



Ref. Enquiry No.: PE/PG/RTC/E-5621/2017

Dated: 17.05.2017

TENDER ENQUIRY THROUGH E-PROCUREMENT

DUE DATE
29.05.2017
BY 14:00PM

SUBJECT: TENDER ENQUIRY FOR RATE CONTRACT OF COLTCS AS PER TECHNICAL SPECIFICATION NO. PE-TS-RC-165-N002

OUR REF: TENDER ENQUIRY NO: PE/PG/RTC/E-5621/2017, DTD-17.05.2017

Dear Sir/ Ma'am,

We are pleased to invite your offer for subject package in two parts strictly as per Clause-2.0 of the enclosed "Instructions to Bidders". Please upload your best quotation/ offer on <https://bheleps.buyjunction.in> for the requirement strictly as per schedule of price format before above mentioned due date & time. The details of the tender enquiry is as mentioned below:

Sl. No	Description for which Rate Contract is desired	Tentative Quantity	Delivery required
1	COLTCS - Refer Technical specification no PE-TS-RC-165-N002 for detailed description.	As per BOQ cum price schedule in Annexure-I) cumulative for the Prospective Projects as per Annexure-IV	"Six (06) months from drgs. /docs. approval in CAT-I issued by BHEL. Successful bidder to make 1st submission of drawing/docs as per list mentioned in clause 11 of Technical Specification-PE-TS-RC-165-N002, Section I, Sub Section IA taking care of all the comments of BHEL. Any deficiency in documents submitted w.r.t. agreed specification/ comments from BHEL shall be treated as non-submission and no. of days delay in submission of complete documents during approval process, on account of this, would be reduced from the delivery. The vendor shall be responsible for getting approval from BHEL as early as possible and BHEL will support the process, in full, within above time frame and terms & conditions." For Installation Check, Commissioning, Trial Run & PG Test: Vendor to depute their representative to site for carrying out commissioning activities within two weeks of intimation by BHEL, subject to site readiness, failing which LD@0.5% per week or part thereof of total contract value for Installation Check, Commissioning, Trial Run & PG Test for that project shall be levied limited to 10% of Installation Check, Commissioning, Trial Run & PG Test value. For Mandatory Spares: Mandatory Spares to be delivered within 04 months from manufacturing clearance. Separate dispatch/ manufacturing clearance will be issued for Mandatory Spares.

Your best quotation/offer for the above requirement, in line with our terms and conditions, should be submitted online via e-procurement system. It shall be the responsibility of the bidder to ensure that the Tender is submitted on or before the due date by 2 p.m. Part-I bids shall be opened at 3 p.m. on the due date in the presence of authorized representatives of the bidders, who may like to be present.

Note:-

1. Please note that Part Supplies offered for Project shall disqualify the bidder's offer.
 2. Documents and Credential as per Technical PQR, Techno Commercial Bids and Price Bids should be uploaded on the e-procurement portal.
 3. Evaluation will be done on overall L1 (Total cost to BHEL) basis with necessary loading as applicable. Incomplete offer or offer for part of NIT BOM/BOQ shall be summarily rejected.
- Please refer GCC Rev-06 which is available on www.bhelpep.com. You are requested to kindly download the same.

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1. Rate contract on firm price basis for 2 year from placement of Rate Contract PO with a provision for further extension after review on mutual consent will be done.

Two rate contracts (one as per BOQ Annexure IIIA with CIF and other as per BOQ Annexure IIIB without CIF) will be done with the L1 vendor for 100% value at L1 FOR site price. However, ordering against respective project under RC is subject to customer approval. Order for a project (only for the BOQ required as per specific project requirement) shall not be split and will be placed on single vendor.

Further for evaluations, ex works/C&F value shall be checked with applicable taxes, duties & other loadings (if applicable) for both the cases and based on the status orders shall be placed.

Evaluation will be done on overall L1 (Total cost to BHEL) basis with necessary loading as applicable. Incomplete offer or offer for part of NIT BOM/BOQ shall be summarily rejected.

2. Prices shall be firm.
3. Bidders to note the following:-
- Two Rate contracts shall be decided on the basis of grand Total FOR site price of Total BOQ of COLTCS as listed in price format (Annexure- IIIA and IIIB)
 - Though evaluation is proposed on Grand Total FOR site of BOQ mentioned in Annexure IIIA and IIIB, but there is % allocation weightage against BOQ quantity of each item which shall be used for arriving at price break up. Bidders need to give only their Ex Works price of COLTCS for given BOQ at sl no-A.4 column 8 -for Indigenous supplier BOQ/ sl no-A.4 column 17 for foreign supplier BOQ of Annexure I
 - Indigenous bidders also requires to mention % of taxes/ duties (against respective column for ED, CST & Service Tax) applicable for each COLTCS.
 - Indigenous bidder to give % of freight charges considering anywhere in India in the freight column
 - Rest of the prices shall be derived by BHEL in line with % allocation fixed for each item.
 - For better clarity to the bidders where value is to be filled is noted as "to be quoted" and for other columns it will be noted as "derived" which denotes shall be derived by BHEL as per % allocation fixed against each item
 - Indigenous bidders having CIF for raw material have to mention CIF% of total ex works in their bid and % discount on ex works price in lieu of availing CIF
4. Indigenous bidders to note that evaluation shall be done on CST basis, however in case, the entire business volume goes to one vendor (or volume of business shared between the vendors in line with enquiry) having manufacturing facility in the same state, then BHEL may do suitable amendment in PO on case to case basis for taking care the provision of VAT in case of project falling in the same State where manufacturing factory of the vendor is also located.
5. Refer Annexure I for tentative Qty of COLTCS, required for prospective projects, however indigenous bidders to consider delivery anywhere in India.
Project list is indicative only, BHEL may ask for delivery anywhere in India for any of the project added in the prospective project/ existing projects during RC period.
6. Expected Spares (Annexure I) are proposed to be considered for evaluation, however, bidders to note that ordering of the same is subject to received order of end customer i.e. in case end customer asked for Mandatory Spares along with main supply item then only order for Mandatory Spares shall be placed otherwise only main supply shall be taken.

TERMS AND CONDITIONS

- Procurement of the subject package shall be done through e-procurement
- Enquiry No., due date etc. must be legibly super scribed on the offers as per clause no. 2.0 of "Instructions to Bidders".

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3. Offers should be uploaded in two parts online at <https://bheleps.buyjunction.in> as follows:
- Part-I Bid :- Documents and Credential as per Technical PQR and Techno-Commercial offer (along with un-priced copy of un-priced bid and un-priced schedule of Technical-Commercial Deviation, Annexure I & II)
 - Part II Bid :- Price Bid and Priced schedule of Technical-Commercial Deviation
4. Terms and conditions:-
- Part I bid will be opened on date & time mentioned in the NIT or subsequent corrigenda/amendments, if any.
 - Techno-commercial offer of only those bidders shall be evaluated who will meet the Technical pre-qualifying requirement of the tender.
5. Bidders shall submit their offers meeting the requirements of the following tender documents and other Terms and Conditions included in this Enquiry Letter:
- ANNEXURE-I of GCC Rev. 06: Letter to be furnished by the Bidders.
 - DEFINITION OF TERMS.
 - Volume-I: Comprising i) Part-A: Instructions to Bidders, ii) Part-B: General Commercial Terms & Conditions and iii) Special Conditions of Contract, if applicable.
 - Volume-II: Comprising i) Part-A: General Technical Conditions and, ii) Part-B: Technical Specification.
 - Volume-III: Schedules and Data Sheets.
- All the above Tender Documents shall automatically become a part of the Order/Contract after its finalisation.
6. Vendors shall quote in accordance with the requirements mentioned in the tender documents. In case of deviations (Technical/ Commercial), the same shall be highlighted separately giving Clause references along with the Cost of withdrawal of Deviations as per Annexure-II to GCC Rev 06 of "DEVIATION SHEET (COST OF WITHDRAWAL)" along with reasons for taking such deviations
Bidder to note all the points mentioned in "Notes" of Annexure-II to GCC Rev 06
7. Please note the following:
- Price format is enclosed for compliance.
 - SCC enclosed for compliance.
 - GCC enclosed for compliance. GCC Rev-06 is available on www.bhelpem.com. You are requested to kindly download the same.
8. Tenders shall be submitted strictly in accordance with the requirements of the above tender documents.
9. Standard pre-printed terms & conditions of the tenderers shall not be considered valid.
10. Validity of offer shall be as per Clause No. 7.0, "Instructions to Bidders" of GCC Rev 06.
11. Unsolicited fresh/revised Price Bids shall not be entertained.
12. 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.
13. Late tenders will be rejected.
14. Tenders and all correspondence thereof, shall be addressed to the undersigned by name & designation and sent at the following address:
- | | |
|--|--|
| Mr. SUMEET SAHAY, SR ENGR, CMM
M/s Bharat Heavy Electricals Ltd.,
Project Engineering Management,
Power Project Engineering Institute,
HRD & ESI Complex,
Plot No 25, Sector-16 A, Noida-201301
Kind Attn: SUMEET SAHAY/ CMM
E-MAIL: sumeetsahay@bhelpem.co.in
Ph. No. 0120-4213532, 09999498202 | Mr. I P SINGH, SR MANAGER, CMM
M/s Bharat Heavy Electricals Ltd.,
Project Engineering Management,
Power Project Engineering Institute,
HRD & ESI Complex,
Plot No 25, Sector-16 A, Noida-201301
Kind Attn: I P SINGH/ CMM
E-MAIL: indra@bhelpem.co.in
Ph. No. 0120- 4218749, 09818989654 |
|--|--|
15. Definition of Terms is also enclosed. These definitions will apply to all the tender documents including this Enquiry Letter.
16. Delivery:
"Six (06) months from drgs. /docs. approval in CAT-I issued by BHEL. Successful bidder to make 1st submission of drawing/docs as per list mentioned in clause 11 of Technical Specification-PE-TS-RC-165-N002, Section I, Sub Section IA taking care of all the comments of BHEL. Any deficiency in documents submitted w.r.t. agreed specification/ comments from BHEL shall be treated as non-submission and no. of days delay in submission of complete documents during approval process, on account of this, would be reduced from the delivery. The vendor shall be responsible for getting approval from BHEL as early as possible and BHEL will support the process, in full, within above time frame and terms & conditions."
For Installation Check, Commissioning, Trial Run & PG Test: Vendor to depute their representative to site for carrying out commissioning activities within two weeks of intimation by BHEL, subject to site readiness, failing which LD@0.5% per week or part thereof of total contract value for Installation Check, Commissioning, Trial Run & PG Test for that project shall be levied limited to 10% of Installation Check, Commissioning, Trial Run & PG Test value.

