

MINUTES OF REVIEW MEETING ON NATIONAL SEISMIC RISK MITIGATION PROGRAMME (NSRMP) HELD ON 19.10.2020 AT 3:30 PM IN OPS ROOM, NDMA BHAWAN, NDMA

A Review meeting on National Seismic Risk Mitigation Programme (NSRMP) was held under the Chairmanship of Dr. Pradeep Kumar, Spl. Secretary & Project Director, NDMA on 19th October, 2020 at 3:30 PM in Ops. Room, NDMA Bhawan, NDMA, New Delhi. The meeting was attended by Officials from NDMA, the World Bank, and Consultant. List of participants is attached at **Annexure-I**.

2. The following points were deliberated:

- (i) Compliance w.r.t. Minutes of Review meetings dated 02nd July 2020 and 14th September 2020 on the Scoping Report.
- (ii) Fortnightly Progress Report.
- (iii) Replacement of State Coordinators.
- (iv) Model DPR and miscellaneous points.

3. It was observed that some of the decisions/observations related to scoping of Component A1, A2, B and C as reflected in the minutes of the review meetings held on 02nd July 2020 and 14th September 2020 are not fully complied.

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

I. Project Scoping Report

- i. Detailed guidelines for preparation/revision of Scoping Report have been issued vide minutes of the meetings held on 02nd July 2020 and 14th September 2020 (enclosed herewith).
- ii. It was reiterated that the Revised Scoping Report must conform to these guidelines; that is, minutes of the review meetings held on 02nd July 2020 and 14th September 2020.
- iii. The Consultant may start submitting the revised Scoping Report component wise, starting with Component A.

II. Fortnightly Progress Report

- i. Consultations with Stakeholders on different Components of the project during the fortnight period and outcome of the consultation meetings to be detailed out in the fortnightly progress report.

III. Replacement of State Coordinators

- i. The Consultant's request for replacement of State Coordinators of Assam, Uttarakhand and Tripura States have been forwarded to the concerned States' Authorities seeking their views on suitability of the proposed person as State Coordinator of the respective States. Consultant's proposed person to coordinate and physically meet with the concerned Authorities in the States in this regard.
- ii. Consultant to re-submit their request for replacement of State Coordinator of Bihar State with proposal of a suitable person.

IV. Model DPR/Miscellaneous

- i. Consultant to submit technology wise Model DPRs for RCC & Masonry buildings/structures, including Bridges (RCC & Steel) for both Hilly & Plain areas within a week. Submission of Model DPRs by the Consultant is over-delayed. The Model DPRs (Structure specific/Typology wise) was to be submitted by the Consultant by 1st week of March, 2020 (refer minutes of meeting dated 02nd January 2020). Further, the Consultant was reminded through PMU's letters dated 08th April 2020, 24th April 2020, 28th April 2020, 30th April 2020, & 04th May 2020, and also reiterated in minutes of the meetings dated 11th June 2020, 10th August 2020 and 12th October 2020. Thus, Consultant must submit all Model DPRs by 26th October 2020 without further delay.
- ii. Consultant to submit compliance of the World Bank's observations for retrofitting solutions based on the Reference Benchmark document, Design brief and analysis provided in Model DPRs in respect of RCC & Masonry buildings within a week.
- iii. Consultant to refer the RVS Primer recently issued by NDMA for conducting RVS of buildings/structures.
- iv. PMU's letters have been issued to facilitate consultations with the concerned Stakeholders on different Components (A, B & C) of NSRMP (*List of PMU's letters issued to Stakeholders/Consultant is enclosed as Annexure II*). Consultant's Team

