

PROJECT :- 1 X 660 MW BHUSAWAL TPS

PACKAGE :- CONDENSER ON LOAD TUBE CLEANING SYSTEM (COLTCS)

ENQUIRY No. :- PE/PG/BHU/E-6239/2019 Dtd. 24.06.2019

| FOR INDIENOUS BIDDER (INR)                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              | FOR FOREIGN BIDDER |  |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|--------------|-----------------------------------------|------------------------------------------|-----------------------------------|-------------------------------------------|-------------|-----------------|------------------------------------------------|------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------|--|
| SL NO.                                            | Discription                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UNIT | QTY | HSN/SAC CODE | UNIT PRICE (EX-WORKS) (Rs.)-DULY PACKED | TOTAL PRICE (EX-WORKS) (Rs.)-DULY PACKED | Freight % of total ex-works price | FREIGHT CHARGES @ OF EX WORKS PRICE (Rs.) | TYPE OF GST | RATE OF GST (%) | GST AMOUNT ON (TOTAL EX-WORKS + FREIGHT) (Rs.) | TOTAL F.O.R SITE PRICE (Rs.) | UNIT COST ON C & F BASIS (COST & FREIGHT BASIS - AT INDIAN PORT) (CURRENCY) | TOTAL COST ON C & F BASIS (COST & FREIGHT BASIS - AT INDIAN PORT) (CURRENCY) |                    |  |
| 1                                                 | Total price for design, manufacture, assembly, inspection, testing, packing for transportation and delivery, including final check up of installation, commissioning, trial run and PG testing of TWO (2) sets of COLTCS complete in all respect including all accessories & auxiliaries as specified in technical specification and as necessary including mandatory spares, commissioning spares of COLTCS including commission balls and special tools & tackles (as required) for erection & maintenance. |      |     |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
| 2                                                 | MAJOR BREAK-UP OF PRICES GIVEN IN 1 ABOVE                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |     |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
| 2.1                                               | Price for design, manufacture, inspection and testing, packing and delivery of COLTCS complete with all accessories except for Sl. No.2.2 & 2.3 as below                                                                                                                                                                                                                                                                                                                                                      | NOS  | 2   | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
| 2.2                                               | Lump sum price for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |     |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
|                                                   | i) Installation checks and Commissioning                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NOS  | 2   | 99833        |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
|                                                   | ii) Trial Run and PG Testing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NOS  | 2   | 99833        |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
| 2.3                                               | Lump sum price of Mandatory Spares for the total scope defined as per technical specification PE-TS-415-165-N002 (REV. 00). Mandatory Spares shall be as per Data Sheet-A (As indicated in Annexure-A).                                                                                                                                                                                                                                                                                                       | SET  | 1   | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
| 3.0                                               | GRAND TOTAL FOR EVALUATION (2.1 + 2.2 + 2.3) (in figure)                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
|                                                   | GRAND TOTAL FOR EVALUATION (2.1 + 2.2 + 2.3) (in words)                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
| 4.0                                               | CIF CONTENT (Indicating the list of items,QTY, currency, rate of custom duty along with the source of supply) considered in your prices. (Please attach separate sheet for details of items with their break-up of prices- Refer Annex - B).                                                                                                                                                                                                                                                                  |      |     |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
| NOTE :-                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
| a)                                                | The values indicated at sl no. 1.0 & 3.0 should match. In case of any discrepancy, the evaluation shall be done as per cl no 9.0 of GCC Rev-06 (Instructions to bidders).                                                                                                                                                                                                                                                                                                                                     |      |     |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
| b)                                                | Unit price quoted by bidder, as above, shall be binding for any quantity variation, which is at discretion of purchaser.                                                                                                                                                                                                                                                                                                                                                                                      |      |     |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
| c)                                                | Price of commissioning & erection spares and other accessories not listed above shall be included in price of equipment & shall be supplied with the equipment.                                                                                                                                                                                                                                                                                                                                               |      |     |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
| d)                                                | Indicate all taxes, duties etc. stating whether included/ excluded in above prices.                                                                                                                                                                                                                                                                                                                                                                                                                           |      |     |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
| e)                                                | Bidder shall furnish this price schedule in his price offer also.                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
| f)                                                | Bidder to quote the price in figures alongwith corresponding words in detailed price format.                                                                                                                                                                                                                                                                                                                                                                                                                  |      |     |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
| Particulars of bidder / authorised representative |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |
| Name                                              | श्री प्रकाश यादव / Shri Prakash Yadav<br>जन प्रवक्ता (वि.जी.ई.) / Dr. Manager (PG-M)<br>एन सी ई प्रोजेक्ट्स लिमिटेड / NSEI Projects Ltd.<br>पवर सेक्टर-परियोजना अभियंता प्रभाग<br>Power Sector-Project Engineering Management<br>एन सी ई बिल्डिंग, एच.आर.डी.आई. एंड ईएसआई कॉम्प्लेक्स<br>PPEI Bldg. H.R.D.I. & ESI Complex,<br>प्लॉट नं. 25, सेक्टर 16 ए, नोएडा - 201301<br>Plot No. 25, Sec. 16 A, Noida - 201301                                                                                            |      |     |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |                    |  |

