

Ref. Enquiry No.: PE/PG/BHU/E-6456/2020
Dated: 15.06.2020

DUE DATE
25 JUNE 2020
By 02.00 P.M

Subject :- N.I.T- OPEN TENDER ENQUIRY FOR CONDENSER ON LOAD TUBE CLEANING SYSTEM as per Technical Specification No PE-TS-415-165-N002 (Rev-01) for 1 x 660 MW MAHAGENCO BHUSAWAL TPS.

We are pleased to invite your offers in two parts strictly as per Clause-2.0 of GCC Rev- 07 of the enclosed instructions to bidders via E-procurement (<https://bhel.abcprocure.com>) under mentioned equipment's /system.

BHEL invites offers from reputed Vendors (refer requirements given in this enquiry letter uploaded on E-Procurement Portal (<https://bhel.abcprocure.com>) under Tender Reference 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 PE-TS- 415-165-N002 (REV. 01) and as necessary including mandatory spares, commissioning spares of COLTCS including commission balls and special tools & tackles (as required) for erection & maintenance as per the requirements specified in this specification and any other services, etc and delivery to site for **1 X 660 MW BHUSAWAL TPS** as specified/ defined as per tender documents & Technical specification, amendment & agreements till placement of order.

Detailed scope of work & details shall be as per tender documents and other details hosted on above websites.

Item Description – CONDENSER ON LOAD TUBE CLEANING SYSTEM (COLTCS)			
Sl. NO.	PROJECT	TECHNICAL SPECIFICATION No.	Delivery completion schedule
1	1 X 660 MW BHUSAWAL TPS	PE-TS-415-165-N002 (REV. 01)	As per Annexure – I of NIT

Your best quotation/offer for the above requirement, in line with our terms and conditions, should be uploaded in e-procurement Portal. It shall be the responsibility of the bidder to ensure that the tender is uploaded on or before the due date and time. Part-I bids shall be opened at **03.00 P.M** on due date & time through e-procurement Portal.

Note: 1. Detailed tender documents have been uploaded at the following websites.

<https://eprocure.gov.in/cppp/>; www.bhelpem.com; www.bhel.com
<https://bhel.abcprocure.com/EPROC/>

Bidders are requested to upload their best offer on <https://bhel.abcprocure.com> only.

1. Terms and Conditions: -.

1.1 Bidders shall upload their offers meeting the requirements of the following tender documents (enclosed) and other Terms and Conditions included in this Enquiry Letter:

- **Part-I: Techno-Commercial Bid:** Comprising of technical offer, Annexure-I of GCC Rev 07, Commercial terms and conditions, unpriced copy of price bid and Annexure-II of GCC Rev 07
- **Part-II: Price Bid:** Containing prices, **cost of withdrawal of deviation (As per Annexure-II of GCC Rev 07)**, to be uploaded, strictly, as per price schedule of BHEL for complete scope of Tender enquiry.

2. Bidders shall submit their offers meeting the requirements of the following tender documents indicated in GCC (Rev. 07) and other Terms and Conditions included in this Enquiry Letter. Weblink of GCC Rev 07 shall be as below, bidders may download the GCC Rev 07 from the given weblink and go through the same before quoting: -
<https://www.bhelpem.com/Documents/GCC/GCCRev07.pdf>

3. Bidders to note that following form the part of tender documents:

- General Conditions of Contract (GCC) Rev 07 comprising of: Instructions to Bidders and General Commercial Terms & Conditions
- Technical Specifications.
- Technical PQR
- Price format & Special Conditions of Contract (SCC Rev. 01).
- Enquiry terms & conditions.
- Annexure I to III and H.

4. Any hidden conditions/deviations mentioned elsewhere in offer and standard pre-printed terms & conditions of the tenderers shall not be considered valid.

Ref. Enquiry No.: PE/PG/BHU/E-6456/2020
Dated: 15.06.2020

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5. Tenders shall be submitted strictly in accordance with the requirements of the above mentioned tender documents. Deviations (Technical as well as Commercial), if any, shall be listed out separately in Annexure-II of GCC Rev-07 along with reasons for taking such deviations. Any deviations (Technical as well as Commercial) not mentioned in the Annexure-II shall not be considered. Bidders to note all the points mentioned in "Notes" of Annexure-II to GCC Rev.07.
6. Bidder has to submit "NO DEVIATION CERTIFICATE FOR COMMERCIAL TERMS AND CONDITIONS as per General Conditions of Contracts (GCC, Rev.07), Special Conditions of Contract and Notice Inviting Tender (NIT)" **in case of no deviations.**
7. Standard pre-printed terms & conditions of the tenderers shall not be considered valid.
8. If any bidder has mentioned the term Not Applicable / not required / not quoted in BHEL price format, the same to be substantiated by the bidder. If such item is required to be supplied for system completion in future, same will be supplied free of cost by Vendor.
9. In case there is no change in the technical scope and / or specification and / or commercial terms and conditions, the bidder/s shall not be allowed to change his / their price bids after the due date within the validity period.
10. Any other taxes & Duties applicable on the date of bid but not quoted by the bidders shall be to bidder account.
11. Purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject any/all tender(s) in part or full without assigning any reason whatsoever.
12. Tenderers must enclose the Quality Plan in the prescribed format, for approval. Equipment will be despatched only after Purchaser's/Owner's inspection at the hold points specified in the approved Quality Plan and issue of Material Despatch Clearance Certificate (MDCC).
13. Offers should be submitted separately in two parts **online through e-procurement system only**, however, all correspondence thereof, shall be addressed to the undersigned by name & designation and sent at the following address:

