

Preliminary Report(PR)

Chapter wise Guideline Provisions and Directive

Requirements as per guidelines

3 PRELIMINARY REPORT / PRE-FEASIBILITY REPORT/CONCEPT NOTE 3.1

On the basis of collection of requisite information as well as Surveys and Investigations, the pre-feasibility report shall be prepared to contain brief and to the point chapters on General data, General Planning, Inter-State and International aspects, Surveys & Investigations including Geological investigation, Seismic investigation, Foundation investigation, Construction material survey, Hydrological and meteorological investigations etc. Hydrology, Drinking water requirements, Irrigation planning, plans for other intended benefits, Environmental and Ecological aspects, etc. required for initial assessment of soundness of the basic planning of the project proposal as per the check-list (Annexure-3).

Check List for Pre-Feasibility Report/Preliminary Report/Concept Note Does the Preliminary Report contain the chapters on:

- **General Data:** This chapter would include the location, category and other physical features of the project.
- **General Planning:** This chapter would include the discussion on the master plan for overall development of river basin and stages of basin development, alternative proposals of the project with their merits and demerits, priority of the project in the overall development of the basin, the effect of the scheme on the riparian rights existing upstream and downstream of the project, etc.
- **Inter-state and International Aspects:** This chapter would include the Inter-state and International issues identified and present status of agreement indicated especially in respect of sharing of water, sharing of costs, sharing of benefits, acceptance of the submergence by the upstream state(s), compensation of land coming under submergence, settlement of oustees and any other issue if so. If there is no agreement between the states exists, the present position against the aforementioned items may be stated.
- **Survey & Investigations:** This chapter would include detailed topographical surveys in respect of river, reservoir, head works (dams, dykes, barrages, weirs and other auxiliary component), plant site and colonies, canals, branch ~ 25 ~ canals and water conductor systems, major canal structure, power house, tunnels, adits, penstocks, command area for OFD and drainage works, soil conservation, etc. Apart from the above, the geological investigation, seismic

investigation, foundation investigation and construction material survey for the project should also be discussed.

- **Hydrology:** This chapter would include an index map and bar chart showing locations of various hydrometric, climatic and rainfall stations and the data availability at those stations. A brief note about quality, consistency, processing and gap filling of the data should be furnished. Apart from the above, the availability of water for the benefits envisaged, design flood for the various structures, sedimentation studies, simulation studies, flood routing studies, backwater studies, etc, should also be carried out and discussed.
- **Irrigation Planning:** This chapter would include all aspects of irrigation planning including source wise (such as ground water, surface water, water bodies) already existing irrigation facilities in the proposed command.
- **Planning for other intended benefits:** This chapter would include a brief details of other benefits like flood control and drainage, power, drinking water requirements, etc.
- **Environmental and Ecological Aspects:**

Detailed description of Chapter wise inputs/ required to be incorporated if applicable (directives as provided by the specialized directorates to be incorporated in the chapters)

1. **Executive Summary.**
 2. **Index Map:** Maps uploaded would be showing details of the concerned river systems, headworks, canal systems and distributary system, command area under LMC & RMC of the project, alignment of canals and command area of adjacent projects, if any, in different colour.
- Chapters**
3. **General Data:** This chapter would include information on location, category and other physical features of the project.
 4. **General Planning chapter:** This would include the discussion on the master plan for overall development of river basin and stages of basin development, alternative proposals of the project with their merits and demerits, priority of the project in the overall development of the basin, the effect of the scheme on the riparian rights existing upstream and downstream of the project, etc.
 5. **Hydrology chapter** Upload Brief of Hydrology Chapter indicating data collected, processing of hydrologic & meteorological data, various studies made etc. as per the Guidelines.

5.1) Upload map showing locations of various hydrometric, climatic and rainfall stations along with data availability at these stations.

5.2) Upload brief note about quality, consistency, processing and gap filling of data.

5.3) Upload Water Availability Study and net hydrological yield series.