- Leader alongwith domain Experts will schedule physical meetings with the concerned Stakeholders for requisite inputs/suggestions on Component A, B & C of NSRMP.
- v. All Stakeholder consultations to be completed and the outcome of these Consultation meetings to be shared with PMU, NDMA by 23rd October 2020.
 - vi. Consultant to share outcome of the meeting held with the Fire Advisor on Component A2 of NSRMP.
 - vii. Consultant's Team Leader alongwith domain Experts to schedule physical meetings with Chief Fire Officer (Fire & Emergency Services, Gujarat) for requisite inputs on Component A2 of NSRMP.
 - viii. Consultant's domain Experts/Specialists to schedule a meeting with the World Bank team to discuss PMU/PMC structure.
 - ix. Consultant's MIS/IT Specialist to discuss with the World Bank team on development of MIS.
 - x. Consultant to be on-board for the World Bank's Project Identification Mission on CNERMP to be held during 27th - 30th October 2020.
 - xi. Stock-taking of database related to NSRMP activities with DDF-AKDN JV will be discussed in next review meeting. The NSRMP database will be demonstrated by the Consultant.
 - xii. Demonstration of Dashboard will also be done in the next review meeting.
5. The meeting ended with a note of thanks to the Chair and all the participants.



(Sanjay K Sharma)
Project Coordinator
NCRMP, NDMA

Annexure-I

MINUTES OF REVIEW MEETING ON NATIONAL SEISMIC RISK MITIGATION PROGRAMME (NSRMP) HELD ON 19.10.2020 AT 3:30 PM IN OPS ROOM, NDMA BHAWAN, NDMA

Sl No.	Name of Officials with Designation	Organisation
1	Sh. Samir Kumar Dy. Project Director	NDMA
2	Dr. Sanjay K Sharma Env. Specialist	NDMA
3	Mr. Anup Karanth Sr. DRM Specialist & TTL	The World Bank
4	Prof. Amit Bose Director	DDF
5	Mr. Saurabh Chandra Director	DDF
6	Dr. Amit Kumar Team Leader	DDF-AKDN JV
7	Mr. Madhukar Sanap Social Specialist	DDF-AKDN JV
8	Mr. Asit Nema Environmental Specialist	DDF-AKDN JV
9	Mr. Sudhir Mallik Finance Specialist	DDF-AKDN JV

Annexure-II

PMU's letters issued to Stakeholders/Consultant to facilitate consultations on NSRMP activities

PMU's Letter	Subject	Issued To
14 th October 2020	Design of EEWDS under NSRMP – Inputs required by Consultant	(i) DGM (<u>IMD</u>) (ii) Director (<u>NCS</u>) (iii) Director (<u>NGRI</u>)
09 th September 2020	Enhancing Earthquake Emergency Response Capacity under NSRMP - Inputs required by Consultant	(i) Chief Fire Officer (<u>Fire & Emergency Services, Gujarat</u>) (ii) Fire Advisor (<u>Directorate of Fire, Civil Defence & Home Guard</u>)
03 rd March 2020	Seismic Data for preparation of DPR on EEWDS under NSRMP	Director (<u>NGRI</u>)
21 st February 2020	<u>Authority Letters</u> (06 Nos w.r.t Comp. C2-7) for consultation with Organizations/ Institutes in the field of Seismic Research & Development Programmes <ol style="list-style-type: none"> 1. To get feedback including details of facilities w.r.t. <u>Component C2: Strengthening/Establishing Seismic R&D Programmes across the Country including setting up Centre of Excellence</u> 2. To get feedback including details of Curriculum & Syllabus w.r.t. <u>Component C3: Curriculum Revision for introducing Earthquake Engineering topic in Engineering & Architecture education.</u> 3. To get feedback including details of existing Techno-Legal Regime and Policy documents w.r.t. <u>Component C4: Formulation and implementation of Techno-Legal Regime for structural design reviews, implementation monitoring and licensing of professionals.</u> 4. To get feedback including details of documents/Case Studies w.r.t. <u>Component C5: Documenting, improving and encouraging Traditional Earthquake Resistant Construction.</u> 5. To get feedback including details of documents/IEC materials w.r.t. <u>Component C6: Development of information, education and communication (IEC) material including audio-visual and print materials.</u> 6. To get feedback including details of materials/Training Modules w.r.t. <u>Component C7: Preparing ToRs for formulation of training modules for training and capacity building of engineers, architects, masons, State & Municipal bodies; and suggesting approach/modalities</u> 	DDF-AKDN JV