RAJEEV RANAJN, Dy. Engr, PG-III M/s. Bharat Heavy Electricals Ltd., Project Engineering Management, Power Project Engineering Institute, HRD & ESI Complex, Plot No 25, Sector-16 A, Noida-201301, U.P., INDIA E-MAIL: ranjanrajeev@bhel.in, Ph. No. +91-120-4368838; Mob: +919968879839	SHRI PRAKASH YADAV, Dy. Mgr, PG-III/ M/s. Bharat Heavy Electricals Ltd., Project Engineering Management, Power Project Engineering Institute, HRD & ESI Complex, Plot No 25, Sector-16 A, Noida-201301, U.P., INDIA E-MAIL: spyadav@bhel.in, Ph. No. +91-120-4213621, Mob: +919911775641
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14. Bidder to note that this is a Conditional Open Tender enquiry and the price bid (Part-II) opening/RA participation shall be subject to following conditions: -
 - a. Meeting the technical PQR
 - b. Techno-commercial recommendation by BHEL
 - c. Approval of bidder by End Customer (MAHAGENCO). - Approval shall be taken up by BHEL with customer based on the credentials / reference list. Hence, bidders are requested to submit the credentials as per MAHAGENCO sub vendor format for approval (Proforma of Vendor Approval) with supported document.
15. For registration in BHEL PEM – Online registration portal is operational; Non-registered Vendors who wish to apply for registration in BHEL-PEM can apply through Online Registration Portal available at www.bhelpem.com > vendor section > Online Supplier Registration. All credentials and/or documents duly signed and stamped related to registration has to be uploaded on the website and submit the application for registration. One set of hard copy of the filled-up SRF downloaded from Online Registration Portal duly signed and stamped has to be submitted. Above shall be part of NIT.
16. Payment Terms: - Payment terms shall be as per General Commercial Terms & Conditions of GCC (Rev. 07).

Ref. Enquiry No.: PE/PG/BHU/E-6456/2020
Dated: 15.06.2020

DUE DATE
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17. Liquidated Damages: -
 - a) For supply Portion: - As per clause no. 16 of General Commercial Terms and conditions of GCC Rev 07.
 - b) For Site Activities : - as per Annexure-I (Delivery completion cum drawings/documents submission re-submission schedule)
18. After placement of purchase order, detail BBU will be prepared by Vendor for each applicable items along with cost. This BBU will be vetted by PEM-MSE. Same practice was followed for earlier orders of COLTCS package also
19. All Indian Bidders have to quote freight charges in percentage of their quoted Total Ex-works prices.
20. Percentage of freight quoted by techno- commercial accepted bidders in subject tender shall be used to calculate freight factor at the time of Reverse Auction/Price Bid opening for evaluation purpose. (Bids with freight quoted as NIL/Inclusive/NA shall be excluded in calculation of average freight)
21. Overall (%) quantity variation on overall package value due to changes in the scope shall be +/-5% which will prevail over the clause no. 6.0 indicated in the GCC rev 07.
22. Evaluation will be done on L1 (Total cost to BHEL excluding GST) basis.
23. **Pre-Qualifying Requirement:**

Bidders are requested to furnish the details as per "TECHNICAL PRE-QUALIFYING REQUIREMENTS" (enclosed with the enquiry document). Along with the offer, bidders to furnish all legible & valid documents required as per Technical PQR. The same shall be properly co-relating with respective clause of PQR. Bids of only those bidders, who meet the Technical pre-qualifying requirements, shall be evaluated.