5.4) Upload Simulation studies / Working Table.

5.5) Upload Integrated Simulation Studies (if more than one reservoir in the system).

5.6) Upload Design Flood Studies for various structures.

5.7) Upload Design Flood Studies for diversion during construction.

5.8) Upload Design storm input SPS/PMP/particular return period rainfall.

5.9) Upload Glacial Lake Outburst Flood (GLOF) study in case of Himalayan Rivers.

5.10) Upload Flood routing studies.

5.11) Upload Backwater studies.

5.12) Upload Reservoir Sedimentation Studies.

6. Irrigation Planning Chapter : Upload Brief of Irrigation Planning Chapter indicating Command area, existing and proposed cropping pattern, intensity of irrigation, Crop Water Requirement, Water Planning, Success rate, already existing irrigation facilities etc., as per the Guidelines.

7. Power potential studies chapter(only if multipurpose project)

8. Inter-State aspect Chapter

8.1) Upload Brief of Inter-State aspect Chapter indicating the details of submergence due to the project, water allocation for the State, water allocation for the other States, Committed utilisation etc. as per the Guidelines.

8.2) Is any water dispute for the basin/sub basin under ISRWD Act 1956 pending with Central Govt.?-if Yes upload the detail. Also Indicate year since which pending.

Also Upload copy of concurrence/Comments of all basin/Sub basin States also.

8.3) Is there any Tribunal constituted and functioning for the basin/sub basin except Cauvery, Krishna and Indus Basins. If yes, upload the detail. Also indicate year of constitution.Upload copy of prior consent of the tribunal also.

d) Is there any Water allocation provision for the State for the basin/sub-basin by decision of Tribunal/Agreement. If yes, upload the details. Also indicate quantum of allocation in (BCM /TMC / MAF).

e) If the project lies in inter-State river basin/sub-basin and the above conditions in 8(b), 8(c) and 8(d) are not attracted. then PR/PFR/DPR/RCE with change in scope needs to be circulated to Co-basin/sub-basin States. Whether a copy of PR/PFR/DPR/RCE with change in scope has been circulated to Co-basin / sub-basin States Also upload the details in this regard and upload copy of the comments of the co-basin States.

f) Upload Committed utilisation from upstream Projects (Irrigation, Water Supply, Thermal, Industrial, Hydel (evaporation losses/outside basin diversion) (in BCM/TMC/MAF) for the following: i) Projects completed ii) Projects under construction iii) Future Projects

g) Upload Committed utilisation from downstream Projects (Irrigation, Water Supply, Thermal, Industrial, Hydel (evaporation losses/outside basin diversion) (in BCM/TMC/MAF) for the following: i) Projects completed ii) Projects under construction iii) Future Projects

h) If there is submergence due to projects in other State, upload the detail and upload copies of the acceptance of the submergence, compensation of Land and settlement of oustees.

i) If the command area of the project extends to other States, upload the details in this regard and attach copy of the agreement with other State.

j) If the part dam or its component lie in the other State, kindly upload the details in this regard and attach copy of the agreement with other State.

k) Whether operation and regulation of the project conform to the stipulation made in the Tribunal decision/agreement and also the mechanism for such operation. If yes, upload the detail and attach a certificate to the effect from Principal Secretary/Secretary concerned of the State mentioning relevant clauses and manner of compliance.

9. A

10. This chapter should include detailed topographical surveys in respect of river, reservoir, head works (dams, dykes, barrages, weirs and other auxiliary component), plant site and colonies, canals, branch canals and water conductor systems, major canal structure, power house, tunnels, adits, penstocks, command area for OFD and drainage works, soil conservation, etc

11. This chapter would include a brief details of other benefits like flood control and drainage, power, drinking water requirements, etc.

12. Upload **Environmental and Ecological aspect** Chapter

13. Brief description wrt. Not applicable subchapters chapter and sub chapter wise requirements.

14. Any other chapter