PMU's Letter	Subject	Issued To
	<i>for implementation.</i>	
08 th November 2019	Information/data needed for design of EEWDS under NSRMP	Sr. general Manager (BSNL)
03 rd September 2019	Information/data needed for design of EEWDS under NSRMP	DG (NIC)
03 rd September 2019	Information/data needed for design of EEWDS under NSRMP	Chairman, DCC & Secretary (DoT)

PROCEEDINGS/MINUTES OF THE MEETING HELD ON 02.07.2020 AT 2:30 PM TO DISCUSS INITIAL PROJECT SCOPING REPORT & RVS/RETROFITTING MATTERS OF NATIONAL SEISMIC RISK MITIGATION PROGRAMME (NSRMP).

A meeting was held on 02nd July, 2020 at 2:30 PM under the Chairmanship of Sh. Samir Kumar, Dy. Project Director, PMU, NDMA to discuss Initial Project Scoping Report of National Seismic Risk Mitigation Programme (NSRMP) and also various aspects of RVS/Retrofitting. The meeting was attended by Officials from NDMA, and the Consultant (M/s DDF-AKDN JV). List of participants is attached at Annexure-I.

2. The meeting started with a welcome note from the Dy. Project Director, PMU, NDMA. A presentation on Initial Project Scoping Report was made by Consultant's Team Leader. A detailed discussion was held on different chapters of the report. It was observed that the Initial Project Scoping Report does not fulfil the requirements of ToR and hence, the report needs further revision. Accordingly, the same is unacceptable in the present form.

3. After deliberation involving views/ suggestions of participants, the following action plan/way forward was agreed to:

1. The initial Project Scoping Report submitted is very sketchy. Hence, unacceptable in the present form. It needs comprehensive revision addressing inter-alia the following points:

(a) Component 'A1' Scoping should include, inter-alia,

(i) State/UT wise details on On-site and Regional EEWDS with comprehensive approach and methodology for designing EEWDS should be provided in the report. State/UT wise location of sensors to be specified, including Location details of On-site sensors. Also description of integration of On-site sensors with regional EEWDS is required to be incorporated.

(ii) Multi-parameter based EEW algorithm for On-site as well as Regional warning approaches, clearly bringing out that both Depth and Magnitude of earthquake are taken into account for designing EEW.

(iii) Basis of issuing warning, whether Magnitude or Intensity or a combination of both to be clearly explained with rationale.

(iv) Estimation of location and magnitude of earthquake to be detailed out.

(v) Strong ground motion at the point of observation and Lead Time accompanying the warning to be described. Scoping to include available lead time at every target city..

- (vi) Mechanism of integration EEWDS under NSRMP with already existing national network is to be described, taking in to account compatibility issues.
 - (vii) Scoping for the Request for Proposals (RFPs) and investments in terms of concept plan, physical work, detailed engineering plan and bidding documents are required to be mentioned.
- (b) Component 'A2' Scoping should include, inter-alia,
- (i) State/UT specific existing Emergency Response Capacity to be detailed out in terms of existing status of data/information, gap analysis and final recommendations.
 - (ii) State/UT specific existing inventory of Search & Rescue equipment to be specified.
 - (iii) Upgradation requirements (human resources, equipment, training needs) of SDRF, and the State/City level Fire & Emergency Services to meet search and rescue standards to be detailed out with its benefits/impacts on disaster management.
 - (iv) Brief description on training and capacity building programme for emergency/first responders.
 - (v) Brief description on augmentation of disaster risk management capacities of the communities.
 - (vi) Brief description on scoping for the Request for Proposals (RFPs) and investments in terms of concept plan, physical work, detailed engineering plan and bidding documents.
- (c) Component 'B' Scoping should include, inter-alia,
- (i) State/UT wise details on identification of critical buildings/infrastructure to be retrofitted. Priority list of critical infrastructure of each State must be verified & signed by the concerned Nodal Officer of the State, and Consultant's Team Leader and Concerned State Co-ordinator. Critical infrastructure as mentioned above have to be included in the Initial Scoping Report.
 - (ii) The performance level of the retrofitted structures to be ensured based on the utilization/importance factor of the structures and needs of the concerned State Governments.
 - (iii) Retrofitting to be adhered to the National Building Codes/BIS/NDMA Guidelines and consistent with the international best practices.
 - (iv) State/UT wise proposal for small Technical Demonstration Units.