Bidders to ensure that Third party/customer issued certificates being submitted as proof of PQR qualification should have verifiable details of document/certificate issuing authority such as name & designation of Issuing Authority and its organisation contact number and e-mail Id etc. In case the same found not available, Purchaser has right to reject such document from evaluation.
24. "This item/Package/System falls under the list of items defined in Para 3 of Ministry of Finance guideline dated 20.09.2016 (procurement of items related to public safety, health, critical security, operations and equipment etc) & hence criteria of prior experience/ turnover shall be same for all the bidders including start-up/ MSME."
25. CIF content: - Available for this package. vendor to quote accordingly.
26. PVC is not applicable for this package.
27. Evaluation Conditions: - BHEL shall be finalizing this tender with **price bid opening** and will not be conducting RA. Vendor to quote suitably."
- "Vendors to note that above RA clause will supersede clause no 13 of "Instruction to Bidders" of GCC Rev 07"
28. Bid should be free from correction, overwriting, using corrective fluid, etc. Any interlineation, cutting, erasure, or overwriting shall be valid only if they are attested under full signature (s) under of person (s) signing the bid else bid shall be liable for rejection". **Price should be mentioned in figure & words also.**
29. If any bidder uploads price bid in the unpriced section (techno-commercial attachment page) of the tender in e-procurement, in that case bidder(s) shall only be responsible for such mistake and any consequences thereof. Hence all bidders are requested to be more careful at the time of uploading the Unpriced and Price Bid for Part-I and Part-II respectively to avoid mismatch.

Ref. Enquiry No.: PE/PG/BHU/E-6456/2020
Dated: 15.06.2020

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30. All corrigenda, addenda, amendments, time extensions, clarifications etc. to the tender will be hosted on BHEL websites only (www.bhelpem.com, www.bhel.com & <https://bhel.abcpocure.com>) under subject tender reference. Bidders may go through the Sellers' manual & Help documents provided on E-Procurement Portal website & obtain required Digital Signature Certificate for participating in the subject Tender. For Bidders' convenience, the Helpdesk Nos. of E-Procurement Portal are also attached along with this NIT (File name – Annexure H Instruction regarding E-procurement).
31. All the tender documents shall automatically become a part of the Order/Contract after its finalization.
32. In case of joint bidding, Bidders shall be required to furnish scope matrix which should be clearly defined between foreign bidder and their Indian representative along with the offer for the Main Supply and Erection & Commissioning.
33. For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017, 28.05.2018, 29.05.2019 & Order no. P-45021/2/2017-PP(BE-II) dtd. 04.06.2020 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of the NIT but before finalization of contract/ PO/WO against the NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and / or local content in respect of this procurement, same shall be applicable. Vendors are requested to go through the above mentioned orders and confirm the following:"
- The local supplier at the time of tender, bidding or solicitation shall be required to provide self-certification (in prescribed format) that the item offered meets the minimum local content as per above mentioned orders and shall give details of the location(s) at which the local value addition is made as per enclosed Annexure – III of NIT.
- Further, for implementation of make in India Guidelines & circulars, please note the following: - Subject package is not divisible in nature, purchase preference shall be 20% and prescribed minimum local content is 100%.
34. MSME/Start up Vendors to submit applicable documents along with their offer for availing the benefits as per GOI guidelines. Further BHEL-PEM is already registered with RXIL(TReDS) Platform. Bidders are requested to get registered with RXIL(TReDS) Platform to avail the facility as per GOI guidelines.
35. The offers of the bidders who are on the banned list and also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website <http://www.bhel.com>.
36. Digital Signature: Bidders participating in subject tender will necessarily have to buy class III DSCs (Digital Signature Certificate) issued by the certifying authorities in India. Basic procedure /checklist is uploaded on www.bhel.com for participating in subject tender enquires through e procurement.
37. All the terms & condition of SCC (Rev. 01) of Project, NIT, GCC (Rev-07) and Technical Specification shall be applicable for subject package
38. Detailed **offers are to be uploaded including the following along with the Price schedule as per BHEL format enclosed with NIT:-**
- Acceptance of GCC Rev-07.
 - Acceptance of Special Conditions of Contract (SCC Rev. 01) for the project.
 - TECHNICAL Pre-Qualifying Requirement (PQR)
 - Technical & Commercial Deviations, if any alongwith Cost of withdrawal. – To be filled in DEVIATION SHEET (COST OF WITHDRAWAL) format provided in e-procurement portal in bidding form only.
 - Along with your offer, please submit a copy of this letter duly signed & stamped on each page as token of acceptance of terms & instructions conveyed.
 - Un-Priced price format duly filled in 'Quoted' or 'Q' in each column/row.- To be filled in e-procurement portal in bidding form only.
 - Filled Format of Certification regarding Local content (annexure –III)

Ref. Enquiry No.: PE/PG/BHU/E-6456/2020
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- ❖ Please contact to BHEL (via mail or phone) for any clarification (technical or commercial) at least one week before the due date (Techno-Commercial bid opening).
- ❖ Please note all correspondence from BHEL-PEM before part – I opening, shall also be part of NIT.

