

Salient Technical Features of the equipment / systems / services covered in the Bidding Document 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 / system / services covered in the bidding documents. Detailed provisions in regard of scope of work and technical features / specification of equipment / system / services covered in the bidding documents shall be final and binding:

A. Brief Scope of Work

Design, Engineering, Re-engineering, Manufacturing, Refurbishment/Retrofitting, Fabrication, Assembly, Inspection and Pre-shipment Testing at supplier's works, Packing for transportation, Supply, Port Clearance, Port Handling & Port Charges, if any, forwarding to site, Inland transportation for delivery at site, inland transit insurance, unloading & Storage at site, installation, interconnection with related plant and equipment, calibration, testing, commissioning and putting the Control and Instrumentation System together with all accessories, auxiliaries and associated equipment, Performance & Guarantee test and handing over to the Employer complete Control and Instrumentation System comprising of:

- UNIT DDCMIS for control monitoring and operation of main plant equipments comprising of SG-C&I (BMS, SADC etc.), TG-C&I (TP including Over Speed Protection, EHC, TSC, ATRS, ATT, HP-LP BYPASS and Generator Auxiliaries etc.) and BOP C&I System (ID, FD , PA, APH, BFPs, CEP, APH, Heaters, etc.) , Electrical breakers.
- WATER DDCMIS for control monitoring and operation of common equipment at DM, PT & PT Chlorination, firewater pump house, CPU regeneration & service vessel, CW Chlorination, Electrical breakers.
- SAC DDCMIS for control monitoring and operation of common equipments of CW, Compressor, AC & Ventilation, Electrical breakers.
- AHP DDCMIS for control monitoring and operation of common equipments at / of AHP including Ash Silo, AWRS system, Electrical breakers.
- CHP DDCMIS for control monitoring and operation of common equipments at / of CHP including Electrical breakers.
- HMIPIS and Station LAN
- Measuring Instruments like Electronic Transmitters, Temperature elements & Temperature transmitters, Vibration Monitoring system, Analyzers for offsite areas, etc.
- Electric Power Supply Systems
- Process Connection and Piping including LIEs/ LIRs
- Power cables, Control Cables, Instrumentation cables and special cables
- Control Desk, Panels, furnitures and LVS.

- Main equipment (SG & TG) related special instrumentation system like Scanners, HEA Igniters and TSI, Auto Synchronizer, Over Speed Protection Modules & Load Transducers for Main Turbine and Generator.
- CCTV for plant and offsite areas
- Tools and Tackles
- Mandatory Spares

This scope shall also include dismantling of Employer's equipments/systems at site, AMS for DDCMIS and training for employer's personnel etc. as per the specification and scope defined in the bidding documents.

The detailed scope of work shall be as per specification and scope defined in the Bidding Document for 'Upgradation / R&M of Control System of Simhadri Stage-I (2x500MW)'.