- (v) Identification of Technology Demonstration Unit and finalization of size and location and other relevant requirements of TDUs in consultation with State authorities. Development of design (new/retrofit) and construction drawings, preparation of DPR and Bid Documents for the investment to be described.
- (vi) Brief description on scoping for retrofitting of critical buildings/infrastructure in terms of Structural Design Based Report (SDBR) based on detailed survey, conditional assessment, and Non-destructive testing along with detailed analysis.
- (vii) Scoping report must include details of the Technology (Base Isolation, dampeners, Splint & Bandages, Jacketting, etc.) to be used for retrofitting for different types of critical infrastructure (Masonry structures, RCC structures, RCC bridge, Steel bridge, etc.) in its methodology with cost analysis (i.e., cost of different retrofitting technology per square meter).
- (viii) Brief description on scoping for developing TDU design (new/retrofit) and construction drawings, DPR and Bid Documents for the investment.
- (d) Component 'C' Scoping should include, inter-alia,
- (i) Studying the existing materials/draft NCPE Bill from the perspective of seismic risk mitigation/ disaster risk reduction and providing inputs/suggestions for incorporation in the draft Bill.
 - (ii) Strengthening/Establishing Seismic research and development program across country including setting up a centre of excellence.
 - State/UT wise assessment of present status, gap analysis, documenting key findings of assessment, way forward and outputs, viz.; Detailed Project Report and Action Plan with recommendations highlighting benefits for implementation.
 - Design aspects of "Centre of Excellence".
 - Contours of DPR for setting up Centre of Excellence.
 - (iii) Curriculum revision for introduction of Earthquake Engineering topics in Engineering, and Architecture education.
 - State/UT wise assessment of present status, gap analysis, documenting key findings of assessment, way forward and outputs, viz.; Detailed Project Report and Action Plan with recommendations highlighting benefits for implementation.
 - (iv) Formulation and implementation of Techno-legal Regime for structural design reviews, implementation monitoring and licensing of professionals.

- State/UT wise assessment of present status, gap analysis, documenting key findings of assessment, way forward and outputs, viz.; Detailed Project Report and Action Plan with recommendations highlighting benefits for implementation.
- (v) Documenting, improving and encouraging Traditional Earthquake Resistant Construction.
- State/UT wise assessment of present status, gap analysis, documenting key findings of assessment, way forward and outputs, viz.; Detailed Project Report and Action Plan with recommendations highlighting benefits for implementation.
- (vi) Development of large scale standardized information, education and communication (IEC) material including audio-visual and print materials.
- State/UT wise assessment of existing IEC materials, gap analysis documenting key findings of assessment, way forward and outputs, viz.; Detailed Project Report and Action Plan with recommendations highlighting benefits for implementation.
 - Preparation of new material wherever not available for sensitization programmes of communities.
- (vii) Preparing ToRs for Consulting Services for formulation of training modules.
- State/UT wise assessment of existing modules, if any, for training and capacity building of engineers, architects, masons, State & Municipal bodies.
 - Suggesting approach/modalities for implementation.
- (viii) Consultant to describe the impact/benefit of their recommendation/action plan on each sub-components of Component C.
- (ix) Consultant to make assessment and carry out review of the National and State level Seismic Policy formulation and National Seismic Hazard mapping.
- (e) Component 'D' Scoping:
- (i) Detailed description and methodology for followings to be brought out in the Scoping Report:
- Programme Implementation and Monitoring & Evaluation.
 - Staff Capacity Building and Training including preparation of training materials and manuals.
 - Project manuals, Documentation and quality monitoring.