## Annexure- A

PROJECT :- 1 X 660 MW BHUSAWAL TPS  
 PACKAGE :- CONDENSER ON LOAD TUBE CLEANING SYSTEM (COLTCS)  
 ENQUIRY No. :- PE/PG/BHU/E-6239/2019 Dtd. 24.06.2019

| Sl. No | DESCRIPTION OF EQUIPMENT / ITEM                                                                                                                             | Qty/Unit                                                                                                         | HSN/SAC CODE | UNIT PRICE (EX-WORKS) (Rs.)-DULY PACKED | TOTAL PRICE (EX-WORKS) (Rs.)-DULY PACKED | Freight % of total ex-works price | FREIGHT CHARGES @ OF EX WORKS PRICE (Rs.) | TYPE OF GST | RATE OF GST (%) | GST AMOUNT ON (TOTAL EX-WORKS + FREIGHT) (Rs.) | TOTAL F.O.R SITE PRICE (Rs.) | FOR FOREIGN BIDDER                                                          |                                                                              |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------|------------------------------------------|-----------------------------------|-------------------------------------------|-------------|-----------------|------------------------------------------------|------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|
|        |                                                                                                                                                             |                                                                                                                  |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              | UNIT COST ON C & F BASIS (COST & FREIGHT BASIS - AT INDIAN PORT) (CURRENCY) | TOTAL COST ON C & F BASIS (COST & FREIGHT BASIS - AT INDIAN PORT) (CURRENCY) |
| 1      | MANDATORY SPARES                                                                                                                                            |                                                                                                                  |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 1      | MECHANICAL ITEM- Sponge rubber balls for condenser on-load tube cleaning system                                                                             | 50000 Nos.                                                                                                       | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 2      | MECHANICAL ITEM- Ball circulating pumps (set consisting of shaft, rotor bearings, seals, gland package shafts sleeves for complete replacement in one pump) | 1 set                                                                                                            | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3      | C & I SPARES                                                                                                                                                |                                                                                                                  |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.0    | MEASURING INSTRUMENTS                                                                                                                                       |                                                                                                                  |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.1    | ELECTRONIC TRANSMITTERS                                                                                                                                     |                                                                                                                  | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.1.1  | Transmitters of all types, ranges and model no. (for the measurement of Pressure, differential pressure flow, level etc.)                                   | 10% or 2 no. of each type and model, whichever is more                                                           | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.1.2  | Electronic cards / PCB's for each type and model and model of transmitters                                                                                  | 10% or 5 nos. of each type, whichever is more                                                                    | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.2    | TEMPERATURE ELEMENTS                                                                                                                                        |                                                                                                                  |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.2.1  | RIDs of each type & length                                                                                                                                  | 10% or 2 nos. whichever is more                                                                                  | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.2.2  | Thermocouples of each type like K-type, R-type, metal etc and length                                                                                        | 10% or 2 nos. whichever is more                                                                                  | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.2.3  | Thermowell for T/C & RIDs                                                                                                                                   | 10% or 1 no. of each type, rating, length used in the system whichever is more                                   | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.2.4  | Process actuated switch devices including all types of pressure, differential pressure, flow, temperature, differential temperature, level switch devices   | 10% or 1 no. of each type and model whichever is more                                                            | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.3    | INDICATORS/RECORDERS                                                                                                                                        |                                                                                                                  |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.3.1  | Digital Indicators of each model, type & range (including relevant digital indicators of electrical system)                                                 | 10% or 2 nos. min. whichever is more                                                                             | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.3.2  | Vertical Indicators of each type & model                                                                                                                    | 5% or 1 no. of each model whichever is more                                                                      | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.3.3  | Recorders for each type and model                                                                                                                           | 5% or 1 no. whichever is more.                                                                                   | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.3.4  | Consumables for continuous recorders Charts Ink capsules                                                                                                    | 25 rolls per recorder/ 25 nos per recorder/ 20 nos. per recorder / Ink Pads / Pens.                              | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.3.5  | Consumables for multi point recorders                                                                                                                       |                                                                                                                  |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| (a)    | Charts                                                                                                                                                      | 5 nos. per recorder                                                                                              | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| (b)    | Ink pads                                                                                                                                                    | 5 nos. per recorder                                                                                              | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| (c)    | Print mechanism/ print head assembly                                                                                                                        | 10% or 5 nos. of each type whichever is more                                                                     | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.3.6  | Level transmitters (displacer type)                                                                                                                         |                                                                                                                  |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| (a)    | Electronic cards / PCB's of level transmitters                                                                                                              | 10% of total quantity used or 1 for each type/rating whichever is more                                           | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| (b)    | Level transmitters                                                                                                                                          | 10% of total quantity used or 1 for each type/rating whichever is more                                           | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| (c)    | Electronic water level indicator                                                                                                                            | 10% or 2 nos. min. whichever is more                                                                             | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.3.7  | PD type flow transmitters                                                                                                                                   | 10% of total quantity used or 1 for each type/rating whichever is more                                           | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.4    | SWITCHES                                                                                                                                                    |                                                                                                                  |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.4.1  | Switches (Pressure, DP, Level, Flow, Temperature etc)                                                                                                       | 10% of each type of total nos. used in the system or minimum 1 no. of each type, model & range whichever is more | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |

*Signature*

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 ENQUIRY No. :- PE/PG/BHU/E-6239/2019 Dtd. 24.06.2019

