

Salient Technical Features for Supply and Installation Effluent Quality Monitoring System (EQMS) at NSPCL Power Stations.

Salient Technical Features of the works covered in IFB no. CC/C&M/C-360 dated 20/10/2014 are mentioned below. These Salient Technical Features are mentioned only to facilitate prospective bidders to prime-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 Works covered in the Bidding Documents. Detailed provisions in regard of Scope of Work and Technical Features / Specification of Works, contained in the bidding document shall be final and binding.

Introduction

Supply and Installation of Effluent Quality Monitoring System (EQMS) at NSPCL Power stations (Bhilai, Roukela & Durgapur).

Location and Approach

Country	INDIA		
State	Chhattisgarh	Orissa	West Bengal
District	Durg	Sundargarh	Burdwan
Project Location	NSPCL Bhilai	NSPCL Rourkela	NSPCL Durgapur
Nearest Railway Station	Power House - Bhilai	Rourkela	Durgapur
Distance of project location from the Railway station	6 KM	20 KM	10 KM
Distance of Nearest Airport from the Project Site	Raipur 40 KM (Approx.)	Jamshedpur 120 KM (Approx.)	Kolkata 190 KM (Approx.)
Distance from Nearest Highway Point to the site	7 KM (Approx.)	8 KM (Approx)	5 KM (Approx.)

Area of Work:

SL. No.	Location	Site	Unit Capacity
1	NSPCL Bhilai	Captive Power Plant II (CPP II)	2x30 + 1 X 14 MW
2	NSPCL Bhilai	Power Plant III (PP III)	2x250 MW
3	NSPCL Durgapur	Captive Power Plant II (CPP II)	2X 60 MW
4	NSPCL Rourkela	Captive Power Plant II (CPP II)	2X 60 MW

Brief Scope of work:

- The Scope of work include design, engineering, manufacture, fabrication, assembly, pre-shipment testing at manufacturer's works, proper packing for transportation, custom/port clearance (wherever applicable), delivery at plant site, receipt, unloading, storage, transit cum storage insurance, installation, calibration, testing, commissioning, interconnection with related plant and equipment and putting the EQMS together with all accessories, auxiliaries and associated equipment for the existing stations(04nos.) of NSPCL along with Comprehensive AMC of four (04) years after expiry of warranty period of 2 years in a fully operational condition . The communication between EQMS and CPCB/SPCB/PCC server shall be implemented utilizing GPRS.
- The Scope Supply of each EQMS shall comprise of following:-
 - pH Analyzer 1 No.
 - Conductivity Analyzer 1 No.
 - Chemical Oxygen Demand (COD) Analyzer 1 No.
 - Biological Oxygen Demand (BOD) Analyzer 1 No.
 - Total Suspended Solid (TSS) Analyzer 1 No.
 - Oil in Water (OIW) Analyzer 1 No.
 - Temperature measurement 1 No.
 - Flow measurement 1 No.



3. Obtaining clearances from statutory bodies, if any as required for procurement, commissioning, operation & maintenance of EQMS.
4. Supply of all necessary tools, tackles, test instruments and deputation of experienced personnel for completion of the above installation, testing and commissioning work.
5. Training of personnel to operate the supplied system.