Thanking you,
Yours faithfully,

For and on behalf of BHEL-PEM

SHRI PRAKASH
(DY. MANAGER/PG-III/BHEL-PEM)

Enclosures:

- a) Enquiry Terms & Conditions
- b) Technical Specifications no. PE-TS-415-165-N002 (REV. 1).
- c) SCC (Rev. 01)
- d) TECHNICAL Pre-Qualifying Requirement (PQR)
- e) Proforma of Vendor Approval.
- f) Delivery completion cum Drawings/documents submission Schedule (Annexure –I).
- g) BOQ (Main Supply + Mandatory Spares + SITE ACTIVITIES)- Annexure –II.
- h) Format of Certification reg. Local content (annexure –III).
- i) BHEL PEM GCC (Rev. 07) can be referred on link: <https://www.bhelpem.com/gcc.aspx>

Annexure - I (Delivery cum Drawing/ Document submission / re- submission schedule)

Enquiry no. :- PE/PG/BHU/E-6456/2020 dtd. 15.06.2020

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

Project :- 1 x 660 MW MAHAGENCO Bhusawal TPP

BHEL Drawing No	Drawing Title	Primary/Secondary	BHEL Inputs	Drg Sch for Vendors	Standard Delivery Terms for Supply Portion	Scope of Services, (if any, as per Indent) and corresponding schedule for rendering the services
PE-V2-XXX-165-N001	P&ID OF COLTCS SYSTEM	Primary		R-0 within 21 days (for all except Installation plan, for Installation Plan 30 Days) from PO & subsequent revisions incorporating all the BHEL comments within 10 days of comments received from BHEL. BHEL shall furnish comments / approval on each submission within 18 days from receipt.	Main Supply :- Within Five (05) months for Non Sea water Applications & Seven (07) months for Sea water Applications, from date of CAT-1 approval of Primary drawing/documents, subjected to drawing/document submission/re-submission schedule as stipulated, in case of any delay in submission/re-submission of Primary drawing/documents, then same shall be reduced from the given delivery period. Delay in BHEL's comments/approval beyond 18 days shall also be considered for delay analysis.	Commissioning
PE-V2-XXX-165-N002	TECHNICAL DATA SHEET-COLTCS	Primary				Trial run
PE-V2-XXX-165-N003	INSTALLATION PLAN- COLTCS	Primary				PG Test
PE-V2-XXX-165-N004	GENERAL ARRANGEMENT OF BALL SEPERATOR	Primary				Vendor to depute its service engineer for respective site activity within 15 days from BHEL's intimation (for deputing service engineer) for such site activity. For delay in deputing service engineer, LD on site activities portion shall be applicable @ ½% of the total site activities portion contract value (excluding element of taxes) per week or part thereof, with applicable GST. However, total LD (supply + site activities) shall be limited to 10% of cumulative total contract value excluding taxes and freight (supply + site activities).
PE-V2-XXX-165-N005	DETAILS OF BR SKID,BALL INJECTION PIPE & FIXING DETAILS	Primary				
PE-V2-XXX-165-N006	C&I Part-I,PANEL-TDS, I/O LIST, CABLE SCH AND CONTROL PHILOSPHY FOR COLTCS	Primary				
PE-V2-XXX-165-N008	QP-COLTCS	Primary				
PE-V2-XXX-165-N007	C&I Part-II, GA & WIRING DIAGRAM OF PANEL- COLTCS	Primary		R-0 within 15 days from approval of C&I Part-I document & subsequent revisions incorporating all the BHEL comments within 10 days of comments received from BHEL. BHEL shall furnish comments / approval on each submission within 18 days from receipt.	Commissioning/abrasive/Sponge balls to be supplied within 2 months from BHEL clearance.	
PE-V2-XXX-165-N009	O& M MANUAL -COLTCS	Secondary		within 30 days of issuance of MDCC.	Mandatory Spares :- Delivery shall be 04 months from the date of manufacturing clearance. Separate dispatch/ manufacturing clearance will be issued for mandatory spares	
	PG TEST PROCEDURE - COLTCS	Secondary		R-0 within 30 days after R-0 submission of last primary document and revised submission within 10 days of receiving comments from BHEL'.		

