

Detail Project Report(DPR)

Chapter wise Guideline Provisions and Directive

Project Authority is advised to submit Environment Impact Assessment Report together with R&R Plan, Environment and Disaster Management Plans along with broad cost estimate. An application for forest clearance, if required, may be sent to the Ministry of Environment, Forest & Climate Change (MoEF&CC) with a copy to the Chief Engineer, EMO, CWC. In case Schedule Tribe population is likely to be affected, the R&R Plan will also be submitted to the Ministry of Tribal Affairs (MoTA)

The submission and clearance of Environment Impact Assessment, R&R Plans etc. and Forest Clearance shall be governed by the prevailing norms and regulations of the related Ministries. Copy of DPR of any project proposed in the river basin for which no tribunal award or inter-State agreement exists, will be circulated to the co-basin States by the Project Authority. CWC will send copy of the DPR to Resident Commissioner of the party States in New Delhi. After circulation of the project report, the co-basin States have to furnish views/observations on the project proposal / report within 45 days of receipt of the report after which it will be presumed that the State has nothing to say.

Requirements as per **Guidelines for Submission, Appraisal & Acceptance of Irrigation & Multipurpose Projects, 2017**

1. In case the DPR of a project is directly submitted without Preliminary Report/Concept Note, Project Authority needs to furnish a certificate indicating that the DPR has been prepared in a **consultative mode** with the specialized directorates of CWC i.e. **Hydrology, Irrigation Planning, Inter-State Matters and Project Planning from concerned design unit**. The certificate needs to be counter signed by the concerned team dealing above matters in the appraising agency. The Certificate format is given at Appendix – A. The team will also undertake field visit as and when required.
2. A **certificate from Geological Survey of India (GSI)** or any agency accredited by GSI, indicating that complete Geological exploration for the project required for the DPR stage has been carried out. The Certificate format and the list of agencies accredited by GSI are given at Appendix – B.
3. A **Certificate from Central Soil and Materials Research Station (CSMRS) / or an agency accredited** by CSMRS needs to be furnished stating that the required **rock/soil mechanic tests** have been carried out from the rock/soil

- samples collected through Geological exploration. The certificate format and the list of agencies accredited by CSMRS are given at Appendix – C.
4. **Certificate from CSMRS / or an agency accredited by CSMRS towards quarry area and suitability of available construction material** both qualitatively and quantitatively within economical reach has been assessed for the project parameters at DPR stage. The certificate format is given at Appendix – D.
 5. **Certificate from Central Ground Water Board** that the command area will not be affected by water logging due to the irrigation project and there will not be further ground water depletion. The certificate format is given at Appendix – E.
 6. **A certificate from State Agriculture Department** signed by Director, Agriculture as per the format enclosed as Appendix - F.
 7. **A certificate from National Committee on Seismic Design Parameters (NCSDP)** shall be submitted for the site specific seismic design parameters in accordance to the Guidelines for preparation and submission of site specific seismic study report of river valley project. The Certificate format and the proforma to be furnished as a check-list in the beginning of the study report is enclosed as Appendix – G.
 8. **A Certificate signed by concerned Principal Secretary** of State Govt. indicating status of Action taken for **Statutory clearances** such as Environment Clearance, Forest Clearance from MoEF&CC and clearance in respect of R&R of Tribal population from MoTA. The Certificate format is given at Appendix – H.
 9. **A Certificate signed by concerned Principal Secretary** of State Govt. indicating that the project is going to be **constructed through contract** and special team has been planned for timely construction of project as per the MoWR, RD&GR “Guidelines for preparation of Detailed Project Reports of irrigation and multipurpose projects, 2010”. The Certificate format is given at Appendix – I.
 10. The **CDO certificate** as contained in “Guidelines for Submission, Appraisal and Clearance of Irrigation and Multipurpose Projects, 2010” (Appendix - J), duly signed by Chief Engineer, Central Design Organisation and counter signed by Principal Secretary may be submitted. The CDO Certificate should include the list of **BIS codes which has been followed** establishing safety of structure and optimization of various components including Design Flood Studies as per PMF/SPF/Diversion Flood.
 11. **Concerned Principal Secretary of State Govt. needs to certify** that the project involves _____ Km of **Main Canal for which 100% survey** has been carried out. For Distributaries & Minors, in the command there are