| Sl. No | DESCRIPTION OF EQUIPMENT / ITEM                                                           | Qty/Unit                                                                                                         | HSN/SAC CODE | FOR INDIENOUS BIDDER (INR)              |                                          |                                   |                                           |             |                 |                                                |                              | FOR FOREIGN BIDDER                                                          |                                                                              |
|--------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------|------------------------------------------|-----------------------------------|-------------------------------------------|-------------|-----------------|------------------------------------------------|------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|
|        |                                                                                           |                                                                                                                  |              | UNIT PRICE (EX-WORKS) (Rs.)-DULY PACKED | TOTAL PRICE (EX-WORKS) (Rs.)-DULY PACKED | Freight % of total ex-works price | FREIGHT CHARGES @ OF EX WORKS PRICE (Rs.) | TYPE OF GST | RATE OF GST (%) | GST AMOUNT ON (TOTAL EX-WORKS + FREIGHT) (Rs.) | TOTAL F.O.R SITE PRICE (Rs.) | UNIT COST ON C & F BASIS (COST & FREIGHT BASIS - AT INDIAN PORT) (CURRENCY) | TOTAL COST ON C & F BASIS (COST & FREIGHT BASIS - AT INDIAN PORT) (CURRENCY) |
| 3.5    | Rotameter                                                                                 | 10% of each type of total nos. used in the system or minimum 2 no. of each type, model & range whichever is more | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.6    | SOLENOID VALVE                                                                            | 10% of each type of total nos. used in the system or minimum 2 no. of each type, model & range whichever is more | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.6.1  | Assembly                                                                                  | 10% of total quantity used or minimum 2 no. of each type whichever is more                                       | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.6.2  | Coil                                                                                      | 10% of total quantity used or 5 no. whichever is more                                                            | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.7    | E/P Converter                                                                             | 10% of each type of total nos. used in the system or minimum 2 no. of each type, model & range whichever is more | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.8    | SPECIAL INSTRUMENTS                                                                       |                                                                                                                  |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.8.1  | Nucleonic/non-nucleonic density meter, solid flow meter etc.                              | 1 no. and spare parts as per manufacturer                                                                        | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 3.9    | Electrical Transducers                                                                    | 10% of total quantity used or minimum 1 no. of each type and range whichever is more                             | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 4.0    | POWER SUPPLY SYSTEM (24 V DC POWER SUPPLY SYSTEM)                                         |                                                                                                                  |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 4.1    | Silicon controlled thyristors, diodes power transistors                                   | 100%                                                                                                             | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 5.0    | PROCESS CONNECTION PIPING                                                                 |                                                                                                                  |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
|        | (for impulse piping /tubing, sampling piping/ tubing and air supply piping as applicable) |                                                                                                                  | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 5.1    | Valves of all types and models                                                            | 10% or 2 no. of each type, class, size and model whichever is more.                                              | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 5.2    | 2 way, 3way, 5way valve manifolds                                                         | 10% or 2 no. of each type, class size and model whichever is more.                                               | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 5.3    | Fittings                                                                                  | 10 nos. of each type                                                                                             | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 5.4    | Purge meters                                                                              | 10 % of each model or 2 Nos. whichever is more                                                                   | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 5.5    | Filter regulators                                                                         | 10 % of each model or 2 Nos. whichever is more                                                                   | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 5.6    | Impulse pipe & tubing of all type                                                         | 20 mtrs each type & size                                                                                         | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 5.7    | Impulse line root valve                                                                   | 10% of total quantity used or 4 no. whichever is more for each type and rating of each size                      | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 5.8    | SS tube                                                                                   | 40 mtrs of each type/size                                                                                        | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 5.9    | Fitting for SS tube                                                                       | 40 nos. of each type/size                                                                                        | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 6.0    | INSTRUMENTATION CABLE, INTERNAL WIRING AND ELECTRICAL FIELD                               |                                                                                                                  |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 6.1    | Pre fabricated cable of each type                                                         | 10% of installed quantity                                                                                        | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 6.2    | Pre fabricated cable connector                                                            | 10% or 1 no. of each type and model whichever is more.                                                           | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 6.3    | Other cables                                                                              | 10% of each type, pair and size of actual installed quantity                                                     | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 7.0    | ELECTRICAL ACTUATORS                                                                      |                                                                                                                  |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 7.1    | Actuators                                                                                 | 10% or 1 no. of each type, model and rating, whichever is more.                                                  | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 7.2    | Power unit for modulating actuator                                                        | 10% or 2 nos. of each type, whichever is more.                                                                   | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 7.3    | DC-DC unit/power pack units                                                               | 10% or 2 nos. of each type, whichever is more.                                                                   | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 7.4    | Electronic cards                                                                          | 10% or 5 nos. of each type, whichever is more                                                                    | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |