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- For Mandatory Spares: Mandatory Spares to be delivered within 04 months from manufacturing clearance. Separate dispatch/ manufacturing clearance will be issued for Mandatory Spares. **PRE-QUALIFICATION REQUIREMENT:-**
- Bidders is requested to fill up the details in "TECHNICAL PRE-QUALIFYING REQUIREMENT" as per the conditions mentioned in the PQR and also to submit the credentials.
- Bids of only those bidders shall be evaluated who meet the Technical pre-qualifying requirements (if applicable).
17. Bidders to note that their bid shall be conditional subject to qualify PQR by registered vendors & non-registered vendors have to qualify PQR & get registered with PEM for the package.
- For registration in PEM** "Bidders needs to apply & get registered for subject package with PEM before P-2 (price bid opening) & hence you need to apply online for registration on PEM web portal & have to enclose acknowledgement with this effect with the bid documents else your bid will not be considered for evaluation"
18. Indigenous Bidders have to quote freight charges in percentage of their quoted ex-works prices.
19. Limit on quantity variation shall be plus 30% of Contract Value (Ex Works) till validity of RC. The Purchaser shall have the right to increase or decrease quantities and scope upto the above extent of value and Seller/ Contractor shall be bound to accept the same at the contracted prices without any escalation.
20. Project list is indicative only, BHEL may ask for delivery anywhere in India for any of the project added in the prospective project/ existing projects during RC period.
21. Bidder has to submit "NO DEVIATION CERTIFICATE FOR TECHNO-COMMERCIAL TERMS AND CONDITIONS AS PER GCC (06), SCC AND NIT". In case of deviations, bidder to clearly mention the same with their techno-commercial offer as per Point No-6 of NIT.
22. All the above Tender Documents shall automatically become a part of the Order/Contract after its finalization.
23. The offers of the bidders who are on the banned list as also the offer of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website www.bhel.com.
24. "The Bidder along with its associate/ collaborators/ sub-contractors/ sub-vendors/ consultants/ service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice."
- BHEL Fraud prevention policy is also uploaded in vendor's section on www.bhelpem.com.
25. Bidders are requested to visit constantly our website to update them self for any technical or commercial change in the NIT.
26. 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://bheleps.buyjunction.in>) under subject tender reference. Bidders are requested to visit our websites from time to time to keep themselves updated. **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 m-junction are also listed below:**
- MJUNCTION HELPDESK Nos. 033-6601 1717, 9163348283 / 9163348284 / 9163348285 / 9163348286 / 8584008116 / 8584008205, eps.customercare@mjunction.in**
- CRM Contact Details:**
- Mr. Santosh Kumar - Cell No. 09717149600, santosh.kumar@mjunction.in
- Ms. Rimi Ghosh - Cell No 09650044156, rimi.ghosh@mjunction.in
27. Bidders to submit their offers strictly in line with the enclosed price format.
28. **CIF allocation is applicable for BOQ mentioned in Annexure III A but not for BOQ mentioned in Annexure III B. Bidder to quote accordingly.**
29. Inspection shall be done by BHEL/ END CUSTOMER/Third party Agency (finalized by BHEL).
30. Any other taxes & duties applicable on the date of bid but not quoted by the bidders shall be to bidder account.
31. Delivery terms for dispatches shall be FOR Dispatch Station for Indigenous bidders & C&F for foreign bidders.
32. This enquiry is subject to Conditions/ limits if any imposed in PMD / Vendor registration.
33. Foreign & indigenous bidders participating through open/limited tender will necessarily have to buy class III DSCs issued by the certifying authorities in India. Basic procedure/ checklist is uploaded on www.bhel.com. Non- registered bidder to submit the credentials required for Registration in BHEL PEM:-
- "Online Registration Portal is operational in BHEL. Non-registered Vendors, who wish to apply for registration with BHEL-PEM, have to 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."



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34. Purchaser reserves the right to split up the scope of the tender enquiry and place the orders for different scope/ items with different bidders and also increase or decrease the quantity.
35. BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).

The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates.

If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com)."

As a reminder to the bidders, system will flash following message (in RED Color) during the course of 'online sealed bid':

"Bidders to submit online sealed bid less than or equal to their envelope sealed bid already submitted to BHEL"

Detailed guidelines of reverse auction 2016 are available in "information section" of www.bhelpem.com, same are applicable for subject tender.

The Bidders has to quote the Single Price (i.e. Total Cost to BHEL) in Reverse Auction. Price are to be inclusive of Packing & Forwarding charges, all the routine & type tests as per tender scope, ED + cess, CST against C-form/VAT, Freight as applicable, insurance charges, etc. including loading (if any). De-loading (if any) shall be done in line with SCC.

IMPORTANT INSTRUCTION TO BIDDERS IN CASE OF REVERSE AUCTION

The Bidders has to quote the Single Price (i.e. Total Cost to BHEL) in Reverse Auction i.e. Price mentioned in SI no-H, column -13 (Rs Y) for indigenous bidders with loading/de loading (if any)/ Price mentioned in SI no-H, column -17 (N) for foreign bidders with loading/de loading (if any). Price are to be inclusive of Packing & Forwarding charges, all the routine & type tests as per tender scope, ED + cess, CST against C-form/VAT, Freight as applicable, Service Tax, including loading (if any). De-loading (if any) shall be done in line with NIT terms.

Following Condition in Reverse Auction shall be treated as follows:

Case-I (Taxes & duties and freight are identical in Reverse Auction & Conventional Price Bid)

Resolution: - Ordering shall be done on lower of the two bids (RA closing price & Conventional Price Bid). After successful completion of reverse auction L1 bidder shall be asked to submit break up in line with taxes & duties, freight quoted in their Conventional Price Bid.

Case-II (In case Bidder has quoted 'CST' in Conventional Price Bid and applicable Tax is 'VAT')

Resolution: - "Total Cost to BHEL shall be maintained by reducing proportion amount in Ex-works quoted by Bidder".

Case-III (In case Bidder has quoted 'VAT' in Conventional Price Bid and applicable Tax is 'CST')

Resolution: - Conventional Bid/RA quoted Prices shall be reduced and CST will be allowed.

Statutory variation shall be applicable.

Any new tax structure (like Goods & Services Tax) as and when implemented by the Government shall become applicable in addition to or in lieu of existing tax structure.

Note: - Applicable taxes & duties shall be determined as per location of works of bidder.

Kindly consider the same while quoting the tender.

36. If any bidder has mentioned the term Not Applicable / Not required / Not Quoted in BHEL price format. The bidder needs to substantiate the same. If the same item will be required in future for the system same will be supplied free of cost.
37. Foreign Suppliers & Indian agents of foreign suppliers: Please refer our website <http://www.bhelpem.com/Tenders.aspx> for details.