- _____ types of soil group and for each soil group _____ % of survey has been carried out. The Certificate format is given at Appendix – K.
12. **Concerned Principal Secretary** of State Govt. needs to certify that **Proper Cadastral survey** has been carried out for all the property coming under submergence, for reservoir and canal network. The Certificate format is given at Appendix – L.
 13. Concerned **Principal Secretary of State Govt. needs to send copy of DPR to the Principal Secretaries of all other co-basin States for their views.** Copy of the letter vide which DPR was sent and Receipt for the same by the co-basin States needs to be submitted. Views of the co-basin States if received may also be submitted. The Certificate format is given at Appendix – M.

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

Project Name:

WF2 Proj

1) Upload **Executive Summary**

2) Upload **Hydrology chapter**

- a) Upload Brief of Hydrology Chapter indicating data collected, processing of hydrologic & meteorological data, various studies made etc. as per the Guidelines.
- b) Upload map showing locations of various hydrometric, climatic and rainfall stations along with data availability at these stations.
- c) Upload brief note about quality, consistency, processing and gap filling of data.
- d) Upload Water Availability Study and net hydrological yield series.
- e) Upload Simulation studies / Working Table.
- f) Upload Integrated Simulation Studies (if more than one reservoir in the system).
- g) Upload Design Flood Studies for various structures. system).
- h) Upload Design Flood Studies for diversion during construction.
- i) Upload Design storm input SPS/PMP/particular return period rainfall.
- j) Upload Glacial Lake Outburst Flood (GLOF) study in case of Himalayan rivers.
- k) Upload Flood routing studies.
- l) Upload Backwater studies.
- m) Upload Reservoir Sedimentation Studies.
- n) Upload Other sub chapter (mention name of the sub Chapter).

3) Upload **Irrigation Planning chapter**

- a) Upload Brief of Irrigation Planning Chapter indicating Command area, existing and proposed cropping pattern, intensity of irrigation, Crop Water Requirement, Water Planning, Success rate etc., as per the Guidelines.
- b) Upload present position of irrigation in the command through existing canals, tanks, lift schemes. wells etc.
- c) Upload Particulars of all irrigation projects (including minor schemes) existing/proposed in the command.
- d) Upload details of the areas and percentages of the CCA that will be irrigated during kharif, rabi, two seasonal, summer and perennial.

- e) Upload Water availability/ net hydrological yield series.
 - f) Upload the details of any potential areas, where ground water is available including the quantity & quality of the ground water.
 - g) Upload the details of proposed G.W utilization as certified by CGWB and a statement thereof.
 - h) Upload the details of the quantum of available ground water assessed and plan for its conjunctive use with surface water.
 - i) Upload the details of the semi-detailed soil surveys carried out for the entire command and the soil and land irrigability classifications.
 - j) Upload the details of the pre-project cropping pattern and the proposed cropping pattern along with justification.
 - k) Upload the pre-project and proposed cropping pattern certified by Director, State Agricultural Department in the prescribed format (Appendix – F of the checklist) (for the purpose of estimating the agricultural benefits) giving the statement of having considered the soil characteristics and land irrigability characteristics of the command area in-deciding the percentage of the command area falling under respective crops as suggested in DPR.
 - l) Upload the details of conveyance and field irrigation efficiencies for paddy and upland crops during kharif, rabi etc.
 - m) Upload about the details of the method used for determining the crop water requirements.
 - n) Upload the 10-daily/monthly crop water requirements at the canal head as worked out by Modified Penman Method.
 - o) Upload the details of the drinking water needs of-the population projected for the 25-30 years after construction of the project on enroute and that in the command of the project.
 - p) Upload the details of the simulation studies. (Working Tables) and conclusions arrived from the various alternatives explaining the factors and assumptions been included and discussed.
 - q) Upload the Integrated working tables (for more than one reservoir in the system)
 - r) Upload monthly reservoir operation studies carried out at least for 20 years and summary on annual basis.
 - s) Upload Success rate study.
 - t) Upload the detail of scope of introduction of modern technology like sprinklers, drip irrigation etc.
 - u) Upload any information about the stablisation of existing irrigation proposed and water demand.
 - v) Upload any other information in relation to the project.
- 4) Upload **Inter-State aspect chapter**
- a) 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.
 - b) 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.
Upload copy of concurrence/Comments of all basin/Sub basin States also.
 - c) 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 for the State for the basin/sub-basin by decision of Tribunal/Agreement if any. If yes upload the detail. Also Indicate quantum of allocation If in (BCM /TMC / MAF).
 - e) e) i) Whether the project lies in inter-State river basin/sub-basin and the above conditions in 4(b), 4(c) and 4(d) are not attracted. If yes, the PR/PFR/DPR/RCE with change in scope to be circulated to Co-basin/sub-basin States. Whether the copy of PR/PFR/DPR/RCE with change in scope circulated to Co-basin / sub-basin States.
Upload the detail and upload copy of the comments of the co-basin States.

