

MINUTES OF REVIEW MEETING ON MODEL DETAILED PROJECT REPORT (DPR) UNDER COMPONENT-B OF NATIONAL SEISMIC RISK MITIGATION PROGRAMME (NSRMP) HELD VIA VIDEO CONFERENCING ON 11.06.2020 AT 11 AM.

A meeting was held through video conferencing on 11th June, 2020 at 11 AM under the Chairmanship of Dr. Pradeep Kumar, Spl. Secretary & Project Director, NDMA to review Model Detailed Project Report (DPR) under Component B of NSRMP. The meeting was attended by Officials from NDMA, the World Bank, and Consultant (M/s DDF-AKDN JV). List of participants is attached as **Annexure-I.**

2. The meeting started with a welcome note from the Spl. Secretary & Project Director, NDMA. The Task Team Leader & Sr. DRM Specialist, the World Bank initiated the discussion specifying the purpose and objectives of the meeting. Prof. Amit Bose, Director, DDF briefed about the NSRMP project. A presentation was made by the Consultant's team on Model DPR. The presentation was focused on common Design Methodology for Retrofitting of Buildings and Guidelines for Estimation and BOQ Preparation, and model DPRs for masonry and RCC structures. Lots of content of the Model DPRs were found very generic and hence, the report needs further revision.

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

- i. The code compliance status of the building should be mentioned in the DPRs after verification from PWD.
- ii. The consultant will share the ETABs files of District Hospital, Rudraprayag Buildings of both Masonry and RCC typologies with NDMA and World Bank.
- iii. Model DPR should detail out the beneficiaries such as population to be benefitted from retrofitting of the structure. This will be preamble and a part of DPR.
- iv. The consultant should clearly define the present earthquake strengthening measures as existing in structures in respective DPRs.
- v. The Operational Challenges due to disruptions/relocation during execution of retrofitting works and estimated cost involved should be incorporated in respective DPRs.

- vi. The chapters on Environment and Social impacts and mitigation measures are very generic. Recommendations are to be given specific to building/site which are applicable to facility usages. It was decided to get more clarity/guidance from WB specialists in meeting scheduled on June 12, 2020.
- vii. A work method statement linked with the retrofitting planning and execution should be included in the DPR.
- viii. The Consultant will compare cost, advantages, and disadvantages of various retrofitting techniques for one single model / sample building and submit the same to NDMA and the World Bank.
- ix. Base/reference documents should be developed which can outline the guidelines based on NDMA guidelines, global practices, and BIS codes.
- x. Access to the sites, and choosing the technology options for retrofitting of specific structures which may go beyond 50% cost should be included in volume 1 “Benchmark Document/Guidelines”.
- xi. The cutoff percentage for retrofitting cost to the re-construction cost should be incorporated in the Model DPR.
- xii. Methodology of feasibility assessment should be detail out in DPR.
- xiii. Negotiable and non negotiable services should be mentioned in the DPR for specific structures such as Hospitals, Education buildings, etc.
- xiv. The following points to be described in the DPR in the form of annexes:
 - (a) Need for retrofitting and assessment (initial part of DPR).
 - (b) The expected benefits to the beneficiaries (outline in the DPR), analysis options including upgrades and modification requirements.
- xv. Non-structural elements (shifting of books from racks in case of library) should be clearly described in the DPRs.
- xvi. The following generic content needs to be further revised:
 - (a) Entire Chapter 8 “Potential Environmental and Social Impacts” is very generic.
 - (b) In Air and Environment section, no baseline has been mentioned for noise.
 - (c) Restoration of activities/services of a building needs to be stronger and clearer.
 - (d) The linkage of environmental and safety issues are missing.
- xvii. Documentation of Stakeholder consultations will be part of DPR.

- xviii. Issues such as accessibility and site clearance, and surrounding features should be clearly mentioned in the DPR.
 - xix. Methodology adopted to estimate cost of ESMF budget to be shared with NDMA and The World Bank. The same should be detailed out in DPR.
 - xx. In case of demolition of existing buildings and construction base, handling of the specific type of wastes should be clearly mentioned in the DPR.
 - xxi. Relocation and shifting elements need to be mentioned in DPR.
 - xxii. Functional disturbances need to be mentioned in the DPR. Alternatives should be explained.
 - xxiii. Elements such as benefits, time saving, pollution management, and facilitating the execution of works should be included in the DPR.
 - xxiv. Costing related to the DPR specifically in case of health should also include cost towards the temporary shifting.
 - xxv. In case of shifting to nearby facility, memorandum of understating (MoU) needs to be included in DPR for better functioning of works.
 - xxvi. Consultant will get all DPRs (as per deliverables) validated from the concerned State agencies, as correct as per the ground condition, before final submission to PMU.
 - xxvii. Consultant will submit model DPRs of RCC building as well as Bridge.
4. The meeting ended with thanks to the Chair and all the participants.



(Rajendra Piplonia)
Project Manager
NCRMP, NDMA

Annexure-I**MINUTES OF REVIEW MEETING ON MODEL DETAILED PROJECT REPORT (DPR) UNDER COMPONENT-B OF NATIONAL SEISMIC RISK MITIGATION PROGRAMME (NSRMP) HELD VIA VIDEO CONFERENCING ON 11.06.2020 AT 11 AM.**

Sl. No.	Name of Official with Designation	Organization
1	Mr. Samir Kumar Dy. Project Director	NDMA
2	Mr. Rajendra Piplonia Project Manager	NDMA
3	Dr. Sanjay K Sharma Environment Specialist	NDMA
4	Dr. Mudit Kapoor Project Coordinator	NDMA
5	Mr. Vijay K Sharma Manager (IT)	NDMA
6	Mr. Mahendra Meena Sr. Consultant (Earthquake & Tsunami)	NDMA
7	Mr. Anup Karath Sr. DRM Specialist & TTL	The World Bank
8	Ms. Neha Vyas Sr. Environmental Specialist	The World Bank
9	Prof. Amit Bose Director	DDF
10	Dr. P R Bose National Coordinator	DDF
11	Dr. Amit Kumar Team Leader	DDF
12	Dr. T. K. Dutta Structural Specialist	DDF
13	Dr. D.K. Paul Structural Specialist	DDF
14	Dr. SK Thakkar Structural Specialist	DDF
15	Dr. Sadanand Ojha Structural Specialist	DDF
16	Dr. Abhay Gupta Structural Specialist	DDF
17	Mr. Mehmet Emin Akdogan Structural Specialist	DDF
18	Dr. Maqsood Nazar Structural Specialist	DDF
19	Mr. Sunil Aggarwal Structural Specialist	DDF
20	Mr. Nitin Behl Procurement Specialist	DDF

21	Mr. Asit Nema Environmental Specialist	DDF
22	Mr. Madhukar Sanap Social Specialist	DDF
23	Mr. Nitesh Kumar Environmental Specialist	DDF
24	Mr. Shobhit Chauhan Director	DDF
25	Mr. Saurabh Chandra Director	DDF
26	Ms. Niqat Patel Associate Social Specialist	DDF
27	Mr. Santosh Kumar Associate Social Specialist	DDF
28	Ms. Dipti Gumbar Bhatnagar Associate Environment Specialist	DDF
29	Ms. Anju Bansal General Manager	DDF
30	Col Sanjay Srivastava General Manager (Disaster Management)	DDF
31	Mr. M.P. Jha	DDF