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38. L1 bidder will have to submit Bank Guarantee for each POs (irrespective of value) which will be placed under the Rate Contract finalised through this tender considering RA as original contract as per format mentioned in Annexure B to NIT instead of format mentioned in GCC Rev 06
39. Bidder to note that all other terms and condition shall be strictly as per NIT, GCC Rev. 06 & SCC. In the event of any contradiction in the terms and conditions mentioned, the order of preference shall be NIT (this letter) / SCC / GCC Rev. 06.
40. "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".
41. Vendors shall have to enter into Integrity Pact (IP) with BHEL. The Integrity pact shall be returned by the bidder along with their Techno-commercial Bid, duly filled & signed by the authorized signatory and will form part of the order. Only those vendors/bidders who enter into Integrity Pact with BHEL, would be qualified to participate in the bidding Process. (Refer Annexure-IX, as per GCC Rev-06). To oversee implementation of IP, Shri DRS Chaudhary, IAS (Retd.) has been appointed as IEM (Independent External Monitor) by BHEL.
42. Foreign bidders will have to quote C & F (cost & freight) basis instead of FOB.

For importing materials on C&F basis, bidders to note following:

- In case of foreign bidders, the quoted C&F price shall be loaded by factors mentioned in GCC cl no-19.4, ITB, to arrive at total FOR Site price and evaluation will be done on FOR price in Indian currency.
- As per Incoterms (CFR), risk transfers to buyer when the goods have been loaded on board the ship in the country of Export. Hence, shipped on board date mentioned on the clean Bill of Lading or Air way Bill, shall be treated as the date of Shipment/Dispatch for all contractual purposes including calculation of LD.
- Usance period (90 days) of the L/C shall start from the date of Bill of lading/Air Way Bill.
- Bill of Lading shall be considered as equivalent document (refer clause 9.7.1 b OF GCC rev-06) for recognition of dispatch.
- For claiming payment under clause 9.1.1 and 9.2.1 Bill of lading shall be considered instead of receipted LR (refer clause 9.7.2 b of GCC rev-06)
- Freight is to be quoted as inclusive in basic price by vendor and is not to be quoted separately.
- Insurance for evaluation purposes shall be @ 0.1 % of quoted C&F price.
- There will be no change in MRC payment.

Note: Tenderer must submit UN-PRICED Price format duly filled mentioning the word "QUOTED" in place of actual price given in sealed price bid.

Thanking you,
Yours faithfully,
For and on behalf of BHEL

[Signature]

(Signature of official with Name & Designation)

सुमीत सहाय / SUMEET SAHAY
वरिष्ठ अभियन्ता (पी.जी.-1-2)/Sr. Engineer (PG-1-2)
भारत हेवी इलेक्ट्रिकल्स लिमिटेड/Bharat Heavy Electricals Ltd.
पावर सेक्टर-परियोजना इंजीनियरिंग प्रबंधन
Power Sector-Project Engineering Management
प्लॉट नं.-25, सेक्टर-16ए, नोएडा-201301
Plot No. 25, Sector-16A, Noida-201301

Enclosure:

- Enquiry Terms & Conditions
- Price Format (Prices should be quoted in this format only)
- Techno-Commercial Deviation Sheet (Annexure-II to GCC Rev 06)
- BOQ & Technical Specifications
- SCC – ANNEXURE A
- Technical PQR
- Annexure B - BG Format

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RATE CONTRACT

PRICE SCHEDULE FOR COLTCS

NAME OF VENDOR-

INDIGENOUS VENDOR										FOREIGN VENDOR						
SL NO	ITEM DESCRIPTION	UOM	QUANTITY	UNIT EX-WORKS PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL EX WORKS PRICE OF COLTCSs GIVEN AT SL NO-A.4 OF COLUMN 8	UNIT EX-WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL EX WORKS PRICE OF COLTCSs GIVEN AT SL NO-A.4 OF COLUMN 8	TOTAL EX- WORKS PRICE (DULY PACKED) (INR)	ED (INCLUDING CESS) @ % (INR)	CST @ % AGAINST FORM 'C' /E/II (INR)	SERVICE TAX (IN %AGE) (INR)	FREIGHT CHARGES (INCLUDING SERVICE TAX) @ % OF TOTAL EX WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)	UNIT C & F PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL PRICE OF COLTCSs GIVEN AT SL NO-A.4 OF COLUMN 17 INDIAN SEA PORT (CURRENCY)	UNIT C & F PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL PRICE OF COLTCSs GIVEN AT SL NO-A.4 OF COLUMN 17 INDIAN SEA PORT (CURRENCY)	TOTAL C & F PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL PRICE OF COLTCSs GIVEN AT SL NO-A.4 OF COLUMN 17 INDIAN SEA PORT (CURRENCY)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
A	COLTCS - MAIN SUPPLY															
A.1	TYPE I	SETS	2	7.4500000000%	Derived	14.900000%	Derived	% TO BE QUOTED	% TO BE QUOTED			Derived	7.4500000000%	Derived	14.900000%	Derived
A.2	TYPE II	SETS	4	8.2250000000%	Derived	32.900000%	Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	8.2250000000%	Derived	32.900000%	Derived
A.3	TYPE III	SETS	6	8.7000000000%	Derived	52.200000%	Derived	% TO BE QUOTED	% TO BE QUOTED			Derived	8.7000000000%	Derived	52.200000%	Derived
A.4	TOTAL (A.1 TO A.3)															
	SERVICES AT SITE															
B	INSTALLATION CHECKS & COMMISSIONING OF COLTCS	SET	12	0.047675000%	Derived	0.57210%	Derived			% TO BE QUOTED		Derived	0.047675000%	Derived	0.57210%	Derived
C	TRIAL RUN & PG TESTING	SET	12	0.119191667%	Derived	1.43030%	Derived			% TO BE QUOTED		Derived	0.119191667%	Derived	1.43030%	Derived
	MANDATORY SPARES															
D	MANDATORY SPARES (TYPE I)															
D.1	Mechanical Spares															
D.1.1	Sponge rubber balls for condenser on-load tube cleaning system	1000 Nos balls = 1 Lot	1 Lot	0.2080% OF PRICE AT A.1, COL 6	Derived		Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.2080% OF PRICE AT A.1, COL 6	Derived		Derived
D.1.2	Abrasive balls for condenser on-load tube cleaning system	1000 Nos balls = 1 Lot	1 Lot	0.2400% OF PRICE AT A.1, COL 6	Derived		Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.2400% OF PRICE AT A.1, COL 6	Derived		Derived
D.1.3	Worm gear assembly for Ball separator screen	Set	1 Set	3.36% OF PRICE AT A.1, COL 6	Derived		Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	3.36% OF PRICE AT A.1, COL 6	Derived		Derived
D.1.4	Ball separator screen	Set	1 Set	35% OF PRICE AT A.1, COL 6	Derived		Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	35% OF PRICE AT A.1, COL 6	Derived		Derived
D.1.5	Ball Circulating Pump (Complete)	Set	1 Set	8% OF PRICE AT A.1, COL 6	Derived		Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	8% OF PRICE AT A.1, COL 6	Derived		Derived
D.2	Electrical Spares															
D.2.1	415 V Motor															
D.2.1.1	Terminal plates	Nos. each for small motors upto 30 kW	1 Nos	0.16% OF PRICE AT A.1, COL 6	Derived		Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.16% OF PRICE AT A.1, COL 6	Derived		Derived
D.2.1.2	Heaters	set	1 Set	0.04% OF PRICE AT A.1, COL 6	Derived		Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.04% OF PRICE AT A.1, COL 6	Derived		Derived
D.2.1.3	Greasing arrangements	sets each type of motor	1 Set	0.02% OF PRICE AT A.1, COL 6	Derived		Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.02% OF PRICE AT A.1, COL 6	Derived		Derived
D.2.1.4	Motor of each type and rating	10% qty installed of each COLTCS = 1 Lot	1 Lot	0.16 OF PRICE AT A.1, COL 6	Derived		Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.16 OF PRICE AT A.1, COL 6	Derived		Derived
D.2.1.5	Bearings (DE and NDE) for each type and rating of motor		1 Set	0.19% OF PRICE AT A.1, COL 6	Derived		Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.19% OF PRICE AT A.1, COL 6	Derived		Derived
D.3	C&I Spares															
D.3.1	Each type of lamps, PBs, ILPBs, fuse, MCB, MCCB used in the equipment/system.	(20%) installed for each type in each COLTCS = 1 LOT)	1 Lot	0.08% OF PRICE AT A.1, COL 6	Derived		Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.08% OF PRICE AT A.1, COL 6	Derived		Derived
D.3.2	Measuring Instruments - Indicators, Recorders, Electrical Metering and Skid Mounted Instruments															
D.3.2.1	Indicators, recorders and meters offered from each model for the project. These instruments shall be supplied with three sets of blank scales.	(10% of total number of Instruments / transducers offered for each model and type for each COLTCS = 1 LOT)	1 Lot	0.02% OF PRICE AT A.1, COL 6	Derived		Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.02% OF PRICE AT A.1, COL 6	Derived		Derived
D.3.2.2	Skid mounted instruments (if any)	(10% of total no. of instruments for each COLTCS= 1 Lot)	1 Lot	0.03% OF PRICE AT A.1, COL 6	Derived		Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.03% OF PRICE AT A.1, COL 6	Derived		Derived
D.3.2.3	Temperature, Transmitters and Electronic Transmitters (For Pressure, DP, Temp, Flow, Level), Temperature, Pressure, Flow & Level Switch, safety switches, Gauges, meters, Transducer or any other instrument etc.	(10% of total number of Instruments / transducers offered for each model and type for each COLTCS= 1 Lot)	1 Lot	0.0800% OF PRICE AT A.1, COL 6	Derived		Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.0800% OF PRICE AT A.1, COL 6	Derived		Derived
D.3.3	Hooters, Buzzers, Cooling fans of each type.	10 % percent of each type for each COLTCS = 1 Lot	1 Lot	0.02% OF PRICE AT A.1, COL 6	Derived		Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.02% OF PRICE AT A.1, COL 6	Derived		Derived

