

Ref No. : PE/PG/RTC/E-5598/2017/CORRIGENDA/01

Date: 05.05.2017

CORRIGENDA / ADDENDUM-01

SUBJECT: TENDER ENQUIRY FOR RATE CONTRACT OF PALTE HEAT EXCHANGER AS PER TECHNICAL SPECIFICATION NO. PE-TS-RC-179-N001

OUR REF: TENDER ENQUIRY NO: PE/PG/RTC/E-5598/2017, DTD-24.04.2017

1. Please find Amendment I to Technical Specification enclosed.
2. Please find Revised Price Schedule Rev 01 enclosed. Please consider the same while quoting.
3. The last date of submission of offer against tender for Rate Contract of Plate Heat Exchanger invited vide Enquiry No PE/PG/RTC/E-5550/2017, DTD-04.04.2017 is extended up to **17.05.2017, 14.00PM**. Part I Bid opening will be done on **17.05.2017, 15.00PM**. All bidders are requested to visit the website www.bhel.com (Tender Notifications Section) OR www.bhelpem.com. All future corrigenda/ amendment and due date extension, if any, for this tender shall be hosted only on above websites.
4. Expected Spares (SI No-C of 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.
5. Delivery for PG Test shall be read as- 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 supervision for that project shall be levied limited to 10% of supervision value.
6. Rate Contract is to be done with 2 vendors in ratio of 60: 40, value wise at L1 FOR site price for PHEs BOQ mentioned in Annexure IIIA (% of splitting of RC between 2 vendors may be changed during ordering process, if L1 bidder is not customer approved); however 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.

L1 rates shall be counter offered to vendors (L2, L3 & so on) in succession. If none accepts L1 rates, RC shall be done with L1 vendor for 100 % value of BOQ mentioned in Annexure IIIA . Vendors shall be asked to quote prices with CST against form C and same state ordering shall not be done to save VAT.
7. Rate Contract is to be done with 2 vendors in ratio of 60: 40, value wise at L1 FOR site price for PHEs BOQ mentioned in Annexure IIIB (% of splitting of RC between 2 vendors may be changed during ordering process, if L1 bidder is not customer approved); however 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.



Please reply to:

**Sh Sumeet Sahay, Sr. Engineer
CMM**

Power Project Engineering Institute Building
HRD & ESI Complex Plot No. 25, Sector -16 A,
BHEL-PEM,Noida-201301 (U.P.)
Tel No.0120-4213532, 09999498202

Ref No. : PE/PG/RTC/E-5598/2017/CORRIGENDA/01

Date: 05.05.2017

L1 rates shall be counter offered to vendors (L2, L3 & so on) in succession. If none accepts L1 rates, RC shall be done with L1 vendor for 100 % value of BOQ mentioned in Annexure IIIB . Vendors shall be asked to quote prices with CST against form C and same state ordering shall not be done to save VAT.

8. Point no-3 of NIT (Page-2of7) shall be read as-

Bidders to note the following:-

- Two Rate contracts shall be decided on the basis of grand Total FOR site price of Total BOQ of PHE as listed in price format (Annexure-IIIA and IIIB)
 - Though evaluation is proposed on Grand Total FOR site of BOQ mentiuned 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 PHE for given BOQ at sl no-a.14 column 8 -for Indigenous supplier BOQ/ sl no-A.14 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 PHE.
 - 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
9. Point No-19 of NIT (Page-4 of 7) shall be read as - Indigeneous bidders have to quote freight charges in percentage of their quoted ex-works prices.
10. Point No-22 of NIT (Page-4of7) shall be read as - 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.
11. Point no-34 of NIT (Page-5of7) shall be read as - 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.