- f) 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: iv) Projects completed v) Projects under construction vi) Future Projects
 - g) 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: iv) Projects completed v) Projects under construction vi) Future Projects
 - h) h) Is there submergence due to projects in other State. if yes If any submergence involved, upload the detail and upload copies of the acceptance of the submergence, compensation of Land and settlement of oustees.
 - i) Does the command area of the project extends to other States. If yes, upload the detail and attach copy of the agreement with other State.
 - j) Does the part dam or its component lie in the other State. If yes, upload the detail 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.
- 5) Upload **International aspect chapter**
- 6) Upload **Survey & Investigation chapter** which 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. Apart from the above, the geological investigation, seismic investigation, foundation investigation and construction material survey also to be included.
- 7) Upload **Design chapter**.
- 8) Upload **design Drawing volumes**
- 9) Upload **Instrumentation chapter**.
- 10) Upload Construction Methodology, Construction Scheduling and **Plant Planning aspect chapter**
- 11) Upload **Cost Estimate chapter**
- a) Upload Cost Estimate in excel sheet linking all the items
 - b) Upload Latest Schedule of Rate.
 - c) Upload Certificate from Revenue Department and Forest Department.
 - d) A certificate from State Govt. that the quantity is as per the drawings and design requirements.
 - e) Upload Hourly use rate and analysis for item rate in excel.
 - f) Upload Other sub chapter (mention name of the sub Chapter)
 - g) Upload Other sub chapter (mention name of the sub Chapter)
 - h) Upload Other sub chapter (mention name of the sub Chapter)
- 12) Upload **Economic Evaluation study (B.C ratio)**
- a) Upload the allocated cost for the following components of the multipurpose project may be furnished, as the case may be (excel) (a) Irrigation (b) Power (c) Flood Control (d) Navigation (e) Water supply (f) Any other
 - b) Upload the details of various departments of the State/Centre agreed to the sharing of the above allocated cost
 - c) Upload the details of the crop wise benefits worked out for irrigated and un irrigated crops being grown before project in consultation with the agriculture department and statement thereof.
 - d) Upload the crop wise benefits worked out for proposed cropping pattern after. the introduction of irrigation in consultation with the agriculture department and statement thereof.
 - e) Upload the benefits other than those considered in the B.C. Ratio.

- f) Upload the benefit from Gallper land, if proposed, based on lease rates admissible and statement from concerned Central/State authorities.
- g) Upload the benefits from fisheries, horticulture, if proposed, based on lease rates admissible and statement from concerned Central/ State authorities
- h) Upload the B.C Ratio computation sheet.
- i) Upload any other information in relation to the project.

13) Upload **Design of Electro Mechanical Components chapter (only for Multi-purpose projects)** .

14) Upload Power potential studies chapter(in case of multipurpose only)

15) **Upload latest EIA report with R&R Plan, Environment Management Plan, Disaster Management Plan and broad cost estimates there of.**

16) **Upload forest clearance application and related documents**

17) **Upload GSI report if any**

18) Upload CSMRS Report if any

19) Upload Ground Water Report if any

20) Upload any other chapter(Please specify name of the chapter)

Note: a clear and coloured **index map** be uploaded in attachment section showing details of 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.