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INDIGENOUS VENDOR					FOREIGN VENDOR				
		sets of each type / model for each COLTCS		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.02% OF PRICE AT A.1, COL 6
		10% of each type/model for Each COLTCS = 1 Lot		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.03% OF PRICE AT A.1, COL 6
		10% of installed of each current rating for each COLTCS= 1 Lot		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.03% OF PRICE AT A.1, COL 6
		300% of installed of each current rating for each COLTCS= 1 Lot		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.02% OF PRICE AT A.1, COL 6
		10% of installed of each current rating for each COLTCS= 1 Lot		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.02% OF PRICE AT A.1, COL 6
		20% of installed of each current rating for each COLTCS= 1 Lot		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.08% OF PRICE AT A.1, COL 6
		20% of each type and rating for each COLTCS = 1 Lot		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.0200% OF PRICE AT A.1, COL 6
		10% of each type and rating for each COLTCS = 1 Lot		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.0200% OF PRICE AT A.1, COL 6
		(20% of qty installed of each type for each COLTCS= 1 Lot)		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.400% OF PRICE AT A.1, COL 6
		(5% of qty installed of each type for each COLTCS= 1 Lot)		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.0800% OF PRICE AT A.1, COL 6
		(20% qty installed of each COLTCS= 1 Lot)		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.0200% OF PRICE AT A.1, COL 6
		Numbers = Nos.		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.0300% OF PRICE AT A.1, COL 6
		(10% of qty installed of each type & size for each COLTCS= 1 Lot)		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.0800% OF PRICE AT A.1, COL 6
		(10% of qty installed of each COLTCS= 1 Lot)		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.0800% OF PRICE AT A.1, COL 6
		(10% of qty installed of each type & size for each COLTCS= 1 Lot)		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.0800% OF PRICE AT A.1, COL 6
MANDATORY SPARES (TYPE II)									
Mechanical Spares									
E.1									
E.1.1	Sponge rubber balls for condenser on-load tube cleaning system	1000 Nos balls = 1 Lot		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.1884% OF PRICE AT A.2, COL 6
E.1.2	Abrasive balls for condenser on-load tube cleaning system	1000 Nos balls = 1 Lot		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.2174% OF PRICE AT A.2, COL 6
E.1.3	Worm gear assembly for Ball separator screen	Set		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	3.04% OF PRICE AT A.2, COL 6
E.1.4	Ball separator screen	Set		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	35.00% OF PRICE AT A.2, COL 6
E.1.5	Ball Circulating Pump (Complete)	Set		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	7.25% OF PRICE AT A.2, COL 6
Electrical Spares									
E.2									
E.2.1	415 V Motor								
E.2.1.1	Terminal plates	Nos. each for small motors upto 30 kW		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.14% OF PRICE AT A.2, COL 6
E.2.1.2	Heaters	set		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.04% OF PRICE AT A.2, COL 6
E.2.1.3	Greasing arrangements	sets each type of motor		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.01% OF PRICE AT A.2, COL 6
E.2.1.4	Motor of each type and rating	10% qty installed of each COLTCS = 1 Lot		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.14% OF PRICE AT A.2, COL 6
E.2.1.5	Bearings (DE and NDE) for each type and rating of motor			Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.17% OF PRICE AT A.2, COL 6
C&I Spares									
E.3									
E.3.1	Each type of lamps, PBs, ILPBs, fuse, MCCB, MCCB used in the equipment/system. Measuring Instruments - Indicators, Recorders, Electrical Metering and Skid Mounted Instruments	(20% installed for each type in each COLTCS = 1 LOT)		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.07% OF PRICE AT A.2, COL 6
E.3.2	Indicators, recorders and meters offered from each model for the project. These instruments shall be supplied with three sets of blank scales.	(10% of total number of Instruments / transducers offered for each model and type for each COLTCS = 1 LOT)							
E.3.2.1	Skid mounted instruments (if any)	(10% of total no. of instruments for each COLTCS = 1 Lot)		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.02% OF PRICE AT A.2, COL 6
E.3.2.2	Temperature, Transmitters and Electronic Transmitters (For Pressure, DP, Temp, Flow, Level), Temperature, Pressure, Flow & Level Switch, safety switches, Gauges, meters, Transducer or any other instrument etc.	(10% of total number of Instruments / transducers offered for each model and type for each COLTCS= 1 Lot)		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.72% OF PRICE AT A.2, COL 6
E.3.3	Hooters, Buzzers, Cooling fans of each type.	10 % percent of each type for each COLTCS = 1 Lot		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.02% OF PRICE AT A.2, COL 6
E.3.4	Interface cables	sets of each type / model for each COLTCS		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.01% OF PRICE AT A.2, COL 6
E.3.5	Power supply modules (AC to DC Convertors)	10% of each type/model for Each COLTCS = 1 Lot		Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.03% OF PRICE AT A.2, COL 6
E.3.6	Relay based Control Panels								

