

Brief Scope of Work & Salient Technical Features

The scope of **Ash Transportation and Conveying system (from plant to ash mound)** includes Design, Engineering, Supply, Construction, Erection, and Testing & Commissioning including all Civil, Electrical and Control & Instrumentation works, etc as specified in the Technical specifications.

Broad scope of work are as follows:

- (i) Belt conveying system consists of series of Trough conveyors (within the plant boundary and within the Ash mound) and Pipe conveyors from plant end to ash mound end, along with Transfer Points, associated system and equipment. Travelling Stacker shall be installed for stacking of ash in Stackyard. Dust Suppression, SW, PW, Seepage water, FDPS for the ash conveying system shall be in the scope of the work. Mobile equipments like Dozer, Dumper, Payloader etc shall be required for Ash mound application.
- (ii) **ELECTRICAL WORKS:**
All associated Electrical drives & other Electrical works for the package as below.
 - 1) Power Transmission lines
 - 2) Transformers
 - 3) HT & LT SWGR & Bus ducts
 - 4) Power cables and control cables
 - 5) DC Battery and charger
 - 6) Earthing & Lightning protection
 - 7) Cabling, lighting
- (iii) **C&I WORKS:**
 - 1) Complete control and instrument system for Ash Conveying & transportation system,
 - 2) Electric power supply system (24V DC), control desk/panels, etc.
- (iv) Associated Civil, Structural & Architectural Works for various Equipment/Systems. Dust Suppression Pump House, Workshop, Dozer shed, MCC Room, Control/office room etc.

Salient Technical Features

Dry ash shall be conveyed from plant end upto ash mound or ash stackyard through conveyor belt arrangement. Series of Trough conveyors and Pipe conveyors shall be used for conveying. Bottom ash and Fly ash shall be conveyed separately from plant end.

Travelling Stacker shall be used for stacking of ash into Ash stackyard. Ash can also be dumped directly into the ash mound through Conveyors fitted with Telescopic chute arrangement at discharge end.

Heavy Equipment like Dozer, Front loader, Dumper, Excavator, Tractor etc shall be used for Ash Mound application.

Workshop Buildings, Seepage water pumps, Dust suppression system , Office & control Room buildings, associated Civil & electrical works etc shall be in the scope of the work.