

No. 31-55/2004-NDM.II/III(B)
Government of India
Ministry of Home Affairs
(National Disaster Management Division)

North Block, New Delhi.

December 1, 2004

OFFICE MEMORANDUM

Sub: Constitution of an **Expert Committee** for formulation of **National Programme for Seismic Microzonation, Seismic Hazard Risk Assessment and Mitigation Action Planning**

The undersigned is directed to refer to this Ministry's O.M. of even number dated 30th November, 2004 regarding putting in place a coordination mechanism for Seismic Microzonation, Seismic Hazard Risk Assessment and Seismic Risk Mitigation Planning at all levels in the country.

2. Seismic Microzonation is essential for developing Master Plan and detailed land use planning incorporating the hazard and vulnerability profile of the area. In order to mitigate the hazard risks in both urban and semi-urban clusters where existing land use and the built in environment are vulnerable, seismic microzonation, seismic risk assessment and mitigation action planning has become a priority for the Government. There are ongoing national and local efforts to undertake such studies in different parts of the country. Such studies must come up with appropriate decision support system so that mitigation action plans can be developed. There is also a need to put in place a mechanism to guide and coordinate such exercises.

3. Bureau of Indian Standards (BIS) and India Meteorological Department (IMD) are currently working on establishing ***national norms, guidelines and standards*** detailing clearly the methodologies to be adopted for seismic microzonation and risk assessment.

4. Seismic microzonation, risk assessment and mitigation planning is a multi-agency activity and it necessitates involvement of a large number of National and State agencies with their inputs for *estimation of bedrock motion, estimation of surface ground motion, built environment impact analysis and developing decision support system*. The State and local administrations are also required to develop **Earthquake Risk Mitigation Master Plan** based on inputs made available from these exercises.

5. In order to have seismic microzonation and the mitigation action plans developed for all the priority areas in the country, it has been decided to formulate a **National Programme for Seismic Microzonation, Seismic Risk Assessment and Mitigation Act Planning (NPSMRAMAP)**. The outline of the Programme will contain the following:-

- (i) Goals and objectives
- (ii) Criteria for selection of the States/Cities (Probable seismic intensity, population, importance factors, etc.)
- (iii) Geographical coverage
- (iv) Programme outcomes

- (v) Implementation strategies and arrangements at National, State and local levels
- (vi) Resource Agencies to be involved
- (vii) Resource mobilization strategy
- (viii) Annual action plan and
- (ix) Inter-agency coordination mechanism at all levels.

6. It has been decided to constitute an Expert Committee with one representative from each of the following Ministries/Departments/Agencies for the formulation of the above Programme:-

- (a) Deptt. of Science of Technology (Ministry of Science & Technology)
- (b) Department of Mines
- (c) India Meteorological Department (IMD)
- (d) Indian Institute of Technology, Roorkee
- (e) Indian Institute of Technology, Mumbai
- (f) Gujarat State Disaster Management Authority (GSDMA)
- (g) Ministry of Home Affairs

7. The Expert Committee may co-opt other national experts to participate in this exercise. It has also been decided that the Committee will submit its Report within a month from the date of its constitution to the Ministry of Home Affairs for further action.

Cw
S 30/12/04

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2. Secretary, Deptt. of Science & Technology, New Delhi.
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3. DG, India Meteorological Department, New Delhi.
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4. Director, Indian Institute of Technology, Roorkee
(Fax No. 01332-276899 / 01332-273560)
5. Director, Indian Institute of Technology, Mumbai
(Fax No. 022-25767302)
6. CEO, GSDMA, Gandhi Nagar, Gujarat.
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They are requested to nominate a representative each to be member of the Expert Committee.