*Signature*

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 ENQUIRY No. :- PE/PG/BHU/E-6239/2019 Dtd. 24.06.2019

|  | DESCRIPTION OF EQUIPMENT / ITEM<br><br>Mandatory Spares to be supplied under this specification.         | Qty/Unit                                                                                                                                                                                                                                                | HSN/SAC CODE | FOR INDIENOUS BIDDER (INR)              |                                          |                                   |                                           |             |                 |                                                | FOR FOREIGN BIDDER           |                                                                             |                                                                              |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------|------------------------------------------|-----------------------------------|-------------------------------------------|-------------|-----------------|------------------------------------------------|------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|
|                                                                                   |                                                                                                          |                                                                                                                                                                                                                                                         |              | UNIT PRICE (EX-WORKS) (Rs.)-DULY PACKED | TOTAL PRICE (EX-WORKS) (Rs.)-DULY PACKED | Freight % of total ex-works price | FREIGHT CHARGES @ OF EX WORKS PRICE (Rs.) | TYPE OF GST | RATE OF GST (%) | GST AMOUNT ON (TOTAL EX-WORKS + FREIGHT) (Rs.) | TOTAL F.O.R SITE PRICE (Rs.) | UNIT COST ON C & F BASIS (COST & FREIGHT BASIS - AT INDIAN PORT) (CURRENCY) | TOTAL COST ON C & F BASIS (COST & FREIGHT BASIS - AT INDIAN PORT) (CURRENCY) |
| SL No                                                                             | 1                                                                                                        | 2                                                                                                                                                                                                                                                       | 3            | 4                                       | 5                                        | 6                                 | 7                                         | 8           | 9               | 10                                             | 11                           | 12                                                                          | 13                                                                           |
| 7.5                                                                               | Brake assembly                                                                                           | 10% or 2 nos. of each type, whichever is more.                                                                                                                                                                                                          | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 7.6                                                                               | Brake coils                                                                                              | 10% or 2 nos. of each type whichever is more.                                                                                                                                                                                                           | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 7.7                                                                               | Position feed back transmitters                                                                          | 10% or 2 nos. of each is more.                                                                                                                                                                                                                          | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 7.8                                                                               | Control unit                                                                                             | 10% or 2 nos. of each type whichever is more                                                                                                                                                                                                            | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 7.9                                                                               | Torque and limit switch assembly of each unit                                                            | 10% or 2 nos. of each type, whichever is more.                                                                                                                                                                                                          | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 7.10                                                                              | O-ring                                                                                                   | 1 set of each size                                                                                                                                                                                                                                      | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 7.11                                                                              | Motor                                                                                                    | 1 no. of each type & rating                                                                                                                                                                                                                             | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 7.12                                                                              | Auxiliary contact                                                                                        | 10% of total quantity used or 2 nos. whichever is more for each type and rating of each size                                                                                                                                                            | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 7.13                                                                              | Seal kit                                                                                                 | 1 set of each type & size                                                                                                                                                                                                                               | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 8.0                                                                               | Micro PLC system (i.e. integrated CPU & I/O system, where above mentioned components