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INDIGENOUS VENDOR										FOREIGN VENDOR									
E.3.6.1	LEDs for indicating lights	10% of installed of each current rating for each COLTCS= 1 Lot	4 Lot	0.03% OF PRICE AT A.2, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.03% OF PRICE AT A.2, COL 6	Derived						Derived	Derived
E.3.6.2	Control circuit fuses	300% of installed of each current rating for each COLTCS= 1 Lot	4 Lot	0.01% OF PRICE AT A.2, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.01% OF PRICE AT A.2, COL 6	Derived						Derived	Derived
E.3.6.3	MCB/MCB of each current rating	10% of installed of each current rating for each COLTCS= 1 Lot	120 Lot	0.01% OF PRICE AT A.2, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.01% OF PRICE AT A.2, COL 6	Derived						Derived	Derived
E.3.6.4	Relays modules & contactors.	20% of installed of each current rating for each COLTCS= 1 Lot	4 Lot	0.07% OF PRICE AT A.2, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.07% OF PRICE AT A.2, COL 6	Derived						Derived	Derived
E.3.6.5	Cooling Fans of each type, model and rating.	20% of each type and rating for each COLTCS= 1 Lot	1 Lot	0.02% OF PRICE AT A.2, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.02% OF PRICE AT A.2, COL 6	Derived						Derived	Derived
E.3.6.6	Push buttons, ILPBs, Electric meter, Power supply modules.	10% of each type and rating for each COLTCS= 1 Lot	1 Lot	0.01% OF PRICE AT A.2, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.01% OF PRICE AT A.2, COL 6	Derived						Derived	Derived
E.3.7	Alarm Annunciation System																		
E.3.7.1	Logic modules, group card modules, power supply modules, Hooters and any other electronic module.	(20% of qty installed of each type for each COLTCS= 1 Lot)	4 Lot	0.36% OF PRICE AT A.2, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.36% OF PRICE AT A.2, COL 6	Derived						Derived	Derived
E.3.7.2	Un-engraved window boxes complete with LED etc.	(5% of qty installed of each type for each COLTCS= 1 Lot)	4 Lot	0.07% OF PRICE AT A.2, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.07% OF PRICE AT A.2, COL 6	Derived						Derived	Derived
E.3.7.3	LEDs for annunciation facia windows and LEDs box assemblies offered for the project	(20% qty installed of each COLTCS= 1 Lot)	4 Lot	0.01% OF PRICE AT A.2, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.01% OF PRICE AT A.2, COL 6	Derived						Derived	Derived
E.3.7.4	Annunciator hooter	Numbers = Nos.	2 Nos	0.03% OF PRICE AT A.2, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.03% OF PRICE AT A.2, COL 6	Derived						Derived	Derived
E.3.8	Erection Hardware																		
E.3.8.1	Instrument valves, manifold for each type, rating, model number and size of devices supplied for the project	(10% of qty installed of each type & size for each COLTCS= 1 Lot)	4 Lot	0.07% OF PRICE AT A.2, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.07% OF PRICE AT A.2, COL 6	Derived						Derived	Derived
E.3.8.2	Condensate pots of each type & Size installed	(10% of qty installed of each COLTCS= 1 Lot)	4 Lot	0.07% OF PRICE AT A.2, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.07% OF PRICE AT A.2, COL 6	Derived						Derived	Derived
E.3.8.3	Fittings	(10% of qty installed of each type & size for each COLTCS= 1 Lot)	4 Lot	0.07% OF PRICE AT A.2, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.07% OF PRICE AT A.2, COL 6	Derived						Derived	Derived
F	MANDATORY SPARES (TYPE III)																		
F.1	Mechanical Spares																		
F.1.1	Sponge rubber balls for condenser on-load tube cleaning system	1000 Nos balls = 1 Lot	50 Lot	0.1781% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.1781% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.1.2	Abrasive balls for condenser on-load tube cleaning system	1000 Nos balls = 1 Lot	20 Lot	0.2055% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.2055% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.1.3	Worm gear assembly for Ball separator screen	Set	1 Set	2.88% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	2.88% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.1.4	Ball separator screen	Set	1 Set	35.00% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	35.00% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.1.5	Ball Circulating Pump (Complete)	Set	1 Set	6.85% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	6.85% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.2	Electrical Spares																		
F.2.1	415 V Motor																		
F.2.1.1	Terminal plates	Nos. each for small motors upto 30 kW	10 Nos	0.14% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.14% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.2.1.2	Heaters	set	2 Set	0.03% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.03% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.2.1.3	Greasing arrangements	sets each type of motor	4 Set	0.01% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.01% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.2.1.4	Motor of each type and rating	10% qty installed of each COLTCS = 1 Lot	2 Lot	0.14% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.14% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.2.1.5	Bearings (DE and NDE) for each type and rating of motor		4 Set	0.16% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.16% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.3	CK Spares																		
F.3.1	Each type of lamps, PBs, ILPBs, fuse, MCB, MCCB used in the equipment/system.	(20% installed for each type in each COLTCS= 1 LOT)	6 Lot	0.07% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.07% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.3.2	Measuring Instruments - Indicators, Recorders, Electrical Metering and Skid Mounted Instruments																		
F.3.2.1	Indicators, recorders and meters offered from each model for the project. These instruments shall be supplied with three sets of blank scales.	(10% of total number of Instruments / transducers offered for each model and type for each COLTCS = 1 LOT)	6 Lot	0.02% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.02% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.3.2.2	Skid mounted instruments (if any)	(10% of total no. of instruments for each COLTCS= 1 Lot)	6 Lot	0.03% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.03% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.3.2.3	Temperature, Transmitters and Electronic Transmitters (for Pressure, DP, Temp, Flow, Level), Temperature, Pressure, Flow & Level Switch, safety switches, Gauges, meters, Transducer or any other instrument etc.	(10% of total number of Instruments / transducers offered for each model and type for each COLTCS= 1 Lot)	6 Lot	0.68% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.68% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.3.3	Hooters, Buzzers, Cooling fans of each type.	10 % percent of each type for each COLTCS = 1 Lot	1 Lot	0.02% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.02% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.3.4	Interface cables	sets of each type / model for each COLTCS	1 Lot	0.01% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.01% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.3.5	Power supply modules (AC to DC Convertors)	10% of each type/model for Each COLTCS = 1 Lot	1 Lot	0.03% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.03% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.3.6	Relay based Control Panels																		
F.3.6.1	LEDs for indicating lights	10% of installed of each current rating for each COLTCS= 1 Lot	42 Lot	0.03% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.03% OF PRICE AT A.3, COL 6	Derived						Derived	Derived
F.3.6.2	Control circuit fuses	300% of installed of each current rating for each COLTCS= 1 Lot	6 Lot	0.01% OF PRICE AT A.3, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.01% OF PRICE AT A.3, COL 6	Derived						Derived	Derived

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INDIGENOUS VENDOR					FOREIGN VENDOR				
F.3.6.3	MCB/MCCB of each current rating	10% of installed of each current rating for each COLTCS= 1 Lot	64 Lot	Derived	% TO BE QUOTED	Derived	0.01% OF PRICE AT A.3, COL 6	Derived	Derived
F.3.6.4	Relays modules & contactors.	20% of installed of each current rating for each COLTCS= 1 Lot	6 Lot	Derived	% TO BE QUOTED	Derived	0.07% OF PRICE AT A.3, COL 6	Derived	Derived
F.3.6.5	Cooling Fans of each type, model and rating.	20% of each type and rating for each COLTCS= 1 Lot	4 Lot	Derived	% TO BE QUOTED	Derived	0.02% OF PRICE AT A.3, COL 6	Derived	Derived
F.3.6.6	Push buttons, ILPBs, Electric meter, Power supply modules.	10% of each type and rating for each COLTCS= 1 Lot	4 Lot	Derived	% TO BE QUOTED	Derived	0.01% OF PRICE AT A.3, COL 6	Derived	Derived
F.3.7	Alarm Annunciation System								
F.3.7.1	Logic modules, group card modules, power supply modules, Hooters and any other electronic module.	(20% of qty installed of each type for each COLTCS= 1 Lot)	6 Lot	Derived	% TO BE QUOTED	Derived	0.34% OF PRICE AT A.3, COL 6	Derived	Derived
F.3.7.2	Un-engraved window boxes complete with LED etc.	(5% of qty installed of each type for each COLTCS= 1 Lot)	6 Lot	Derived	% TO BE QUOTED	Derived	0.07% OF PRICE AT A.3, COL 6	Derived	Derived
F.3.7.3	LEDs for annunciation facia windows and LEDs box assemblies offered for the project	(20% qty Installed of each COLTCS= 1 Lot)	6 Lot	Derived	% TO BE QUOTED	Derived	0.01% OF PRICE AT A.3, COL 6	Derived	Derived
F.3.7.4	Annunciator hooter	Numbers = Nos.	3 Nos	Derived	% TO BE QUOTED	Derived	0.03% OF PRICE AT A.3, COL 6	Derived	Derived
F.3.8	Erection Hardware								
F.3.8.1	Instrument valves, manifold for each type, rating, model number and size of devices supplied for the project	(10% of qty Installed of each type & size for each COLTCS= 1 Lot)	6 Lot	Derived	% TO BE QUOTED	Derived	0.07% OF PRICE AT A.3, COL 6	Derived	Derived
F.3.8.2	Condensate pots of each type & Size installed	(10% of qty Installed of each COLTCS= 1 Lot)	6 Lot	Derived	% TO BE QUOTED	Derived	0.07% OF PRICE AT A.3, COL 6	Derived	Derived
F.3.8.3	Fittings	(10% of qty Installed of each type & size for each COLTCS= 1 Lot)	6 Lot	Derived	% TO BE QUOTED	Derived	0.07% OF PRICE AT A.3, COL 6	Derived	Derived
G	TOTAL (D.1 TO F.3.8.3)				Derived	Derived			Derived
H	GRAND TOTAL (A.4+B+C+G)				Derived	Derived			Derived = N
I (A)	CHARGES PER VISIT				DERIVED FOR EACH COLTCS TYPE AS PER DERIVED PRICE FOR INSTALLATION CHECK, COMMISSIONING & PG TEST AND NOTES 10 BELOW				
I (B)	MANDAYS CHARGES PER COLTCS				DERIVED FOR EACH COLTCS TYPE AS PER DERIVED PRICE FOR INSTALLATION CHECK, COMMISSIONING & PG TEST AND NOTES 10 BELOW				

Note:-

- Bidder to quote grand total Ex works/total C&F value of the COLTCSs mentioned at A.4 (Rs X for Indigenous bidders/ M for foreign bidder) only as per the BOQ above. The item wise break up of Ex works prices (unit as well as total) for all the items in the BOQ shall be derived as per the formulae indicated above by BHEL. Indigenous bidder also need to indicate taxes percentage in the respective column and freight percentage of Ex works value considering delivery anywhere in India in the freight column.
- Rate contract shall be decided on the basis of evaluation criteria mentioned in NIT
- Value is to be filled only where "to be quoted" is mentioned and for other columns where "derived" is mentioned same shall be derived by BHEL as per % allocation fixed against each item
- Bidder to note that total price indicated above at H should be complete in all respect for the full scope defined and considering all terms and conditions agreed.
- The unit price quoted by bidder shall be binding for quantity variation which is at discretion of purchaser.
- Prices shall remain firm during contract execution.
- For any clarification please refer Technical Specification No-PE-TS-RC-165-N002

8. Indigenous vendors having CIF are required to indicate CIF @ ___% of their total ex-works supply value and ___% Benefit carryforward on ex-works value in lieu of availing CIF.