- Project Management support including Environmental & Social monitoring to the participating States and PMU.
- Procurement management, Financial management, Environmental & Social Management, and development of Management Information System.

RVS/Retrofitting Matter

- II. (i) Model RVS report to be shared.
- (ii) Consultant will disclose about the other companies/firms engaged for different activities pertaining to NSRMP.
- (iii) Actual videos/photographs with proper caption and brief on activities carried out at sites to be shared in real-time.
- (iv) The RVS should be carried out in the physical presence of Structural Engineering Specialist, State Coordinator and Associate State Coordinator. Comprehensive report on RVS signed by the State Nodal Officer, and State Coordinator & Structural Engineer of the State/UT will be shared on weekly basis with NDMA and the State/UT. The report should also mention details on RVS team, activities performed and structure/building wise analysis details with outcomes.
- (v) State-wise final list of prioritized critical facilities to be retrofitted, duly signed by the Consultant's Team Leader and State Coordinator, and State Nodal Officer, to be submitted to NDMA at the earliest.
- (vi) State specific concept note on TDU detailing on size and other relevant requirements will be shared with States/UTs. Site for TDU will be finalized by the Consultant in coordination with the States/UTs.
4. The meeting ended with thanks to the Chair and all the participants.


(Rajendra Piplonia)
Project Manager
NCRMP, NDMA

Annexure-I

PROCEEDINGS/MINUTES OF THE MEETING HELD ON 02.07.2020 AT 2:30 PM TO DISCUSS INITIAL PROJECT SCOPING REPORT & RVS/RETROFITTING MATTERS OF NATIONAL SEISMIC RISK MITIGATION PROGRAMME (NSRMP).

Sl. No.	Name of Officials with Designation	Organisation
1	Sh. Rajendra Piplonia Project Manager, PMU	NDMA
2	Dr. Sanjay K Sharma Env. Specialist, PMU	NDMA
2	Dr. Mudit Kapoor Project Coordinator, PMU	NDMA
3	Mr. Vijay K. Sharma Manager (IT), PMU	NDMA
4	Mr. Shaurabh Chandra Director	DDF
5	Dr. Amit Kumar, Team Leader	DDF-AKDN JV

MINUTES OF REVIEW MEETING ON NATIONAL SEISMIC RISK MITIGATION PROGRAMME (NSRMP) HELD ON 14.09.2020 AT 2:30 PM IN OPS. ROOM, NDMA BHAWAN, NDMA

The Review meeting on National Seismic Risk Mitigation Programme (NSRMP) was held under the Chairmanship of Dr. Pradeep Kumar, Spl. Secretary & Project Director, NDMA on 14th September, 2020 at 2:30 PM in Ops. Room, NDMA Bhawan, NDMA, New Delhi. The meeting was attended by Officials from NDMA, the World Bank, and Consultant. List of participants is attached at **Annexure-I**.

2. The following documents/points were deliberated:

- (i) PMU & PMC structure; ToRs for hiring PMC and the Core personnel of PMU/SPIU.
- (ii) Revised Initial Project Scoping Report.
- (iii) Technology Demonstration Unit (TDU).
- (iv) Project Investment Plan (PIP).

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

1. PMU & PMC structure

- i. The PMU at central level and SPIU at State level will have only the Core Staff with PMCs reporting to it. Select Project Management functions will be outsourced through PMCs.
- ii. The PMC's mandate/responsibilities will encompass the entire gamut of Project activities which would inter-alia include inviting EoI/RFP/Bids; Bid evaluation, contract/construction supervision, progress monitoring and reporting, Knowledge Partner for technologically complex sub-projects, TPQA activities (quality assurance and audit consultants – separately for technical functions and Environmental & Social checks), O&M for relevant sub-projects, cost-benefit analysis/Life Cycle Cost Analysis/Benefit Monitoring and Evaluation of the Project (Mid-term, End-term), etc.
- iii. There could be multiple PMCs responsible for different set of Project activities.