Thanking You,

With Regards,

For & on behalf of BHEL

SUMEET SAHAY
SR ENGINEER/CMM

सुमीत साहय / SUMEET SAHAY
वर्गिक अभियंता (पी.जी.एन-2)/Sr. Engineer (PG-I-2)
भारत भारी इलेक्ट्रिकल्स लिमिटेड/Bharat Heavy Electricals Ltd.
पावर सेक्टर-परियोजना इंजीनियरिंग प्रबंधन
Power Sector-Project Engineering Management
प्लॉट नं.-25, सेक्टर-16ए, नोडा-201301
Plot No. 25, Sector-16A, Noida-201301

Please reply to:

Sh Sumeet Sahay, Sr. Engineer
CMM

Power Project Engineering Institute Building
HRD & ESI Complex Plot No. 25, Sector -16 A,
BHEL-PEM,Noida-201301 (U.P.)
Tel No.0120-4213532, 09999498202



RATE CONTRACT

REVISED PRICE SCHEDULE FOR PLATE HEAT EXCHANGERS (REV01)

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 PHES GIVEN AT SL NO-A.14 OF COLUMN 8	UNIT EX-WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL EX WORKS PRICE OF PHES GIVEN AT SL NO-A.14 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 PHES GIVEN AT SL NO-A.14 OF COLUMN 17 INDIAN SEA PORT	UNIT C & F PRICE (DULY PACKED) INDIAN SEA PORT (CURRENCY)	TOTAL C & F PRICE (DULY PACKED) IN PERCENTAGE OF TOTAL PRICE OF PHES GIVEN AT SL NO-A.14 OF COLUMN 17 INDIAN SEA PORT	TOTAL C & F PRICE (DULY PACKED) INDIAN SEA PORT (CURRENCY)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
A		PLATE HEAT EXCHANGER - MAIN SUPPLY														
A.1	TYPE I	NOS.	3	0.966666667%	Derived	2.90000%	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.966666667%	Derived	2.90000%	Derived
A.2	TYPE II	NOS.	2	0.420000000%	Derived	0.84000%	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.420000000%	Derived	0.84000%	Derived
A.3	TYPE III	NOS.	2	1.010000000%	Derived	2.02000%	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	1.010000000%	Derived	2.02000%	Derived
A.4	TYPE IV	NOS.	6	1.318333333%	Derived	7.91000%	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	1.318333333%	Derived	7.91000%	Derived
A.5	TYPE V	NOS.	3	1.693333333%	Derived	5.08000%	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	1.693333333%	Derived	5.08000%	Derived
A.6	TYPE VI	NOS.	2	1.295000000%	Derived	2.59000%	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	1.295000000%	Derived	2.59000%	Derived
A.7	TYPE VII	NOS.	6	3.385000000%	Derived	20.31000%	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	3.385000000%	Derived	20.31000%	Derived
A.8	TYPE VIII	NOS.	4	1.142500000%	Derived	4.57000%	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	1.142500000%	Derived	4.57000%	Derived
A.9	TYPE IX	NOS.	3	3.166666667%	Derived	9.50000%	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	3.166666667%	Derived	9.50000%	Derived
A.10	TYPE X	NOS.	2	1.365000000%	Derived	2.73000%	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	1.365000000%	Derived	2.73000%	Derived
A.11	TYPE XI	NOS.	6	3.516666667%	Derived	21.10000%	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	3.516666667%	Derived	21.10000%	Derived
A.12	TYPE XII	NOS.	6	1.208333333%	Derived	7.25000%	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	1.208333333%	Derived	7.25000%	Derived