- Bidder shall furnish this price Schedule indicating "Quoted/Not-Quoted" along with technical offer and actual prices in his price offer.
- ONE SITE VISITS OF THREE (3) DAYS EACH HAS BEEN CONSIDERED FOR INSTALLATION CHECK, COMMISSIONING AND TRIAL RUN FOR ONE (1) NO COLTCS. THE PRICES SHALL BE INCLUSIVE OF CHARGES OF TRAVELLING, BOARDING/LODGING, MEDICAL, INSURANCE ETC. ONE SITE VISITS OF TWENTY (20) DAYS EACH HAS BEEN CONSIDERED FOR PG TESTING FOR ONE (1) NOS COLTCS. THE PRICES SHALL BE INCLUSIVE OF CHARGES OF TRAVELLING, BOARDING/LODGING, MEDICAL, INSURANCE ETC.
- IN CASE OF NON-COMPLETION OF INSTALLATION CHECK, COMMISSIONING, TRIAL RUN AND PG TESTING IN SITE VISITS STIPULATED AT NOTE NO. 10 ABOVE, FOR ANY REASONS NOT ATTRIBUTABLE TO VENDOR (TO BE CERTIFIED BY BHEL SITE), VENDOR SHALL COMPLETE ABOVE ACTIVITIES IN SUBSEQUENT SITE VISITS FOR WHICH COST SHALL BE BORNE BY BHEL ON PRO-RATA BASIS ON PRICE OF SITE VISIT AT SL NO. I (A) AND I (B) ABOVE.
- AMOUNT PAYABLE PER EXTRA SITE VISIT = VISIT CHARGES AS PER SL. NO. I.(A) ABOVE (+) MANDAYS CHARGES AS PER SL. NO. I.(B) ABOVE (X) NO. OF DAYS AT SITE (TO BE CERTIFIED BY BHEL SITE)
- PRICES OF ALL ACCESSORIES, COMMISSIONING & ERECTION SPARES, SPECIAL TOOLS & TACKLES AND OTHER ACCESSORIES NOT LISTED ABOVE SHALL BE INCLUDED IN THE PRICE OF COLTCS & SHALL BE SUPPLIED WITH THE COLTCS.
- BIDDER SHALL FURNISH THIS PRICE SCHEDULE INDICATING "QUOTED/NOT-QUOTED" ALONG WITH TECHNICAL OFFER AND ACTUAL PRICES IN HIS PRICE OFFER.


सुब्रत साहा / SUBRAT SAHAY
 सचिव अभियन्ता (सी.जी.-2)/Sr. Engineer (PG-1-2)
 भारतीय इलेक्ट्रिकल्स लिमिटेड / Bharati Electric Ltd.
 पावर सेक्टर - पावरग्रिड्स इन्फ्रस्ट्रक्चर मंत्रालय
 Power Sector - Power Grids Infrastructure Ministry
 प्लॉट नं. - 25, अक्ट-16, नई दिल्ली-201 301
 Plot No. 25, Sector - 16A, Noida - 201 301



PACKAGE:- COLTCS

TENDER ENQUIRY REF NO-PE/PG/RTC/E-5621/2017, DTD-17.05.2017

NAME OF VENDOR:-

SL NO	VOLUME/ SECTION	PAGE NO.	CLAUSE NO.	TECHNICAL SPECIFICATION/ TENDER DOCUMENT	COMPLETE DESCRIPTION OF DEVIATION	COST OF WITHDRAWAL OF DEVIATION	REFERENCE OF PRICE SCHEDULE ON WHICH COST OF WITHDRAWAL OF DEVIATION IS APPLICABLE	NATURE OF COST OF WITHDRAWAL OF DEVIATION (POSITIVE/ NEGATIVE)	REASONS FOR QUOTING DEVIATION
<u>TECHNICAL DEVIATIONS</u>									
<u>COMMERCIAL DEVIATIONS</u>									
<u>PARTICULARS OF BIDDERS/ AUTHORISED REPRESENTATIVE</u>									
NAME				DESIGNATIONS			SIGN & DATE		

NOTES:

- | |
|--|
| 1. For self manufactured items of bidder, cost of withdrawal of deviation will be applicable on the basic price (i.e. excluding taxes, duties & freight) only. |
| 2. For directly dispatchable items, cost of withdrawal of deviation will be applicable on the basic price including taxes, duties & freight. |
| 3. All the bidders have to list out all their Technical & Commercial Deviations (if any) in detail in the above format. |
| 4. Any deviation not mentioned above and shown separately or found hidden in offer, will not be taken cognizance of. |
| 5. Bidder shall submit duly filled unpriced copy of above format indicating "quoted" in "cost of withdrawal of deviation" column of the schedule above along with their Techno-commercial offer, wherever applicable |
| 6. Bidder shall furnish price copy of above format along with price bid. |
| 7. The final decision of acceptance/ rejection of the deviations quoted by the bidder shall be at discretion of the Purchaser. |
| 8. Bidders to note that any deviation (technical/commercial) not listed in above and asked after Part-I opening shall not be considered |
| 9. For deviations w.r.t. Payment terms, Liquidated damages, Firm prices and submission of E1/ E2 forms before claiming 10% payment, if a bidder chooses not to give any cost of withdrawal of deviation loading as per Annexure-VIII of GCC, Rev-06 will apply. For any other deviation mentioned in un-priced copy of this format submitted with Part-I bid but not mentioned in priced copy of this format submitted with Priced bid, the cost of withdrawal of deviation shall be taken as NIL. |
| 10. Any deviation mentioned in priced copy of this format, but not mentioned in the un-priced copy, shall not be accepted. |
| 11. All techno-commercial terms and conditions of NIT shall be deemed to have been accepted by the bidder, other than those listed in unpriced copy of this format. |
| 12. Cost of withdrawal is to be given separately for each deviation. In no event bidder should club cost of withdrawal of more than one deviation else cost of withdrawal of such deviations which have been clubbed together shall be considered as NIL. |
| 13. In case nature of cost of withdrawal (positive/negative) is not specified it shall be assumed as positive. |
| 14. In case of discrepancy in the nature of impact (positive/ negative), positive will be considered for evaluation and negative for ordering. |

City of Chicago / Street Salary

14. In case of discrepancy in the nature of impact (positive/ negative), positive will be considered for evaluation and negative for ordering.

Dr. B. K. SINGH / Birla Heavy Electricals Ltd.
1001, Sector - 19, Pratap Nagar
Model Sector - Project Engineering Management
प्लॉट नं. 25, सेक्टर - 19, गीता-201 301

**ANNEXURE- III A TO NIT REF NO-PE/PG/RTC/E-5621/2017, DTD-17.05.2017****RATE CONTRACT (WITH CIF)****COLTCS****NAME OF VENDOR-**