Notes:-

- The end period specified is for completion of the deliveries. Deliveries to start progressively so as to meet the completion schedule.
- The delivery conditions specified are for contractual LD purposes, however BHEL may ask for early deliveries without any compensation thereof.
- Non-applicable drawings shall be decided during execution of the package.
- Wherever schedule of drawings/documents submission / re-submission is stipulated in the Technical Specifications, same shall be superseded by delivery specified in NIT (as above)

PROJECT:- 1 X 660 MW BHUSAWAL TPS
PACKAGE:- CONDENSER ON LOAD TUBE CLEANING SYSTEM (COLTCS)
ENQUIRY No. :- PE/PG/BHU/E-6456/2020 Dtd. 15.06.2020

DETAILS IF ITEM - BOQ

Sl. No.	DESCRIPTION OF EQUIPMENT / ITEM FOR COLTCS	DESCRIPTION 1	UNIT	QTY	HSN/SAC CODE
	1	2	3	4	5
	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 PE-TS- 415-165-N002 (REV. 01) and as necessary including mandatory spares, commissioning spares of COLTCS including commission balls and special tools & tackles (as required) for erection & maintenance.				
(A)	Main Supply including E&C spares				
1	Price for design, manufacture, inspection and testing, packing and delivery of COLTCS complete with all accessories except for Sl. No.2 & 3 as below	Main Supply	NOS	2	8479
(B)	Site Activities				
2	Lump sum price for Site Activities -Installation checks, Commissioning	Site Activity - Bidder to quote freight for site activities as zero	NOS	2	99833
3	Lump sum price for Site Activities -Trial Run & PG test	Site Activity - Bidder to quote freight for site activities as zero	NOS	2	99833
4	Cost of site visits for Installation Checks and commissioning as per technical specification (included in sl. no. 2 above).	Site Activity - Bidder to quote only in Unit price column, in all other columns, bidder to mention zero. This price will not be considered for evaluation (refer note no. 6 also)	Visit	2	99833
5	Cost of Number of days at site for Installation Checks and commissioning as per technical specification (included in sl. no. 2.).	Site Activity - Bidder to quote only in Unit price column, in all other columns, bidder to mention zero. This price will not be considered for evaluation (refer note no. 6 also)	Days	6	99833
6	Cost of site visits for trial run and PG test as per technical specification (included in sl. no. 3 above).	Site Activity - Bidder to quote only in Unit price column, in all other columns, bidder to mention zero. This price will not be considered for evaluation (refer note no. 6 also)	Visit	2	99833
7	Cost of Number of days at site for trial run and PG test as per technical specification (included in sl. no. 3 above).	Site Activity - Bidder to quote only in Unit price column, in all other columns, bidder to mention zero. This price will not be considered for evaluation (refer note no. 6 also)	Days	40	99833
(C)	Lump sum price of Mandatory Spares for the total scope defined as per technical specification PE-TS- 415-165-N002 (REV. 01). Mandatory Spares shall be as per Data Sheet-A.				
8	Sponge rubber balls for condenser on-load tube cleaning system	Mandatory Spares - MECHANICAL ITEM	Nos.	50000	8479
9	Ball circulating pumps (set consisting of shaft, rotor bearings, seals, gland package shafts sleeves for complete replacement in one pump)	Mandatory Spares - MECHANICAL ITEM	set	1	8479
10	Transmitters of all types, ranges and model no. (for the measurement of Pressure, differential pressure flow, level etc.)	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - ELECTRONIC TRANSMITTERS	refer "QTY" column	10% or 2 no. of each type and model, whichever is more	8479
11	Electronic cards / PCB's for each type and model and model of transmitters	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - ELECTRONIC TRANSMITTERS	refer "QTY" column	10% or 5 nos. of each type, whichever is more	8479
12	RIDs of each type & length	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - TEMPERATURE ELEMENTS	refer "QTY" column	10% or 2 nos. whichever is more	8479
13	Thermocouples of each type like K-type, R-type, metal etc and length	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - TEMPERATURE ELEMENTS	refer "QTY" column	10% or 2 nos. whichever is more	8479
14	Thermowell for T/C & RIDs	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - TEMPERATURE ELEMENTS	refer "QTY" column	10% or 1 no. of each type, rating, length used in the system whichever is more	8479
15	Process actuated switch devices Including all types of pressure, differential pressure, flow, temperature, differential temperature, level switch devices	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - TEMPERATURE ELEMENTS	refer "QTY" column	10% or 1 no. of each type and model whichever is more	8479
16	Digital Indicators of each model, type & range (including relevant digital indicators of electrical system)	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - INDICATORS/RECORDERS	refer "QTY" column	10% or 2 nos. min. whichever is more	8479
17	Vertical Indicators of each type & model	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - INDICATORS/RECORDERS	refer "QTY" column	5% or 1 no. of each model whichever is more	8479
18	Recorders for each type and model	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - INDICATORS/RECORDERS	refer "QTY" column	5% or 1 no. whichever is more.	8479
19	Consumables for continuous recorders Charts Ink capsules	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - INDICATORS/RECORDERS	refer "QTY" column	25 rolls per recorder/ 25 nos per recorder/ 20 nos. per recorder / Ink Pads / Pens.	8479
20	Consumables for multi point recorders -Charts	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - INDICATORS/RECORDERS	refer "QTY" column	5 nos. per recorder	8479
21	Consumables for multi point recorders - Ink pads	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - INDICATORS/RECORDERS	refer "QTY" column	5 nos. per recorder	8479
22	Consumables for multi point recorders - Print mechanism/ print head assembly	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - INDICATORS/RECORDERS	refer "QTY" column	10% or 5 nos. of each type whichever is more	8479
23	Level transmitters (displacer type) - Electronic cards / PCB's of level transmitters	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - INDICATORS/RECORDERS	refer "QTY" column	10% of total quantity used or 1 for each type/rating whichever is more	8479