are not applicable) | One Complete Set                                                                                                                                                                                                                                        | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 9.0                                                                               | CONTROL PANEL AND LOCAL REMOTE CONTROL DESK (AS APPLICABLE)                                              |                                                                                                                                                                                                                                                         |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 9.1                                                                               | Recorder                                                                                                 | 1(one) No. each type and model                                                                                                                                                                                                                          | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 9.2                                                                               | Bar graph indicator                                                                                      | 10% of total quantity used in the system or minimum 1 (one) no. whichever is more for each type and model.                                                                                                                                              | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 9.3                                                                               | Digital indicator                                                                                        | 10% of total quantity used in the system or minimum 1 (one) no. whichever is more for each type and model.                                                                                                                                              | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 9.4                                                                               | Mosaic/Conventional Type Push button Station                                                             | 10% of total quantity used in the system or minimum 2(two) nos. whichever is more for each type and model.                                                                                                                                              | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 9.5                                                                               | Mosaic Type Push button Station with LED Indic                                                           | 10% of total quantity used in the system or minimum 2(two) nos. whichever is more for each type and model.                                                                                                                                              | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 9.6                                                                               | Mosaic Type LED Indication Station                                                                       | 10% of total quantity used in the system or minimum 2(two) nos. whichever is more for each type and model.                                                                                                                                              | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 9.7                                                                               | Simaphore Indicator                                                                                      | 2(two)Nos. each type                                                                                                                                                                                                                                    | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 9.8                                                                               | ANNUNCIATION SYSTEM (For offsite / Auxiliary Plants)                                                     |                                                                                                                                                                                                                                                         |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 9.8.1                                                                             | Each type of PCB (for non-PLC driven system)                                                             | 1(one) No. each                                                                                                                                                                                                                                         | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 9.8.2                                                                             | Lamp Box with Facia & Lamps (LED type)                                                                   | 10% with minimum 2 nos.                                                                                                                                                                                                                                 | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 9.8.3                                                                             | Hooter                                                                                                   | 1(one) No.                                                                                                                                                                                                                                              | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 10                                                                                | MANDATORY SPARES NOT COVERED ABOVE                                                                       | Bidder to supply 10% electronic modules/ cards or any other electronic components required for system such as annunciation system for offsite/ auxiliary plant, online condensate tube cleaning system, ambient air monitoring system, plant simulator. | 8479         |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |
| 11                                                                                | GRAND TOTAL                                                                                              |                                                                                                                                                                                                                                                         |              |                                         |                                          |                                   |                                           |             |                 |                                                |                              |                                                                             |                                                                              |