SL NO	ITEM DESCRIPTION	UOM	QUANTITY
COLTCS - MAIN SUPPLY			
A			
A.1	TYPE I	SETS	2
A.2	TYPE II	SETS	4
SERVICES AT SITE			
B			
INSTALLATION CHECKS & COMMISSIONING OF COLTCS			
B.1	TYPE I	SET	2
B.2	TYPE II	SET	4
TRIAL RUN & PG TESTING CHARGES			
C			
C.1	TYPE I	SET	2
C.2	TYPE II	SET	4
MANDATORY SPARES			
D			
MANDATORY SPARES (TYPE I)			
D.1	Mechanical Spares		
D.1.1	Sponge rubber balls for condenser on-load tube cleaning system	1000 Nos balls = 1 Lot	1 Lot
D.1.2	Abrasive balls for condenser on-load tube cleaning system	1000 Nos balls = 1 Lot	1 Lot
D.1.3	Worm gear assembly for Ball separator screen	Set	1 Set
D.1.4	Ball separator screen	Set	1 Set
D.1.5	Ball Circulating Pump (Complete)	Set	1 Set
D.2	Electrical Spares		
D.2.1	415 V Motor		
D.2.1.1	Terminal plates	Nos. each for small motors upto 30 kW	1 Nos
D.2.1.2	Heaters	set	1 Set
D.2.1.3	Greasing arrangements	sets each type of motor	1 Set
D.2.1.4	Motor of each type and rating	10% qty installed of each COLTCS = 1 Lot	1 Lot
D.2.1.5	Bearings (DE and NDE) for each type and rating of motor		1 Set
D.3	C&I Spares		
D.3.1	Each type of lamps, PBs, ILPBs, fuse, MCB, MCCB used in the equipment/system.	(20%) installed for each type in each COLTCS.= 1 LOT)	1 Lot
D.3.2	Measuring Instruments - Indicators, Recorders, Electrical Metering and Skid Mounted Instruments		
D.3.2.1	Indicators, recorders and meters offered from each model for the project. These instruments shall be supplied with three sets of blank scales.	(10% of total number of Instruments / transducers offered for each model and type for each COLTCS = 1 LOT)	1 Lot
D.3.2.2	Skid mounted instruments (if any)	(10% of total no. of instruments for each COLTCS.= 1 Lot)	1 Lot
D.3.2.3	Temperature, Transmitters and Electronic Transmitters (For Pressure, DP, Temp, Flow, Level), Temperature, Pressure, Flow & Level Switch, safety switches, Gauges, meters, Transducer or any other instrument etc.	(10% of total number of Instruments / transducers offered for each model and type for each COLTCS= 1 Lot)	1 Lot
D.3.3	Hooters, Buzzers, Cooling fans of each type.	10 % percent of each type for each COLTCS = 1 Lot	1 Lot
D.3.4	Interface cables	sets of each type / model for each COLTCS	1 Lot
D.3.5	Power supply modules (AC to DC Convertors)	10% of each type/model for Each COLTCS = 1 Lot	1 Lot
D.3.6	Relay based Control Panels		
D.3.6.1	LEDs for indicating lights	10% of installed of each current rating for each COLTCS.= 1 Lot	1 Lot
D.3.6.2	Control circuit fuses	300% of installed of each current rating for each COLTCS.= 1 Lot	1 Lot
D.3.6.3	MCB/MCCB of each current rating	10% of installed of each current rating for each COLTCS.= 1 Lot	1 Lot
D.3.6.4	Relays modules & contactors.	20% of installed of each current rating for each COLTCS.= 1 Lot	1 Lot
D.3.6.5	Cooling Fans of each type, model and rating.	20% of each type and rating for each COLTCS = 1 Lot	Lot1
D.3.6.6	Push buttons, ILPBs, Electric meter, Power supply modules.	10% of each type and rating for each COLTCS = 1 Lot	1 Lot
D.3.7	Alarm Annunciation System		
D.3.7.1	Logic modules, group card modules, power supply modules, Hooters and any other electronic module.	(20% of qty Installed of each type for each COLTCS= 1 Lot)	1 Lot
D.3.7.2	Un-engraved window boxes complete with LED etc.	(5% of qty Installed of each type for each COLTCS= 1 Lot)	1 Lot
D.3.7.3	LEDs for annunciation facia windows and LEDs box assemblies offered for the project	(20% qty Installed of each COLTCS= 1 Lot)	1 Lot
D.3.7.4	Annunciator hooter	Numbers = Nos.	1 Nos
D.3.8	Erection Hardware		
D.3.8.1	Instrument valves, manifold for each type, rating, model number and size of devices supplied for the project	(10% of qty Installed of each type & size for each COLTCS= 1 Lot)	1 Lot
D.3.8.2	Condensate pots of each type & Size installed	(10% of qty Installed of each COLTCS= 1 Lot)	1 Lot
D.3.8.3	Fittings	(10% of qty Installed of each type & size for each COLTCS= 1 Lot)	1 Lot
MANDATORY SPARES (TYPE II)			
E			
E.1	Mechanical Spares		
E.1.1	Sponge rubber balls for condenser on-load tube cleaning system	1000 Nos balls = 1 Lot	1 Lot
E.1.2	Abrasive balls for condenser on-load tube cleaning system	1000 Nos balls = 1 Lot	1 Lot
E.1.3	Worm gear assembly for Ball separator screen	Set	1 Set
E.1.4	Ball separator screen	Set	1 Set
E.1.5	Ball Circulating Pump (Complete)	Set	1 Set
E.2	Electrical Spares		
E.2.1	415 V Motor		
E.2.1.1	Terminal plates	Nos. each for small motors upto 30 kW	10 Nos
E.2.1.2	Heaters	set	2 Set
E.2.1.3	Greasing arrangements	sets each type of motor	4 Set
E.2.1.4	Motor of each type and rating	10% qty installed of each COLTCS = 1 Lot	1 Lot
E.2.1.5	Bearings (DE and NDE) for each type and rating of motor		4 Set

RATE CONTRACT (WITH CIF)

COLTCS

NAME OF VENDOR-

SL NO	ITEM DESCRIPTION	UOM	QUANTITY
E.3	C&I Spares		
E.3.1	Each type of lamps, PBs, ILPBs, fuse, MCB, MCCB used in the equipment/system.	(20%) installed for each type in each COLTCS. = 1 Lot)	4 Lot
E.3.2	Measuring Instruments - Indicators, Recorders, Electrical Metering and Skid Mounted Instruments		
E.3.2.1	Indicators, recorders and meters offered from each model for the project. These instruments shall be supplied with three sets of blank scales.	(10% of total number of Instruments / transducers offered for each model and type for each COLTCS = 1 Lot)	4 Lot
E.3.2.2	Skid mounted instruments (if any)	(10% of total no. of instruments for each COLTCS. = 1 Lot)	4 Lot
E.3.2.3	Temperature, Transmitters and Electronic Transmitters (For Pressure, DP, Temp, Flow, Level), Temperature, Pressure, Flow & Level Switch, safety switches, Gauges, meters, Transducer or any other instrument etc.	(10% of total number of Instruments / transducers offered for each model and type for each COLTCS = 1 Lot)	4 Lot
E.3.3	Hooters, Buzzers, Cooling fans of each type.	10 % percent of each type for each COLTCS = 1 Lot	4 Lot
E.3.4	Interface cables	sets of each type / model for each COLTCS	4 Lot
E.3.5	Power supply modules (AC to DC Convertors)	10% of each type/model for Each COLTCS = 1 Lot	4 Lot
E.3.6	Relay based Control Panels		
E.3.6.1	LEDs for indicating lights	10% of installed of each current rating for each COLTCS. = 1 Lot	4 Lot
E.3.6.2	Control circuit fuses	300% of installed of each current rating for each COLTCS. = 1 Lot	4 Lot
E.3.6.3	MCB/MCCB of each current rating	10% of installed of each current rating for each COLTCS. = 1 Lot	120 Lot
E.3.6.4	Relays modules & contactors.	20% of installed of each current rating for each COLTCS. = 1 Lot	4 Lot
E.3.6.5	Cooling Fans of each type, model and rating.	20% of each type and rating for each COLTCS = 1 Lot	1 Lot
E.3.6.6	Push buttons, ILPBs, Electric meter, Power supply modules.	10% of each type and rating for each COLTCS = 1 Lot	1 Lot
E.3.7	Alarm Annunciation System		
E.3.7.1	Logic modules, group card modules, power supply modules, Hooters and any other electronic module.	(20% of qty Installed of each type for each COLTCS = 1 Lot)	4 Lot
E.3.7.2	Un-engraved window boxes complete with LED etc.	(5% of qty Installed of each type for each COLTCS = 1 Lot)	4 Lot
E.3.7.3	LEDs for annunciation facia windows and LEDs box assemblies offered for the project	(20% qty Installed of each COLTCS = 1 Lot)	4 Lot
E.3.7.4	Annunciator hooter	Numbers = Nos.	2 Nos
E.3.8	Erection Hardware		
E.3.8.1	Instrument valves, manifold for each type, rating, model number and size of devices supplied for the project	(10% of qty Installed of each type & size for each COLTCS = 1 Lot)	4 Lot
E.3.8.2	Condensate pots of each type & Size installed	(10% of qty Installed of each COLTCS = 1 Lot)	4 Lot
E.3.8.3	Fittings	(10% of qty Installed of each type & size for each COLTCS = 1 Lot)	4 Lot

17/12

SUNDEET SAHAY
ज्येष्ठ अभियंता (मौलिक-1-2) / Sr. Engineer (PG-1)
प्रमुख, एन. इलेक्ट्रिकल सिस्टीम / Head, Heavy Electricals Sd.
अवर सैक्टर - प्रोजेक्टिंग / Junior Section Engineer
Power Sector - Project Engineering Management
फ्लोर नं. 25, सेक्टर-10A, एनएच-24, मुंबई
Pin No. 25, Sector-10A, NH-24, Mumbai 400 001



ANNEXURE- III B TO NIT REF NO-PE/PG/RTC/E-5621/2017, DTD-17.05.2017

RATE CONTRACT (WITHOUT CIF)

