

NTPC LIMITED

Salient Technical Features

Package Name : Main Plant Package for Gadarwara STPP Stage-II (2x800MW),
Telangana STPP Stage -II (3 X 800 MW), Nabinagar STPP
Stage-II (3X800 MW)

Project : Gadarwara STPP Stage-II (2x800MW), Telangana STPP
Stage -II (3 X 800 MW), Nabinagar STPP Stage-II (3X800 MW)

IFB No. : 2024_NTPC_89434_1

Bidding Document No.: CS-8014/9592/0371-001A-2

“Salient Technical Features of the equipment/systems/services covered in the Bidding Document No. CS-8014/9592/0371-001A-2 are mentioned below. These Salient Technical Features are mentioned only to facilitate the prospective bidders to prima-facie understand the requirements under the tender and shall not in any way limit or alter the scope of work and technical features/specification of equipment/ systems/ services covered in the Bidding Documents. Detailed provisions in regard of scope of work and Technical features/ specification of equipment/ systems/ services, contained in the Bidding Documents shall be final and binding.”

A BRIEF SCOPE OF WORK

The Brief scope of work for the Main Plant Package for Gadarwara STPP Stage-II(2x800MW), Telangana STPP STAGE II (3 X 800 MW), Nabinagar STPP Stage-II (3X800 MW) is as follows:

Design, Engineering, Manufacture, Supply, Construction, Erection, Testing & Commissioning works for Main Plant Package on the basis of single point responsibility, completely covering the activities and services in respect of Steam Generator and Auxiliaries, Electrostatic Precipitator, Biomass co-firing capability, Auxiliary PRDS complete, Steam Turbine & Auxiliaries, Air Cooled Condenser, Generator & Auxiliaries, ECW system for TG & SG auxiliaries excluding Station auxiliaries, Condensate polishing plant (CPU) and its regeneration system, Mill Reject Handling System, Air Conditioning & Ventilation Systems for Main Plant Area, Inert Gas Fire Extinguishing System (IGFES) for CCR, CERs, UPS & Battery Charger Rooms, etc. in TG Building, Critical Piping & Power Cycle piping, LP Piping in Main Plant area, DC Batteries, Battery chargers, LT switchgear LT power cables, LT control cables, Lightning Protection, Cabling, Earthing, all Control & Instrumentation(C&I), Pipe / Cable racks in Main Plant Area, Civil, Structural & Architectural works of Main Power House, Common Control Room, ESP Control Room, Area Grading, Roads & Drains, underground facilities like drainage, sewerage, trenches, etc. in Main Plant area covered under the specifications:

- i. Basic Engineering of the plant including preparation of Plant Definition Manuals.

- ii. Detailed design of all the equipment and equipment system(s) including civil, structure steel & Architectural works included in bidder's scope.
- iii. Providing engineering drawings, equipment sizing & performance data, instruction manuals, as built drawings and other information.
- iv. Compliance with statutory requirements and obtaining clearances from statutory authorities, wherever required.
- v. Complete manufacturing including shop testing/type testing.
- vi. The complete Civil, structural and architectural works
- vii. Packing and transportation from the manufacturer's works to the site including logistic studies, insurance, customs clearance & port clearance, port charges, if any.
- viii. Receipt, storage, preservation, handling and conservation of equipment at the site.
- ix. Fabrication, pre-assembly, if any, erection, insurance, testing, commissioning and completion of facilities including putting into satisfactory operation all the equipment including successful completion of initial operation.
- x. Performance and guarantee tests along with initial operation.
- xi. Supply of spares on FOR site basis.
- xii. Reconciliation with Customs Authorities.
- xiii. Satisfactory conclusion of the Contract.
- xiv. Insurance and other requirements
- xv. Drain separation and the provision of Sumps/Pits for collecting effluents of Main Plant area for further pumping by Employer to ensure ZLD.

Note: Detailed scope of work has been specified in the bidding documents.