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PACKAGE:- CONDENSER ON LOAD TUBE CLEANING SYSTEM (COLTCS)
ENQUIRY No. :- PE/PG/BHU/E-6456/2020 Dtd. 15.06.2020

DETAILS IF ITEM - BOQ

SI. No.	DESCRIPTION OF EQUIPMENT / ITEM FOR COLTCS	DESCRIPTION 1	UNIT	QTY	HSN/SAC CODE
	1	2	3	4	5
24	Level transmitters (displacer type) -Level transmitters	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - INDICATORS/RECORDERS	refer "QTY" column	10% of total quantity used or 1 for each type/rating whichever is more	8479
25	Level transmitters (displacer type) - Electronic water level indicator	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - INDICATORS/RECORDERS	refer "QTY" column	10% or 2 nos. min. whichever is more	8479
26	PD type flow transmitters	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - INDICATORS/RECORDERS	refer "QTY" column	10% of total quantity used or 1 for each type/rating whichever is more	8479
27	Switches (Pressure, DP, Level Row, Temperature etc)	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS - SWITCHES	refer "QTY" column	10% of each type of total nos. used in the system or minimum 1 no. of each type, model & range whichever is more	8479
28	Rotameter	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS	refer "QTY" column	10% of each type of total nos. used in the system or minimum 2 no. of each type, model & range whichever is more	8479
29	<u>SOLENOID VALVE</u>	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS	refer "QTY" column	10% of each type of total nos. used in the system or minimum 2 no. of each type, model & range whichever is more	8479
30	Assembly	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS	refer "QTY" column	10% of total quantity used or minimum 2 no. of each type whichever is more	8479
31	Coil	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS	refer "QTY" column	10% of total quantity used or 5 no. whichever is more	8479
32	E/P Converter	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS	refer "QTY" column	10% of each type of total nos. used in the system or minimum 2 no. of each type, model & range whichever is more	8479
33	Nucleonic/non-nucleonic density meter, solid flow meter etc.	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS -SPECIAL INSTRUMENTS	refer "QTY" column	1 no. and spare parts as per manufacturer	8479
34	Electrical Transducers	Mandatory Spares - C & I SPARES-MEASURING INSTRUMENTS -SPECIAL INSTRUMENTS	refer "QTY" column	10% of total quantity used or minimum 1 no. of each type and range whichever is more	8479
35	Silicon controlled thyristors, diodes power transistors	Mandatory Spares - C & I SPARES-POWER SUPPLY SYSTEM (24 V DC POWER SUPPLY SYSTEM)	refer "QTY" column	100%	8479
36	Valves of all types and models	Mandatory Spares - C & I SPARES-PROCESS CONNECTION PIPING - (for impulse plpmg /tubing, sampling piping/ tubing and air supply piping as applicable)	refer "QTY" column	10% or 2 no. of each type, class, size and model whichever is more.	8479
37	2 way, 3way, 5way valve manifolds	Mandatory Spares - C & I SPARES-PROCESS CONNECTION PIPING - (for impulse plpmg /tubing, sampling piping/ tubing and air supply piping as applicable)	refer "QTY" column	10% or 2 no. of each type, class size and model whichever is more.	8479
38	Fittings	Mandatory Spares - C & I SPARES-PROCESS CONNECTION PIPING - (for impulse plpmg /tubing, sampling piping/ tubing and air supply piping as applicable)	refer "QTY" column	10 nos. of each type	8479
39	Purge meters	Mandatory Spares - C & I SPARES-PROCESS CONNECTION PIPING - (for impulse plpmg /tubing, sampling piping/ tubing and air supply piping as applicable)	refer "QTY" column	10 % of each model or 2 Nos. whichever is more	8479
40	Filter regulators	Mandatory Spares - C & I SPARES-PROCESS CONNECTION PIPING - (for impulse plpmg /tubing, sampling piping/ tubing and air supply piping as applicable)	refer "QTY" column	10 % of each model or 2 Nos. whichever is more	8479
41	Impulse pipe & tubing of all type	Mandatory Spares - C & I SPARES-PROCESS CONNECTION PIPING - (for impulse plpmg /tubing, sampling piping/ tubing and air supply piping as applicable)	refer "QTY" column	20 mtrs each type & size	8479
42	Impulse line root valve	Mandatory Spares - C & I SPARES-PROCESS CONNECTION PIPING - (for impulse plpmg /tubing, sampling piping/ tubing and air supply piping as applicable)	refer "QTY" column	10% of total quantity used or 4 no. whichever is more for each type and rating of each size	8479
43	SS tube	Mandatory Spares - C & I SPARES-PROCESS CONNECTION PIPING - (for impulse plpmg /tubing, sampling piping/ tubing and air supply piping as applicable)	refer "QTY" column	40 mtrs of each type/size	8479
44	Fitting for SS tube	Mandatory Spares - C & I SPARES-PROCESS CONNECTION PIPING - (for impulse plpmg /tubing, sampling piping/ tubing and air supply piping as applicable)	refer "QTY" column	40 nos. of each type/size	8479
45	Pre fabricated cable of each type	Mandatory Spares - C & I SPARES-INSTRUMENTATION CABLE, INTERNAL WIRING AND ELECTRICAL FIELD	refer "QTY" column	10% of installed quantity	8479
46	Pre fabricated cable connector	Mandatory Spares - C & I SPARES-INSTRUMENTATION CABLE, INTERNAL WIRING AND ELECTRICAL FIELD	refer "QTY" column	10% or 1 no. of each type and model whichever is more.	8479
47	Other cables	Mandatory Spares - C & I SPARES-INSTRUMENTATION CABLE, INTERNAL WIRING AND ELECTRICAL FIELD	refer "QTY" column	10% of each type, pair and size of actual installed quantity	8479
48	Actuators	Mandatory Spares - C & I SPARES-ELECTRICAL ACTUATORS	refer "QTY" column	10% or 1 no. of each type, model and rating, whichever is more.	8479
49	Power unit for modulating actuator	Mandatory Spares - C & I SPARES-ELECTRICAL ACTUATORS	refer "QTY" column	10% or 2 nos. of each type, whichever is more.	8479
50	DC-DC unit/power pack units	Mandatory Spares - C & I SPARES-ELECTRICAL ACTUATORS	refer "QTY" column	10% or 2 nos. of each type, whichever is more.	8479

