

Annexure G

PROFORMA FOR SUBMISSION OF STUDY REPORT TO NCSDP

The study report should be compiled in a single dossier as per *proforma* given below. The *proforma*, duly filled and signed, should be furnished as a check-list in the beginning of the study report.

| Sl No. | Description | Compliance (Yes/No) w.r.t. Guidelines & Reasons for Non-compliance |
|----------|---|--|
| 1 | Project Details | |
| (a) | Name of the Project | |
| (b) | Name of the River over which the project is proposed | |
| (c) | Brief Description of the Project Components | |
| (d) | Location of the Project: <i>State, District, Longitude & Latitude, layout of Project components (e.g. Dam/Barrage/Power House etc.) for which design ground motion is required.</i> | |
| (e) | Type of Project: <i>Multipurpose or irrigation Storage (area/ volume of reservoir) or Run of the River Scheme or Hydro Power Project (surface/ subsurface, Installed Capacity, number of units etc.)</i> | |
| (f) | Details of other projects in the vicinity (within 100 km): <i>(Refer Annexure-H) Name of project, Type of hydraulic structures, and seismic parameters (expected PGA for MCE) for projects constructed/ under construction.</i> | |
| (g) | Present Status of Investigation: <i>DPR submitted/ approved; Salient comments/ observations on DPR for ground exploration, relevant to Seismic design; status on environment clearance; preconstruction/ construction stage etc.</i> | |
| (h) | Name and address of the Project Authority and Consultants/ Advisors: <i>Complete postal address with telephone/fax/e-mail of Project Authority and Consultants/ Advisor engaged by the Project Authority for various types of inputs [geological, geophysical, geotechnical, seismo-tectonics, seismic design etc.] shall be given.</i> | |
| 2 | Regional Seismo-Tectonic and Geological Evaluation <i>(Refer Sections 4.0 of the guidelines for details)</i> | |
| (a) | Tectonic Map of at least 6° Latitude × 6° Longitude: | |
| (b) | Interpretation of regional tectonic mechanism and other details: | |
| (c) | Earthquake catalogue: | |

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|----------|---|--|
| (d) | Seismo-tectonic Map and a Seismo-tectonic Section: | |
| (f) | Micro earthquake investigations: | |
| 3 | Local Geologic and Geotechnical Setting (<i>Refer Section 5.0 of the guidelines for details</i>) | |
| (a) | Local Geological map: | |
| (b) | Geological Sections along and across the dam axis: | |
| (c) | Site investigations for V_{s30} and the value used: | |
| 4 | Evaluation of site-specific seismic parameters | |
| (a) | Methodology of the study: <i>The adopted study methodology, conforming to Sections 10 to 12 of the guidelines, should be briefly described. Any deviation from the recommended approach should be pointed out with adequate justifications.</i> | |
| (b) | Evaluated site specific seismic parameters: <i>The study should furnish the recommended response spectra for the MCE and DBE conditions; the identified MCE (deterministic estimate); duration of shaking; and uncorrelated acceleration time histories for both horizontal and vertical motions.</i> | |
| 5 | Recommendations on design approach (<i>Refer Section 14 of the guidelines for details</i>) | |
| 6 | Preparation and Submission of study report for NCSDP approval (<i>Refer Section 15 and Annexure F of the guidelines for details</i>) | |

Date:

Signature & Seal
of authorized representative
of Project Authority