

PROJECT DESCRIPTION SHEET – 1200 MW TEESTA III HYDROELECTRIC PROJECT

TEESTA III HYDROELECTRIC PROJECT

CLIENT:

WAPCOS Limited

LOCATION:

North Sikkim, Sikkim



SCOPE OF SERVICES:

AEMPL engaged to provide Review Engineering Consultancy Services for 1200 MW Teesta – III HE Project, Sikkim and further provision of Design and Project Management Consultancy Services for Balance works of the project

PROJECT DESCRIPTION:

Teesta – III Hydro Electric Project has been contemplated as a run of the river scheme situated in the North Sikkim district of Sikkim. The Dam site is located on River Teesta just d/s of confluence of River Laching Chu and Lachung Chu. The Project will utilize a gross head of 817 m and design discharge of 175 cumecs for generation of 1200 MW.

The Project comprises a 60 m high Concrete Faced Rockfill Dam, two de-silting basins of 17m X 23m X 320m; 14.3km long 7.5m diameter HRT, 15.5 m diameter circular surge shaft of 160m height, 1806.67m long & 2 nos. of 4m diameter pressure tunnels including vertical shaft and inclined shaft of length about 1650 m. An underground power house housing 6 units of 200 MW. A 1.2 km long 8.2x8.0 m tunnel conveys back the water back to River Teesta after power generation.

The following works have been completed by M/s Aquagreen Engineering Management Private Limited for the Review Engineering during Construction Stage (2008-2010).

- To study and evaluate the construction design/ drawing from the point of view of construction suitability to site condition.
- Review the works under execution with the objective to achieve the scheduled progress.
- Review the Construction & Equipment Planning.
- Review the implementation of QA/ QC program implemented by the contractor and engineering agency.

The following works are currently being executed by M/s Aquagreen Engineering Management Private Limited for the Design and Project Management Consultancy Services for Balance works (2015 – Ongoing)

- Detailed Design Service for balance works
- Construction supervision services on behalf of WAPCOS during execution of the Project

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including supervising construction, equipment installation and commissioning with a supervision team, undertaking quality assurance on the site and ,oversee the contractors' quality control systems, provide expertise as needed on site on a case by case basis. Review the Construction & Equipment Planning.

- Vetting of Contractor Claims for the Project
- Preparation of DPR of Dam Toe Power House for the Project