

New Delhi, the 11<sup>th</sup> February, 2004

ORDER

Subject : Constitution of a National Committee on Seismic Design Parameters(NCSDP) for River Valley Projects.

In Partial modification of this Ministry's Order No.29/1/98-P.1, dated the 9<sup>th</sup> December, 1998, the undersigned is directed to appoint Dr. I.D. Gupta, Joint Director, CWPRS, Pune as official member of the National Committee on Seismic Design Parameters for River Valley Projects.

With this change the revised constitution of the Committee shall be as under :-

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|----|--|---------------------|
| 1. | Member(D&R),<br>Central Water Commission,<br>New Delhi.  | Chairman            |
| 2. | Dr. A.S. Arya,<br>Ex-Pro Vice Chancellor,<br>University of Roorkee<br>(Through CE (DSO),CWC).      | Non-Official Member |
| 3. | Director,<br>Seismology,<br>Indian Meteorological Deptt.   | Member              |
| 4. | Director, GSI<br>Engg. Geology Division  | Member              |
| 5. | Head, Department of Earth-Quake Engg.<br>University of Roorkee.                                    | Member              |
| 6. | Deputy Director,<br>National Geophysical Research<br>Institute, Hyderabad.                         | Member              |
| 7. | Director, Landslides and<br>Seismotectonic Division,<br>Northern Region, GSI,<br>Aliganj, Lucknow. | Member              |
| 8. | Head, Geosciences Division,<br>Indian Institute of Remote<br>Sensing, Dehradun.                    | Member              |
| 9. | Additional Surveyor General,<br>Geodetic & Research Branch,<br>Survey of India, Calcutta.          | Member              |

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|-----|---|--------------------|
| 10. | Commissioner(Projects)/<br>Joint Commission(PR),<br>Ministry of Water Resources, New Delhi. | Member             |
| 11. | Chief Engineer(DSO),<br>Central Water Commission,<br>New Delhi.                             | Member             |
| 12. | Dr. I.D. Gupta, Joint Director,<br>CWPRS, Pune.   | Member             |
| 13. | Director(FE&SA)<br>Central Water Commission,<br>New Delhi.                                  | Member - Secretary |

The terms of reference of the Committee will be as under :-

1. Recommending design co-efficient/dynamic analysis for proposals received from dam owners.
2. Seismic risk mapping.
3. Identify seismogenic sources and associated seismic potential.
4. To recommend attenuation relationships and derive Maximum Credible Earthquake(MCE).
5. Finalize recommendation on Controlling Maximum Credible Earthquake(CMCE).
6. Finalise recommendation on Design Base Earthquake (DBE).
7. Identify potential for fault rupture in the dam foundation or in the reservoir area.
8. To consider probability of Reservoir Induced Seismicity (RIS) and make appropriate recommendation for design parameters.
9. To decide seismic network and specification for seismic instruments.
10. To consider analysis of seismic data from such networks.



( P. PADMANABHAN  
SR. JOINT COMMISSIONER(PE

To

The Chairman and Members of the Committee.

Copy for information to : Member-Secretary(NCSDP) and Director(FE&SA), Central Water Commission, Secy  
Bhawan, R.K. Puram, New Delhi.

## **NATIONAL COMMITTEE ON SEISMIC DESIGN PARAMETERS (NCSDP)**

The National Committee on Seismic Design Parameters (NCSDP) was constituted through MoWR order dated 21<sup>st</sup> October, 1991 with the objective to recommend the Seismic Design Parameters for the proposals received from the Dam owners. The Member (D&R), CWC is the Chairman of the Committee with 11 other experts from various engineering disciplines from different technical institutions and Government Organizations as its Members. Director, FE&SA Directorate, CWC is the Member Secretary of the NCSDP. The constitution of the NCSDP is given separately. Till now, 33 Meetings have been conducted by the committee and Minutes of the Meetings of all the Meetings are attached separately.