PROJECT:- 1 X 660 MW BHUSAWAL TPS
PACKAGE:- CONDENSER ON LOAD TUBE CLEANING SYSTEM (COLTCS)
ENQUIRY No. :- PE/PG/BHU/E-6456/2020 Dtd. 15.06.2020

DETAILS IF ITEM - BOQ

SI. No.	DESCRIPTION OF EQUIPMENT / ITEM FOR COLTCS	DESCRIPTION 1	UNIT	QTY	HSN/SAC CODE
	1	2	3	4	5
51	Electronic cards	Mandatory Spares - C & I SPARES-ELECTRICAL ACTUATORS	refer "QTY" column	10% or 5 nos. of each type, whichever is more	8479
52	Brake assembly	Mandatory Spares - C & I SPARES-ELECTRICAL ACTUATORS	refer "QTY" column	10% or 2 nos. of each type, whichever is more.	8479
53	Brake coils	Mandatory Spares - C & I SPARES-ELECTRICAL ACTUATORS	refer "QTY" column	10% or 2 nos. of each type whichever is more.	8479
54	Position feed back transmitters	Mandatory Spares - C & I SPARES-ELECTRICAL ACTUATORS	refer "QTY" column	10% or 2 nos. of each is more.	8479
55	Control unit	Mandatory Spares - C & I SPARES-ELECTRICAL ACTUATORS	refer "QTY" column	10% or 2 nos. of each type whichever is more	8479
56	Torque and limit switch assembly of each unit	Mandatory Spares - C & I SPARES-ELECTRICAL ACTUATORS	refer "QTY" column	10% or 2 nos. of each type, whichever is more.	8479
57	O-ring	Mandatory Spares - C & I SPARES-ELECTRICAL ACTUATORS	refer "QTY" column	1 set of each size	8479
58	Motor	Mandatory Spares - C & I SPARES-ELECTRICAL ACTUATORS	refer "QTY" column	1 no. of each type & rating	8479
59	Auxiliary contact	Mandatory Spares - C & I SPARES-ELECTRICAL ACTUATORS	refer "QTY" column	10% of total quantity used or 2 nos. whichever is more for each type and rating of each size	8479
60	Seal kit	Mandatory Spares - C & I SPARES-ELECTRICAL ACTUATORS	refer "QTY" column	1 set of each type & size	8479
61	<u>Micro PLC system</u> (i.e. integrated CPU & I/O system, where above mentioned components are not applicable)	Mandatory Spares - C & I SPARES-	refer "QTY" column	One Complete Set	8479
62	Recorder	Mandatory Spares - C & I SPARES-CONTROL PANEL AND LOCAL REMOTE CONTROL DESK (AS APPLICABLE)	refer "QTY" column	1(one) No. each type and model	8479
63	Bar graph indicator	Mandatory Spares - C & I SPARES-CONTROL PANEL AND LOCAL REMOTE CONTROL DESK (AS APPLICABLE)	refer "QTY" column	10% of total quantity used in the system or minimum 1 (one) no. whichever is more for each type and model.	8479
64	Digital indicator	Mandatory Spares - C & I SPARES-CONTROL PANEL AND LOCAL REMOTE CONTROL DESK (AS APPLICABLE)	refer "QTY" column	10% of total quantity used in the system or minimum 1 (one) no. whichever is more for each type and model.	8479
65	Mosaic/Conventional Type Push button Station	Mandatory Spares - C & I SPARES-CONTROL PANEL AND LOCAL REMOTE CONTROL DESK (AS APPLICABLE)	refer "QTY" column	10% of total quantity used in the system or minimum 2(two) nos. whichever is more for each type and model.	8479
66	Mosaic Type Push button Station with LED Indication	Mandatory Spares - C & I SPARES-CONTROL PANEL AND LOCAL REMOTE CONTROL DESK (AS APPLICABLE)	refer "QTY" column	10% of total quantity used in the system or minimum 2(two) nos. whichever is more for each type and model.	8479