*Signature*

## ANNEXURE - B

**PROJECT :- 1 X 660 MW BHUSAWAL TPS**

**PACKAGE :- CONDENSER ON LOAD TUBE CLEANING SYSTEM (COLTCS)**

**ENQUIRY No. :- PE/PG/BHU/E-6239/2019 Dtd. 24.06.2019**

|                                                                                   |                                                                                                      |      |          |          |                     |                  |                   |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------|----------|----------|---------------------|------------------|-------------------|
|  | Discription                                                                                          | UNIT | QUANTITY | CURRENCY | RATE OF CUSTOM DUTY | SOURCE OF SUPPLY | TOTAL CIF CONTENT |
|                                                                                   | LIST OF CIF CONTENTS FOR CONDENSER ON LOAD TUBE CLEANING SYSTEM (COLTCS) FOR 1 X 660 MW BHUSAWAL TPS |      |          |          |                     |                  |                   |
| SL NO.                                                                            | 1                                                                                                    | 2    | 3        | 4        | 5                   | 6                | 7                 |
| 1                                                                                 |                                                                                                      |      |          |          |                     |                  |                   |
| 2                                                                                 |                                                                                                      |      |          |          |                     |                  |                   |
| 3                                                                                 |                                                                                                      |      |          |          |                     |                  |                   |
| 4                                                                                 |                                                                                                      |      |          |          |                     |                  |                   |
| 5                                                                                 |                                                                                                      |      |          |          |                     |                  |                   |
| 6                                                                                 |                                                                                                      |      |          |          |                     |                  |                   |
| 7                                                                                 |                                                                                                      |      |          |          |                     |                  |                   |
| 8                                                                                 |                                                                                                      |      |          |          |                     |                  |                   |
| 9                                                                                 |                                                                                                      |      |          |          |                     |                  |                   |
| 10                                                                                |                                                                                                      |      |          |          |                     |                  |                   |
| 11                                                                                |                                                                                                      |      |          |          |                     |                  |                   |
| 12                                                                                |                                                                                                      |      |          |          |                     |                  |                   |
| 13                                                                                |                                                                                                      |      |          |          |                     |                  |                   |
| 14                                                                                |                                                                                                      |      |          |          |                     |                  |                   |
|                                                                                   |                                                                                                      |      |          |          |                     |                  |                   |
| Bidder shall furnish this price schedule in his price offer only                  |                                                                                                      |      |          |          |                     |                  |                   |
| Particulars of bidder / authorised representative                                 |                                                                                                      |      |          |          |                     |                  |                   |
| Name                                                                              | Designation                                                                                          |      |          |          | Signature           | Date             | Company seal      |

Smeyers-Verbeke