- iv. ToR for hiring the PMC and ToRs for each Specialist/Expert within the PMC to be submitted by the Consultant. ToRs for hiring Core personnel in PMU/SPIU should also be submitted on priority.
- v. In the light of COVID, Consultants to outline remote project monitoring operations as part of Project Management and Project Monitoring.
- vi. There should be ample clarity in terms of the following:
 - (a) Governance and institutional structure, implementation arrangements.
 - (b) Composition of PMU/SPIU and PMCs at both State and Central level.
 - (c) Roles & responsibilities of PMU/SPIU and respective PMC.
 - (d) Component-wise activities to be done by the PMU (NDMA), SPIU and PMC.

II. Initial Project Scoping Report

General:

- i. Chapter 1-Project Context of the report appears superfluous.
- ii. Deliverables/activities for each Component/sub-component [A1, A2, B1, B2, B3, C1-C7, & D] should be specified clearly bringing out scoping/detailing of Components/sub-components in terms of Packaging/ State-wise number of packages (Works, Goods, Services – Consultancy/Non-Consultancy), package wise DPR/Design/BoQ/Bid document/ToR/RVS/O&M/AMC/Knowledge Partner/TPQA activities, etc.
- iii. Implementing Agency for each of the above activities should be specified.
- iv. In other words, Package wise procurement plan to be detailed out.
- v. The report should be prepared complying with the recommendations of various review meetings held on different Components of NSRMP.
- vi. All external concerned agencies to be consulted at the stage of Project Scoping. Consultation to be done with relevant Stakeholders. On-boarding confirmation to be shared with PMU-NCRMP II.
- vii. Consultant to schedule a discussion with the Secretary, MoES, as well as with DGM, IMD; Director, NCS; Director, NGRI, etc. w.r.t. Centre for Excellence and EEWDS. In addition, Consultant to schedule discussion with Ministry/Departments of Gol and all key stakeholders for activities envisaged under Component C.
- viii. Project Scoping Report forms a key deliverable to inform the PIP and subsequent deliverables of the consultancy assignment.

- ix. Detailed output-outcome framework/Result Framework will provide inputs for preparation for PIP.

Scoping of Component A1:

- i. Number of Packages and Procurement Plan thereof to be brought out clearly.
- ii. Scoping at National level and State level to be done for both On-site and Regional EEWDS.
- iii. Approach/Algorithm for both On-site and Regional EEW system needs to be elaborated/explained confirming/clarifying PMU's observations dt. 08th May 2020, clearly bringing out Depth/Magnitude/Intensity aspects as well as multi-parametric approach for designing of EEW System.
- iv. International experience/best practices for EEWDS (both On-site and Regional) to be captured in details.
- v. Implementing Agencies for EEWDS (On-site and Regional) to be identified and approached.
- vi. Specific locations for On-site EEW System to be finalized in consultation with States/Agencies.
- vii. Mechanism for integration of On-site Sensors with Regional EEWDS to be detailed out.
- viii. Mechanism for integration of EEWDS under NSRMP with already existing National Network to be described, taking into account the compatibility factor.
- ix. Specification of On-site EEWS to be finalized.
- x. State-wise details of On-site EEWS to be provided.
- xi. O&M, AMC, etc. to be clearly outlined for the system.

Scoping of Component A2:

- i. Number of Packages and Procurement Plan thereof to be brought out clearly.
- ii. The report mentions details on NDRF. Consultant to clarify relevance of NDRF w.r.t. enhancing Emergency Response Capacity at State Level.
- iii. Gap analysis to be carried out for State/UT specific existing Emergency Response in terms of existing status of data/ information, and final recommendations are to be made.

- iv. The report should detail out upgradation requirements (human resources, equipment, and training needs) of SDRF, and the State/City level Fire & Emergency Services to meet search and rescue standards, with its benefits/impacts on disaster management.
- v. Training and capacity building programme for emergency/first responders needs to be described.
- vi. International experience/best practices for emergency management to be captured in detail. Community Volunteer programme (CERT, MAG) in highly seismic active regions and their role in emergency management to be outlined. Consultants to detail on similar strengthening approach in Indian context.

