and State/UT wise gap, to be sent to States/UTs by NDMA.
- x. The Web-DCRA outputs to be used by the States, extent of access to NDMA, MHA, IMD and States, and the kind of information to be made available to public at large must be detailed out in the SoP. (Action: RMSI)
- xi. Training Workshops will be started by first week of July, 2020 starting with East Coast States and will be completed in all 13 coastal States/UTs by November, 2020. RMSI will submit by 05<sup>th</sup> June, 2020, the Action Plan with timeline for conduct of State level workshops and National level workshops.



- xii. IMD to submit their comments on SoP for making Web-DCRA & DSS Tool operational at IMD, HQ, by 05<sup>th</sup> June, 2020.
  - xiii. IMD to expedite procurement of hardware for installation/operation of Web-DCRA & DS Tool. Installation of the Tool to be completed by IMD latest by 30<sup>th</sup> June, 2020.
  - xiv. Presently, INCOIS is able to provide ADCIRC surge inundation output files, Viz.; Maxele.63 (Peak Surge Envelope) and Maxvele.64 (Peak current envelope). The availability of remaining requisite ADCIRC surge inundation output files, Viz.; Time series files (Fort.63 and Fort. 64) from INCOIS is subject to enhancement of the existing HPC.  
IMD to comment on how to enhance the existing HPC capacity at INCOIS.
4. The meeting ended with thanks to the Chair and all the participants.

  
(Rajendra Piplonia)  
Project Manager  
NCRMP, NDMA



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