A.13	TYPE XIII	NOS.	3	4.400000000%	Derived	13.20000%	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	4.400000000%	Derived	13.20000%	Derived
A.14		TOTAL (A.1 TO A.13)				100.000000%	TO BE QUOTED = Rs X	Derived	Derived		Derived				100.000000%	TO BE QUOTED = M
					UNIT PRICE FOR PG TEST (INR)	TOTAL EX WORKS PRICE FOR PG TEST IN PERCENTAGE OF TOTAL EX WORKS PRICE OF PHES GIVEN AT SL NO-A.14 OF COLUMN 8	TOTAL EX WORKS PRICE FOR PG TEST (INR)			SERVICE TAX (IN %AGE) (INR)		TOTAL PRICE FOR PG TEST WITH SERVICE TAX (INR)	UNIT PRICE FOR PG TEST	UNIT PRICE FOR PG TEST (CURRENCY)	TOTAL PRICE OF PG TEST IN %AGE OF TOTAL PRICE OF PHES GIVEN AT SL NO-A.14 OF COLUMN 17 INDIAN SEA PORT	TOTAL PRICE FOR PG TEST (CURRENCY)
B	SERVICES AT SITE PG TEST AT SITE (CONSIDERING 1 SET PER PHE) (NOTE: 1SET = PG TEST FOR ONE PHE.)															
B.1	PG Test at site	SET	33	0.008793939%	Derived	0.2902%	Derived	% TO BE QUOTED		% TO BE QUOTED		Derived	0.008793939%	Derived	0.2902%	Derived
				EXPECTED QUANTITY OF SPARES AS PER DATASHEET A OF SECTION IA	UNIT EX-WORKS PRICE (DULY PACKED)	UNIT EX-WORKS PRICE (DULY PACKED) (INR)	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) INDIAN SEA PORT	UNIT C & F PRICE (DULY PACKED) INDIAN SEA PORT (CURRENCY)	TOTAL C & F PRICE (DULY PACKED) INDIAN SEA PORT (CURRENCY)	
C	MANDATORY SPARES EXPECTED SPARES FOR EACH PHE TYPE AS PER SPARE LIST INDICATED IN DATASHEET A AT SECTION IB OF SPECIFICATION.															
C.1	TYPE I	HEAT TRANSFER PLATES	1 LOT = 1% OF PLATES IN EACH PHE	1	0.700% OF PRICE AT A.1, COL 6	Derived	Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.700% OF PRICE AT A.1, COL 15	Derived		Derived
		GASKETS (ALL TYPES)	1 LOT = 1% OF GASKETS OF EACH TYPE IN EACH PHE	1	0.150% OF PRICE AT A.1, COL 6	Derived	Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.150% OF PRICE AT A.1, COL 15	Derived		Derived
		END PLATE GASKETS	NOS.	1	0.055% OF PRICE AT A.1, COL 6	Derived	Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.055% OF PRICE AT A.1, COL 15	Derived		Derived
		FASTENERS INCLUDING TIE RODS	1 LOT = 1% OF FASTENERS OF EACH TYPE IN EACH PHE	1	0.050% OF PRICE AT A.1, COL 6	Derived	Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.050% OF PRICE AT A.1, COL 15	Derived		Derived
C.2	TYPE II	HEAT TRANSFER PLATES	1 LOT = 1% OF PLATES IN EACH PHE	1	0.7% PRICE AT A.2, COL 6	Derived	Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.7% PRICE AT A.2, COL 15	Derived		Derived
		GASKETS (ALL TYPES)	1 LOT = 1% OF GASKETS OF EACH TYPE IN EACH PHE	1	0.15% PRICE AT A.2, COL 6	Derived	Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.15% PRICE AT A.2, COL 15	Derived		Derived
		END PLATE GASKETS	NOS.	1	0.074% PRICE AT A.2, COL 6	Derived	Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.074% PRICE AT A.2, COL 15	Derived		Derived
		FASTENERS INCLUDING TIE RODS	1 LOT = 1% OF FASTENERS OF EACH TYPE IN EACH PHE	1	0.05% PRICE AT A.2, COL 6	Derived	Derived	% TO BE QUOTED	% TO BE QUOTED		% TO BE QUOTED	Derived	0.05% PRICE AT A.2, COL 15	Derived		Derived

