

Brief Scope of Work

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 Technical specifications.

Salient Features of major system & equipment are as follows:

- (i) The proposed Ash Transportation and Conveying system (from plant to ash mound) shall be used to transport bottom ash and fly ash (in a sequential manner) from the B ATP-06 (Under NTPC EPC vendor scope) to transport directly for use in Ash Mound through intermediate **Trough Conveyor, Pipe Conveyors, Relocatable belt conveyors, Shiftable belt conveyors, Mobile transfer Tripper and Crawler Mounted Spreader Machine.**

Alternately, ash discharged from Pipe Conveyors shall be stacked temporarily in Yard namely “Temporary Yard”, through yard conveyor and rail mounted **Stacker**. From “Temporary Yard”, Ash shall be reclaimed by rail mounted **Reclaimer** for conveying to use in Ash Mound through Relocatable belt conveyors, Shiftable belt conveyors, Tripper and Spreader Machine.

Alternately, ash discharged from Pipe Conveyors shall be Stacked through Radial Stacker into “Emergency Stockpile”.

Mobile equipments required for Ash Dyke shall be in the scope. O&M for Ash Transportation and Conveying system for one yr shall be in the scope.

- (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.