

Outlined Terms of References (TOR)

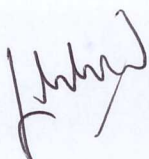
Upper Modi Cascade (Upper Modi 'A' 42 MW and Upper Modi 18.2 MW) Hydroelectric Project

The package consists of two hydropower projects in cascade. Upper Modi 'A' (UMA42) at present is conceived as 42 MW Run of the River project whereas Upper Mode (UM18) will have installed capacity of 18.2 MW and will be operated using tailrace discharge of Upper Modi 'A'.

The main objective of present study is to carry out Review of the feasibility study reports and to prepare tender documents for EPC Contract inclusive of tender drawings and construction plan to meet NEA, GoN and leading multilateral agencies requirements for construction of the project.

Following are the specific objectives of the consulting services outlined for UMA42 and UM182

- Review feasibility and other available reports, data and identify the gaps.
- Revisit project layout, design and size of major components.
- Prepare detail topographic maps for dam site, powerhouse site and other project areas as necessary.
- Update project hydrology and sediment studies,
- Conduct geological and geotechnical studies/ investigations where ever required.
- Conduct power evacuation study,
- Update EIA and SIA studies/assessment.
- Review the design of the project to finalize tender drawings and construction planning to include in EPC tender documents.
- Assess the present status of access road and review the access road alignment based on the available drawings, design bridges and prepare Tender Document for upgrading of existing road and additional road required for the project.
- Prepare complete EPC tender documents for the construction of UMA42 and UM18 separately.
- Estimate cost of both projects.
- Analyze financial structure, financing plan and recommend the most appropriate structure/plan
- Prepare updated financial analysis based on detailed project cost, refined implementation schedule, risk analysis, etc. for the arrangement of fund from financial agencies.
- Analyze and recommend appropriate institutional arrangement for project implementation.



Project Manager