67	Mosaic Type LED Indication Station	Mandatory Spares - C & I SPARES-CONTROL PANEL AND LOCAL REMOTE CONTROL DESK (AS APPLICABLE)	refer "QTY" column	10% of total quantity used in the system or minimum 2(two) nos. whichever is more for each type and model.	8479
68	Simaphore Indicator	Mandatory Spares - C & I SPARES-CONTROL PANEL AND LOCAL REMOTE CONTROL DESK (AS APPLICABLE)	refer "QTY" column	2(two)Nos. each type	8479
69	Each type of PCB (for non-PLC driven system)	Mandatory Spares - C & I SPARES-ANNUNCIATION SYSTEM (For offsite / Auxiliary Plants)	refer "QTY" column	1(one) No. each	8479
70	Lamp Box with Facia & Lamps (LED type)	Mandatory Spares - C & I SPARES-ANNUNCIATION SYSTEM (For offsite / Auxiliary Plants)	refer "QTY" column	10% with minimum 2 nos.	8479
71	Hooter	Mandatory Spares - C & I SPARES-ANNUNCIATION SYSTEM (For offsite / Auxiliary Plants)	refer "QTY" column	1(one) No.	8479
72	<u>MANDATORY SPARES NOT COVERED ABOVE</u>		refer "QTY" column	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
NOTE :-					
1	quantity variation shall be as per NIT. Unit price quoted by bidder, as above, shall be binding for quantity variation.				
2	Price of commissioning & erection spares and other accessories not listed above shall be included in price of equipment & shall be supplied with the equipment.				
3	Indicate all taxes, duties etc. stating whether included/ excluded in above prices.				
4	Bidder shall furnish this price schedule in his price offer also.				
5	Bidder to quote the price in figures alongwith corresponding words in detailed price format.				
6	Bidder to indicate cost of site visit & mandays charges for installation check, commissioning, trial run and PG test as per technical specification, in their price in Sl. no. 2 & 3 above. Further additional site visit & per mandays charges shall be as obtained on prorata basis specified in Sl. no. 4, 5, 6 & 7 above.				

ANNEXURE -II-A

PROJECT :- 1 X 660 MW BHUSAWAL TPS

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

ENQUIRY No. PE/PG/BHU/E-6456/2020 Dtd. 15.06.2020

	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

PROJECT :- 1 X 660 MW BHUSAWAL TPS
PACKAGE :- COLTCS
ENQ. NO. :- PE/PG/BHU/E-6456/2020 Dtd. 15.06.2020

Letter head of Company (<Rs. 10 Cr value)

Ref.....

Date.....

To,

Bharat Heavy Electricals Limited

PEM, PPEI Building, Plot No 25,

Sector -16A, Noida (U.P)-201301

Subject: - Certification regarding local content

Reference: Tender Enquiry No-.....

Name of Package:

Dear Sir,

We hereby certify that items offered by us of(package name).....for.....(Project Name/Rate contract)..... meets the requirement of minimum local content in line with Cl. No..... of NIT No..... dated..... and the Public Procurement (Preference to Make in India), Order 2017 dated-15.06.2017, 28.05.2018 & 29.05.2019.

We further confirms that details of location at which the local value addition is made will be our registered works at(address of the works)

Yours very truly

..... (authorized signatory of company)

..... (firm name)

authorized signatory
of company