



TENUGHAT VIDYUT NIGAM LIMITED
2x210 MW Tenughat Thermal Power Station
Jharkhand
Dry Fly Ash Collection & Disposal System



15.00 DATA, DRAWINGS & INFORMATION TO BE SUBMITTED WITH THE OFFER

The Bidder's formal proposal must be accompanied by, but not limited to, the following drawings/information and documents as required for all the basic components of the plant and the plant as a whole specifically indicating the limits of supply as applicable.

15.01 General arrangement drawings indicating outline dimensions, constructional features, space required for operation and maintenance and weight of equipment, pipe/cable connections, materials of construction of following equipment.

- Air transport vessels
- Ash inlet valve
- Plate valve
- Fly ash pipelines fittings
- Expansion joints/ bellows

15.02 Proposed overall layout of the plant with outline dimensions and pipe work as applicable.

15.03 General arrangement – Plan & cross sectional drawings of following indicating all equipment, components.

- a. Compressor air station including compressors , blowers and dryer house, etc.
- b. Intermediate Silos
- c. MCC, Switch gear and control room.
- d. Main Silo and Utility building
- e. Cooling Tower & cooling water pump

15.04 PID of dry ash collection and disposal from hopper to intermediate silos and intermediate silos to main silo(s).

15.05 Interconnection drawing of proposed new ash handling system from existing hoppers.

15.06 General arrangement drawing of Ash evacuation system indicating plate valve, expansion joint, ash inlet valve, ash transport vessel etc. indicating the disposition of vessels.



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- 15.07 Single line flow and instrumentation diagram for all system/subsystem and plant as mentioned in the TS. Electrical single line diagram, control panel layout drawing, interlock scheme, as applicable.
- 15.08 List of all guaranteed data.
- 15.09 Piping layout of the systems with typical cross sections.
- 15.10 Predicated characteristic curves of compressors and blowers covering the entire range of performance from zero to maximum capacity as applicable and as required.
- 15.11 Complete write up with control philosophy of the proposed dry ash handling system.
- 15.12 Equipment wise requirement of the instrument air and cooling water with pressure.
- 15.13 Terminal points/ battery limits.
- 15.14 A comprehensive write-up or Brochure indicating the details of the testing facilities including different tests that can be performed in the shop of the manufacturer and the quality assurance programme of the Bidder and his sub-vendors.
- 15.15 Illustrative Manufacturer's catalogues and literature for compressor, blower, heaters, pumps, feeder, unloader, fans, etc showing all detail of equipment, instruments, and method of operation.

The Manufacturer's catalogues will include

- General arrangement of equipment giving overall dimensions
- GA drawings of electric motors
- Details of different types of valves and their specialities
- Details of pipes & fittings

- 15.16 A comprehensive experience list, showing the locations where Bidder has supplied and commissioned similar plant as under this bid document for similar application, under similar duty conditions, with complete details like year of commissioning, performance



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record, type of fuel, plant capacity, name of client with address & phone number, e-mail ID, etc. The necessary documentary evidence for the above to be included.

- 15.15 Technical particulars of equipment as asked in TS.
- 15.18 Schedule of deviation to technical specification and draft contract duly filled in.
- 15.19 Schedule of weights including the details of the heaviest equipment and largest equipment dimensions to be handled.