

BRIEF SCOPE OF WORK

The scope of Ash Disposal cum AWRS Package includes Design, Engineering, Supply, Construction, Erection, and Testing & Commissioning of complete Ash Disposal & Ash water recirculation systems, HT & LT Switchgear & Bus ducts including all Civil, Electrical and Control & Instrumentation works etc. as specified in technical specifications.

Salient Features of major system & equipment are as follows:

A) ASH DISPOSAL & AWRS SYSTEM (S1/S2 and Khadiya Dyke):

- 1) Supply, erection and commissioning of MS ERW combined ash slurry disposal piping from plant boundary to S1/S2 and khadiya dyke separately along with garlanding and routing of ash pipeline inside the disposal area, extensions into the dyke at number of discharge points complete with basalt lined pipe bends, structural steel supports etc.
- 2) **AWRS for khadiya Dyke** : Design, Engineering, Supply, erection and commissioning of Ash Water Recirculation System consists of Pumping system located inside khadiya ash dyke area, Piping (from plant boundary to Pump House) including valves, fittings, Supports, Pedestals, structural etc, EOT Crane for AWRS Pump House.
- 3) **AWRS for S1/S2 Dyke** : Design, Engineering, Supply, erection and commissioning of Ash Water Recirculation System consists of Pumping system located between S1 & S2 dyke, Piping (from plant boundary to Pump House) including valves, fittings, Supports, Pedestals, structural etc, EOT Crane for AWRS Pump House.

B) FUEL OIL UNLOADING SYSTEM:

- 1) Design, engineering, supply, erection and commissioning of fuel oil unloading system through rail, fuel oil unloading pump house, piping from fuel oil unloading pump house to fuel oil storage tank of Stg-III including valves, fittings, Supports, Pedestals, structural etc, EOT crane for fuel oil unloading pump house.

C) ELECTRICAL WORKS:

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

- 1) HT & LT SWGR & Bus ducts
- 2) Power cables and control cables
- 3) Earthing & Lightning protection
- 4) Cabling, lighting
- 5) Battery and Battery charger (If applicable).

D) C&I WORKS:

- 1) Measuring instruments, Motorized actuators, Instrumentation cables & PCP for fuel oil unloading, AWRS, etc.

E) Associated Civil, Structural & Architectural Works for various Equipment/Systems.