Scoping of Component B:

- i. The report should contain scoping/detailing of this Component clearly bring out:
 - (a) Physical outlay in terms of number of critical buildings/infrastructure to be retrofitted under Sub-Component- B1 & B2 (Total 1750 no. with State wise break-up detailed in Minutes of the meeting dated 02nd January 2020),
 - (b) Number of TDUs to be developed/constructed under Sub-component- B3,
 - (c) State-wise number of packages (Work, Good, Services – Consultancy/Non-Consultancy), etc.
- ii. Separate Design/DPR to be prepared for TDU in Greenfield (one each for Plain State and Hill State), and TDU in Brown field/ attached to existing institutions in each of the 9 States/UTs. Thus, there will be 2 packages/DPRs for TDU in Greenfield area and 9 packages/DPRs in Brown field/ attached to the existing institutions.
- iii. Design/physical layout for Regional/State level TDUs should be firmed up in consultation with the States.

Scoping of Component C:

- i. Implementing Agency for each activity (C1-C7) to be clearly brought out.
- ii. Approach Papers on sub-activities (C1-C7) to be revised, incorporation PMU's comments/observations shared with the Consultant vide letter no. 551-557 dated 31st July 2020.
- iii. Scoping/detailing out of sub-activities (C1-C7) to be done taking relevant inputs from the activity wise revised Approach Papers.
- iv. Capacity building modules to be detailed out.

Scoping of Component D (Project Management & Monitoring):

- i. Scoping of Component should clearly brought out details of various documents being done/under preparation.
- ii. Structuring of PMU/SPIU to be included under Scoping of Component D, and there should be ample clarity in terms of
 - (a) Number of PMCs required at National level as well as at State level.
 - (b) Composition of PMU/SPIU and PMC at both State and Central level.
 - (c) Roles & responsibilities of PMU/SPIU and PMC.
- iii. Fund flow modalities/arrangement, etc. also to be finalized through consultation at the stage of project scoping.

III. Project Investment Plan (PIP)

- i. Chapter 1 (Project Investment Plan) & Chapter 2 (Assessment & Estimation of Project Resources) of report in the present form appears irrelevant. The Consultant to have a re-check closely. The PIP should rather focus on detailing out package wise procurement plan/Investment Plan.
 - ii. Investment/costing/outlay should correspond to the scoping/physical outlay/output-outcome framework/Result Framework done in Scoping report.
 - iii. Actual financial resources requirement and project implementation period should be realistic.
 - iv. Cost estimates should be based on relevant SoRs and will be known only after DPRs are available for Component A, B & C.
 - v. Costing of PMU/SPIU/PMC should be linked with manpower/manmonths, alongwith estimates on Office equipments.
 - vi. Costing to be done taking into account the prioritized number of structures to be retrofitted/constructed.
 - vii. Allocation to States will correspond to the number of structures detailed out in Scoping report.
 - viii. Basis of costing for different sub-activities under Component C to be clarified.
 - ix. Finalization/Approval of Initial Scoping Report is pre-requisite for preparation of Project Investment Plan
4. DDF to work out revised documents (Scoping Report/PIP/Approach Papers, etc.) factoring/incorporating above suggestions/guidelines.

5. Packaging of Retrofitting works should be done quickly in consultation with the States. Simultaneously, package wise DPR preparation should also begin.
6. The meeting ended with a note of thanks to the Chair and all the participants.


17-09-2020
(Rajendra Piplonia)
Project Manager
NCRMP, NDMA

Annexure-I

MINUTES OF REVIEW MEETING ON NATIONAL SEISMIC RISK MITIGATION PROGRAMME (NSRMP) HELD ON 14.09.2020 AT 2:30 PM IN OPS. ROOM, NDMA BHAWAN, NDMA.

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