

Brief Scope of Work

The scope of the proposal for **FGD Wastewater Treatment System Works** (FGD WWTS) includes Design, Engineering, Supply, transportation & storage to & at site / work sites, Construction, Erection, Testing & Commissioning works of Complete FGD wastewater treatment system work including all Civil, Electrical and Control & Instrumentation works, etc. as specified in Technical specifications.

Salient Features of Major System & Equipment are as follows:

FGD wastewater treatment system shall be a common plant for treating the neutralized FGD wastewater generated from FGD system of both units of stage-II (2x490MW).

A) MECHANICAL WORKS:

- i) Primary treatment system consisting of settling tank with Scrapper mechanism and secondary treatment system consisting of sand filtration system associated with tanks and pumping system.
- ii) Sludge Handling system consisting of Sludge sump, Belt Press system and associated pumping system.
- iii) Air conditioning & Ventilation system.
- iv) Complete piping, pipe pedestals and/or pipe trestle, fittings, support, all associated valves etc. including hydro testing of piping system.

B) ELECTRICAL WORKS:

All associated Electrical drives & other Electrical works for the package as below-

- i) LT SWGR
- ii) LT Motors
- iii) Power cables and control cables
- iv) Earthing & Lightning protection
- v) Cabling, lighting

C) C&I WORKS:

- i) Complete control and instrument system for FGD WWTS.

D) CIVIL WORKS:

- i) Control & MCC Room
- ii) Structural steel shed and Belt Press Building.
- iii) Associated Civil, Structural & Architectural Works for various Equipment/Systems