COLTCS

NAME OF VENDOR-

SL NO	ITEM DESCRIPTION	UOM	QUANTITY
1	2	3	4
A	COLTCS - MAIN SUPPLY		
A.1	TYPE III	SETS	6
B	SERVICES AT SITE		
B.1	TYPE III	SET	6
C	INSTALLATION CHECKS & COMMISSIONING OF COLTCS		
C.1	TYPE III	SET	6
D	MANDATORY SPARES		
D.1	MANDATORY SPARES (TYPE III)		
D.1.1	Mechanical Spares		
D.1.1	Sponge rubber balls for condenser on-load tube cleaning system	1000 Nos balls = 1 Lot	50 Lot
D.1.2	Abrasive balls for condenser on-load tube cleaning system	1000 Nos balls = 1 Lot	20 Lot
D.1.3	Worm gear assembly for Ball separator screen	Set	1 Set
D.1.4	Ball separator screen	Set	1 Set
D.1.5	Ball Circulating Pump (Complete)	Set	1 Set
D.2	Electrical Spares		
D.2.1	415 V Motor		
D.2.1.1	Terminal plates	Nos. each for small motors upto 30 kW	10 Nos
D.2.1.2	Heaters	set	2 Set
D.2.1.3	Greasing arrangements	sets each type of motor	4 Set
D.2.1.4	Motor of each type and rating	10% qty installed of each COLTCS = 1 Lot	2 Lot
D.2.1.5	Bearings (DE and NDE) for each type and rating of motor		4 Set
D.3	C&I Spares		
D.3.1	Each type of lamps, PBs, ILPBs, fuse, MCB, MCCB used in the equipment/system.	(20% installed for each type in each COLTCS = 1 LOT)	6 Lot
D.3.2	Measuring Instruments - Indicators, Recorders, Electrical Metering and Skid Mounted Instruments		
D.3.2.1	Indicators, recorders and meters offered from each model for the project. These instruments shall be supplied with three sets of blank scales.	(10% of total number of Instruments / transducers offered for each model and type for each COLTCS = 1 LOT)	6 Lot
D.3.2.2	Skid mounted instruments (if any)	(10% of total no. of instruments for each COLTCS = 1 Lot)	6 Lot
D.3.2.3	Temperature, Transmitters and Electronic Transmitters (For Pressure, DP, Temp, Flow, Level), Temperature, Pressure, Flow & Level Switch, safety switches, Gauges, meters, Transducer or any other instrument etc.	(10% of total number of Instruments / transducers offered for each model and type for each COLTCS = 1 Lot)	6 Lot
D.3.3	Hooters, Buzzers, Cooling fans of each type.	10 % percent of each type for each COLTCS = 1 Lot	1 Lot
D.3.4	Interface cables	sets of each type / model for each COLTCS	1 Lot
D.3.5	Power supply modules (AC to DC Convertors)	10% of each type/model for Each COLTCS = 1 Lot	1 Lot
D.3.6	Relay based Control Panels		
D.3.6.1	LEDs for indicating lights	10% of installed of each current rating for each COLTCS = 1 Lot	42 Lot
D.3.6.2	Control circuit fuses	300% of installed of each current rating for each COLTCS = 1 Lot	6 Lot
D.3.6.3	MCB/MCCB of each current rating	10% of installed of each current rating for each COLTCS = 1 Lot	64 Lot
D.3.6.4	Relays modules & contactors.	20% of installed of each current rating for each COLTCS = 1 Lot	6 Lot
D.3.6.5	Cooling Fans of each type, model and rating.	20% of each type and rating for each COLTCS = 1 Lot	4 Lot
D.3.6.6	Push buttons, ILPBs, Electric meter, Power supply modules.	10% of each type and rating for each COLTCS = 1 Lot	4 Lot
D.3.7	Alarm Annunciation System		
D.3.7.1	Logic modules, group card modules, power supply modules, Hooters and any other electronic module.	(20% of qty Installed of each type for each COLTCS = 1 Lot)	6 Lot
D.3.7.2	Un-engraved window boxes complete with LED etc.	(5% of qty Installed of each type for each COLTCS = 1 Lot)	6 Lot
D.3.7.3	LEDs for annunciation facia windows and LEDs box assemblies offered for the project	(20% qty Installed of each COLTCS = 1 Lot)	6 Lot
D.3.7.4	Annunciator hooter	Numbers = Nos.	3 Nos
D.3.8	Erection Hardware		
D.3.8.1	Instrument valves, manifold for each type, rating, model number and size of devices supplied for the project	(10% of qty Installed of each type & size for each COLTCS = 1 Lot)	6 Lot
D.3.8.2	Condensate pots of each type & Size installed	(10% of qty Installed of each COLTCS = 1 Lot)	6 Lot
D.3.8.3	Fittings	(10% of qty Installed of each type & size for each COLTCS = 1 Lot)	6 Lot

ANNEX-IV TO NIT REF NO-PE/PG/RTC/E-5621/2017, DTD-17.05.2017

Sl no.	Prospective Project List
1	1X525 MW TUTICORIN TPS
2	1X800 MW TANGEDCO NORTH CHENNAI TPP
3	2X660 MW ENNORE SEZ STPP
4	2X800 MW UPPUR STPP


सुनील कुमार / SUNIL KUMAR
वरिष्ठ अभियंता (पी जी एन-2) / Sr. Engineer (PG-N-2)
भारत भारती इंजीनियरिंग लिमिटेड / Bharat Bharati Engineering Ltd.
पावर सेक्टर - प्रोजेक्ट्स / Power Sector - Projects
Power Sector - Project Engineer / Managant
प्लॉट नं.-25, सेक्टर-16A, नुमा-201 301
Plot No. 25, Sector-16A, Numa-201 301

ANNEXURE- A TO NIT REF NO-PE/PG/RTC/E-5621/2017, DTD-17.05.2017

SPECIAL CONDITION OF RATE CONTRACT FOR COLTCS

1. BHEL/PEM intends to enter into Rate Contract for the tendered various type/sizes initially for a period of two year. The Rate Contract shall come into force from the date of issue of Purchase order for Rate Contract. Validity for ordering shall be two year from the purchase order for Rate Contract.
2. Transit Insurance is in BHEL scope
3. The items will be required against respective projects. Exact quantities and Project information shall be intimated while placing order for a specific project based on the Rate Contract.
4. In case of Indigenous bidders, the freight charges shall be payable, as calculated at percentage of ex-works prices quoted by the bidder or actual freight charges paid to transporter whichever is lower against production of documentary evidence. Vendor to quote freight charges as percentage (%) of ex-works price for destination anywhere in India.
5. Indigenous vendor to note that Excise Duty is payable on self-manufacturing item only as per clause no 4.1.2 of GCC Rev 06 & hence for their BOI may quote Excise Duty is inclusive or Nil.
6. The prices shall remain firm during the period of two year with a provision for further extension after review on mutual consent.
7. **In case of Indigenous bidders:** Inspection of materials shall be carried out by BHEL/CQA and or by Customer or by an authorized agency at manufacture's works before dispatch, if required. Dispatch of material to be done, only after receipt of BHEL/Customer MDCC. It is responsibility of vendor to for obtain Material Dispatch Clearance Certificate (MDCC) from BHEL or Customer as required before dispatch of material.

Vendor shall give inspection call on BHEL-CQS web site to applicable inspection agency with a copy of inspection call to BHEL-PEM for arranging Customer participation (if applicable) in inspection / Joint inspection on the proposed date with an advance notice of 15 working days. Inspection charges shall be paid by BHEL-PEM.

Items have to be manufactured as per specification and supplied strictly in accordance with the approved BHEL / Customer's Drawings & Quality Plan. The items/ test certificate of items, which for any reason are not acceptable to BHEL / Customer, shall be required to be retested. No extra charge shall be payable on those account by BHEL.

8. In case of Foreign Bidders:

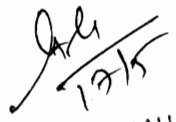
In case of Imported Supplies, advance notice of 30 days for participation in inspection (if applicable, in line with approved QAP/ Customer Hold Points) shall be given by vendor. Third party inspection agency shall be informed to vendor by BHEL-PEM.

Test Certificates / Inspection reports (as applicable) duly accepted by the Inspection agency in line with approved QAP/ Customer Hold Points shall be submitted to BHEL/PEM, NOIDA. The above Inspection reports / Test certificates shall be reviewed by PEM-Engineering in line with the Technical Specifications & Approved Data sheets and then sent to Customer for their clearance. The dispatch clearance (MDCC) by Customer shall be given to the foreign supplier (or their representative in India) through BHEL/PEM after acceptance of above test certificates by Customer.

Inspection charges shall be borne by the vendor and the same shall be included in his offer to BHEL-PEM.

Items have to be manufactured as per specification and supplied strictly in accordance with the approved BHEL / Customer's Drawings & Quality Plan. The items/ test certificate of items, which for any reason are not acceptable to BHEL / Customer, shall be required to be retested. No extra charge shall be payable on those account by BHEL.

9. Mode dispatch for indigenous vendors shall be by road through Schedule Bank/BHEL (PEM) approved transporters.
10. Other terms and conditions shall be as per Standard Technical specification no. PE-TS-RC-165-N002 & GCC Rev 06, Enquiry letter.
11. This enquiry is subject to Conditions/ limits if any imposed in PMD/ Vendor registration.
12. Tentative quantity is given in enquiry.
13. Bidders to submit offer for RC of said items ONLINE via e-Procurement System only. Complete tender in all respects duly signed & stamped on each and every page by the authorized signatory of the bidder as a token of acceptance of all the terms and conditions of tender.
14. The Bidder along with its associate/ collaborators/ sub-contractors/ sub-vendor/ consultants/ service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL web site <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud as soon as it comes to their notice.


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वरिष्ठ अभियन्ता (पी जी ए-2) / Sr. Engineer (PG-J-2)
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पावर सेक्टर - प्रोजेक्ट इंजीनियरिंग प्रभाग
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