

MINUTES OF MEETING TO REVIEW OVERALL PROGRESS OF NATIONAL SEISMIC RISK MITIGATION PROGRAMME (NSRMP) HELD ON 24.09.2021; 11:00 AM IN AUDITORIUM, NDMA BHAWAN, NDMA.

A meeting to review overall progress of NSRMP was held on 24th September 2021 at 11:00 AM under the Chairmanship of Dy. Project Director, NCRMP (PMU), NDMA. List of participants is attached at **Annexure-I**.

2. A brief presentation was made by the Consultant's Team Leader on component wise progress status of NSRMP.

3. After deliberation involving views/suggestion of participants, the following decisions were made:

(A) Subcomponent A1:

- (i) DPR for Subcomponent A1 (design of EEWDS) should instil further clarity on investment in terms of phasing, network expansion(system design and human resources), collaboration between key institutions (NCS, NGRI, ISR, etc) and sequencing implementation plan on the lines of Multiphase Programmatic Approach.
 - (a) Consultant to approach to NCS with options in terms of techno-feasibility aspect/implementation plan of the project. Thereafter, a meeting will be held with NCS and the World Bank.
 - (b) Consultant to check with Himachal Pradesh and Uttarakhand States on design/implementation of current EEWDS and conclude on the investments required under CNERMP.
 - (c) Design approach / Benefits /Success / Failures / of installed EEWDS systems (Japan, Mexico, Taiwan, USA, Turkey, etc.) is not adequately analysed. It is critical to provide this data to the scientific community and decision makers to enable adoption of the EEWDS system for India.
- (ii) Since maintenance of siren system is a real challenge and involves significant expenditure, current EEWDS system design globally are moving towards adoption of new generation tools for disseminating alerts/warnings. Overall reduction in cost of implementation as well as O&M is one of the ways Consultant should adopt to come with suggestions for techno-feasibility aspect/implementation plan of the project. The EWDS system under NCRMPII has adopted a hybrid approach of developing systems to reach to the last mile. Consultants are requested to study the

development of the cyclone warning dissemination system developed under NCRMPI and II.

- (iii) Options on Technical, Implementation & Operational aspects including requirement of manpower and their training, etc. to be clearly brought out in the DPR by the Consultant. The scaling up of investments will span across a longer time frame and may have to be dovetailed with ongoing efforts of strengthening the national seismological network.
- (iv) Consultant to look into constellation of concerned agencies, viz.; NCS, NGRI and ISR for implementation of EEWDS. This will enable create a partnership of these three premier institutions and bank on their individual strengths and computing capability.

(B) Subcomponent A2:

- (i) Gap Assessment Reports to be finalized in consultation with all States/UTs and concerned State Departments (Civil Defence, Home Guard, SDRF, Fire & Emergency Services, Health Department, SDMA).
- (ii) Undertake budgeting on capacity building of key human resources for operating/handling of equipments and maintenance for first 5 years..
- (iii) Consultant to submit revised report on Search & Rescue Gap Assessment alongwith Investment Plan under Subcomponent A2 for Uttarakhand State, duly complying with the comments/observations dated 08thMarch 2021, 09thMarch 2021 & 17thMarch 2021 on previous version of the report.
- (iv) DPR for Enhancing Emergency Response Capacity under Component A2 to be prepared based on the Gap Assessment Report endorsed by respective States/UTs.
- (v) DPR to be prepared considering budget coming out of States' endorsement, and accordingly, allocation for Component A2 to be reflected in PIP (as priority 1 & priority 2). Priority 1 will be targeted for tendering,
- (vi) State endorsed or assessed Cost table of Gap Assessment Report under Component A2 to be shared by Consultant by 27th September 2021.

(C) Subcomponent A3:

- (i) A manual for training and capacity building (on Component A1 & A2) is to be prepared by the Consultant for emergency/first responders and communities.

(D) Component B:

- (i) Retrofitting of Bridge must be considered based on the State requirements.


- (ii) The retrofitting cost cannot be finalized due to delay in submission of rate analysis by the Consultant. PIP cannot be finalized unless retrofitting rate analysis/retrofitting cost is finalized besides other compliances.
- (iii) Structure/Technology wise retrofitting cost/rate analysis to be submitted by 27th September 2021.
- (iv) Consultant to submit DVA report, including RVS, NDT, Geo-technical investigations with test reports duly ink-signed by State Coordinator, Key Structural Engineer and Team Leader to States for endorsement.
- (v) Base documents for TDU (Regional & State Level) to be submitted to NDMA/World Bank/States.
- (vi) DPR of TDU has to be submitted by Consultant to NDMA incorporating Human Resource, operation plan, O&M plan etc.,
- (vii) Consultant to submit final list of facilities/infrastructure (B1 & B2) to be retrofitted. The list must be approved & Ink-signed by the respective State Nodal Officer. The list should be divided into two parts; part I for which DPRs to be prepared under the project outlay, clearly indicating DPRs to be prepared by the Consultant & DPRs to be prepared by States subsequently, and part II for remaining facilities/infrastructure qualified to be retrofitted (based on results of surveys/screening of prioritized facilities/infrastructure as per the approved list) but falling beyond the current project outlay.

(E) Component C:

- (i) Consultant's experts on different activities under Component C lack clarity on scope of work to be done. It became apparent in the review meeting held on 13th August 2021 on Component C that most of the experts were not well versed with the sub-component wise activities required to be done.
- (ii) Documents so far received (Approach Papers) on different sub-activities under Component C have been submitted by the Consultant without complying with remarks/observations/suggestions provided on the earlier version. The documents lack analysis/methodology aspect). Informations on activities shared with Consultant were not precipitated in the revised documents.
- (iii) Deliverables on activities under Component C to be prepared/submitted incorporating all remarks/suggestions provided Subcomponent wise.
- (iv) Activity wise Gap Assessment Reports/Implementation plan sequenced as MPA to be submitted at the earliest.
- (v) Costing for Component C in PIP is not provided with justification.

(F) GENERAL:

- (i) Consultant to submit PERT Chart by 25th September 2021.
 - (ii) Capacity Building component/aspect will be for all Components, viz.; A1, A2, B3 (TDU) and C.
 - (iii) PIP to define Component/Subcomponent wise budget/allocation and outline list of investment based on gap assessment of all Components.
 - (iv) NDMA and the World Bank to be part of discussions with States on project activities. Consultant to share across the schedule/meeting link well in advance ensuring participation of NDMA and the World Bank.
 - (v) Revised PIP and Draft ESMF documents are under-review, NDMA will share comments shortly.
4. The meeting ended with thanks to the Chair and all the participants.


01.10.2021
(Sanjay K Sharma)
Project Manager
NCRMP, NDMA

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Sl. No.	Name of Officials with Designation	Organisation
1	Sh. Samir Kumar Dy. Project Director, PMU	NDMA
2	Dr. Sanjay K Sharma Env. Specialist, PMU	NDMA
3	Dr. P Prasad Project Coordinator, PMU	NDMA
4	Sh. Anup Karanth Sr. DRM Specialist & TTL	The World Bank
5	Dr. Amit Kumar Team Leader	DDF-AKDN JV
6	Prof. Amit Kumar Bose Director	DDF
7	Mr. Shobhit Chauhan Director	DDF
8	Ms. Anju Bansal General Manager	DDF