

Ref No. : PE/PG/GTG/E-4281/13/CORRIGENDA/03

Date : 18.02.2014

**CORRIGENDA / ADDENDUM-03**

**SUBJECT: 2X800 MW GADARWARA STPP, STGAE-I (TG PACKAGE)**  
**OPEN (GLOBAL) TENDER ENQUIRY FOR CONDENSATE POLISHING UNIT (CPU)**  
**Our Ref : ENQUIRY No : PE/PG/GTG/E-4281/13, Dtd. 31.12.2013**


1. All the bidders are requested to note the following with reference to technical specs of the subject tender -

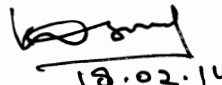
SL. NO.	SPECIFICATION REFERENCE NO.	SPECIFICATION REQUIREMENT	MODIFIED SPECIFICATION REQUIREMENT
i).	Specification No:- PE-TS-394-155-A001 VOLUME-IIB - SECTION - C1 - REV:- 0, PAGE 28 OF 363.	N-Pit effluent piping from N-Pit to Ash slurry pump house shall be 150 NB MSRL. The distance between N-Pit and Ash slurry pump house shall be 750 m and this piping shall be in bidder's scope.	N-Pit effluent piping from N-Pit to Ash slurry pump house shall be 150 NB MSRL. The distance between N-Pit and Ash slurry pump house shall be 900 meter and this piping shall be in bidder's scope.
ii).	Specification No:- PE-TS-394-155-A001 VOLUME-IIB - SECTION - C3 - REV:- 0, PAGE 97 OF 363 and 98 OF 363.	Page no. 97 of 363 and page no. 98 of 363	Modified page no. 97 of 363 and 98 of 363 attached with this corrigenda sheet.

**Please submit your offer considering the above points.**


2. It has been decided at BHEL PEM to extend the due date of submission of offer up to **06.03.2014 (02.00 P.M. IST)**

**Kindly submit your offer on or before this date & time.**


  
Deepak Kumar Azad  
Asst. Engineer/PGIII  
BHEL/PEM  
Phone no.- 0120-4213526, 09027261061

  
Digamber Singh  
Manager/PGIII  
BHEL/PEM  
0120-4368982, 09958006123

Deepak Kumar Azad/Digamber Singh,  
Asst. Engineer/Manager/PGIII/PEM  
Power Project Engineering Institute Building  
HRD & ESI Complex Plot No. 25, Sector -16 A,  
BHEL-PEM,Noida-201301 (U.P.)  
Tel No. 0120-4213526, 09027261061

	<b>TITLE:</b> <b>2X800 MW NTPC GADARWARA STPP –</b> <b>STAGE I</b>	SPECIFICATION NO. PE-TS-394-155-A001 VOLUME - II B SECTION - C3
	<b>TECHNICAL SPECIFICATION FOR</b> <b>CONDENSATE POLISHING UNIT</b>	REV.NO. 0      DATE :

- 1.0      CONDENSATE POLISHING UNIT shall be controlled from DCS (BHEL make & scope of supply). Bidder to provide all Engineering inputs for realization of controls in DCS and shall participate during FAT and commissioning of DCS at site.
  
- 2.0      Bidder to supply field instrumentation as shown in the P&ID which is the minimum requirement. Bidder to also include additional instruments (PG, PS, LS, TS, FS etc.) if required for the package along with fittings, valve manifold and other accessories for system completeness or required for the safe operation of the plant.
  
- 3.0      All the necessary analyzers like pH, Sodium, Silica, Conductivity, Concentration etc. shall be provided by the Bidder. All the analyzers shall be field proven, of reputed international make, microprocessor based with LCD display and with necessary self-diagnostic features. All analyzers shall provide 4-20 mA output signal capable of driving a load impedance of 500 Ohms minimum.
  
- 4.0      230 VAC UPS supply shall be provided at a single point. Further distribution to various instruments shall be in bidder's scope. Bidder to include necessary power distribution board in his scope. Any power supply other than the above, if required by any instrument/device, has to be derived by the bidder from the above supply and all necessary hardware for the same shall be in bidder's scope. Bidder to furnish UPS power requirement along with the bid.
  
- 5.0      The solenoid operated valves/ damper/gates shall have limit switches for open/close feedback. The coil of solenoid valve shall be suitable for 24 V DC only.
  
- 6.0      The detailed specification of instruments, JB, control panel etc. is enclosed in the subsequent clauses of this technical specification.
  
- 7.0      The make/model of various instruments/items/systems shall be subject to approval of owner/purchaser during detailed engineering stage. No commercial implication in this regard shall be acceptable. In case of any conflict and repetition of clauses in the specification, the more stringent requirements among them are to be complied with.

	<b>TITLE:</b> <b>2X800 MW NTPC GADARWARA STPP –</b> <b>STAGE I</b>	SPECIFICATION NO. PE-TS-394-155-A001 VOLUME - II B SECTION - C3
	<b>TECHNICAL SPECIFICATION FOR</b> <b>CONDENSATE POLISHING UNIT</b>	REV.NO. 0      DATE :

- 8.0 Drawings/Documents and data to be furnished after the award of contract for BHEL & NTPC review:
- Field instruments data sheet.
  - Instrument schedule.
  - Drive List and Analog / Binary Input / output List (in BHEL format)
  - Recommended Control write-up and Control Scheme/Logic.
  - JB grouping document.
  - LIE/LIR Grouping Document
  - HMI mimics manuscripts (in BHEL format)
  - List of Recommended Alarms and SOEs with set points. (in BHEL format)
  - Cable schedule and cable interconnection drawing.
  - Any other document decided during detailed engineering.
- 9.0 All temperature elements (RTDs, Thermocouples) shall be supplied along with Temperature Transmitters.
- 10.0 Supply, laying & termination of all cables shall be in bidder's scope as per "standard electrical scope between BHEL and Vendor" enclosed in this specification.
- 11.0 All motor operated valves/electrical actuators shall be envisaged with integral starter.
- 12.0 All the pneumatic type control valves shall be envisaged with smart positioner.
- 13.0 All JB's, Field Instruments, LIE/LIRs and the related accessories shall be in bidder's scope of supply.
- 14.0 Bidder's representative is required for a period of 3 to 7 working days at BHEL EDN Bangalore during FAT of DCS for implementation of the control system. Bidder to ensure availability of their representative at BHEL-EDN as & when required. For the mentioned period multiple visits may be required.
- 15.0 Bidder's representative is required at site during commissioning of DCS for a minimum period of 15 days. The mentioned period is minimum and may be extended, as required. Bidder to ensure availability of their representative at site as & when required. For the mentioned period multiple visits may be required.
- 16.0 Bidder to adhere quality plan requirement as indicated in Annexure IX for control and instrumentation items.