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C-12	ITEM	END PLATE GASKETS	NOS.	INDIGENOUS VENDOR					FOREIGN VENDOR				
				1	0.025% OF PRICE AT A.12, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.025% OF PRICE AT A.12, COL 15	Derived	Derived
C.13	TYPE XIII	FASTENERS INCLUDING TIE RODS	1 LOT = 1% OF FASTENERS OF EACH TYPE IN EACH PHE	1	0.03% OF PRICE AT A.12, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.03% OF PRICE AT A.12, COL 15	Derived	Derived
		HEAT TRANSFER PLATES	1 LOT = 1% OF PLATES IN EACH PHE	1	0.8% OF PRICE AT A.13, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.8% OF PRICE AT A.13, COL 15	Derived	Derived
		GASKETS (ALL TYPES)	1 LOT = 1% OF GASKETS OF EACH TYPE IN EACH PHE	1	0.15% OF PRICE AT A.13, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.15% OF PRICE AT A.13, COL 15	Derived	Derived
		END PLATE GASKETS	NOS.	1	0.015% OF PRICE AT A.13, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.015% OF PRICE AT A.13, COL 15	Derived	Derived
C.14		FASTENERS INCLUDING TIE RODS	1 LOT = 1% OF FASTENERS OF EACH TYPE IN EACH PHE	1	0.03% OF PRICE AT A.13, COL 6	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	0.03% OF PRICE AT A.13, COL 15	Derived	Derived
		TOTAL (C.1 TO C.13)					Derived	Derived	Derived	Derived			Derived
D		GRAND TOTAL (A.14+B.14+C.14)					Derived	Derived	Derived	Derived = Rs Y			Derived = N

Note:-

- Bidder to quote grand total Ex works/total C&F value of the PHEs mentioned at A.1 to A.13 (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 D 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-179-N001
- Price of all accessories, commissioning spares, special Tools & tackle and other accessories not listed above shall be included in the price of PHE & shall be supplied with the PHE.

9. 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.

10. Bidder shall furnish this price Schedule indicating "Quoted/Not-Quoted" along with technical offer and actual prices in his price offer.

Project Engineer, PHE

 Date: 22/05/2018



PACKAGE:- PLATE HEAT EXCHANGER

TENDER ENQUIRY REF NO-PE/PG/RTC/E-5598/2017, DTD-24.04.2017

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. |

YAHYIA SUMMIT SAKHAY

Dr. J. H. P. (Jr.) / S. Engineer (F-6) (7-12)

W. W. Hall Heavy Electric Co.

प्रतिष्ठान प्रशासन एवं वित्त प्रबंधन

Power 2019-2021 301
Date 2019-2021 301

Plot No. 25, Sector-16A, Noida-201 301

4/25

RATE CONTRACT (WITH CIF)

PLATE HEAT EXCHANGERS REV 01

SL NO	ITEM DESCRIPTION	UOM	ORDERED QUANTITY	EXPECTED QUANTITY OF SPARES AS PER DATASHEET A OF SECTION IA
A	PLATE HEAT EXCHANGER - MAIN SUPPLY			
A.1	TYPE I	NOS.	3	
A.2	TYPE II	NOS.	2	
A.3	TYPE V	NOS.	3	
A.4	TYPE VI	NOS.	2	
A.5	TYPE VII	NOS.	6	
A.6	TYPE VIII	NOS.	4	
A.7	TYPE IX	NOS.	3	
A.8	TYPE X	NOS.	2	
B	SERVICES AT SITE PG TEST AT SITE (CONSIDERING 1 SET PER PHE) (NOTE: 1SET = PG TEST FOR ONE PHE.)			
B.1	TYPE VII	SET	1	
B.2	TYPE VIII	SET	1	
C	MANDATORY SPARES EXPECTED SPARES FOR EACH PHE TYPE AS PER SPARE LIST INDICATED IN DATASHEET A AT SECTION IB OF SPECIFICATION.			
C.1	TYPE I	HEAT TRANSFER PLATES	1 LOT = 1% OF PLATES IN EACH PHE	1
		GASKETS (ALL TYPES)	1 LOT = 1% OF GASKETS OF EACH TYPE IN EACH PHE	1
		END PLATE GASKETS	NOS.	1
		FASTENERS INCLUDING TIE RODS	1 LOT = 1% OF FASTENERS OF EACH TYPE IN EACH PHE	1
C.2	TYPE II	HEAT TRANSFER PLATES	1 LOT = 1% OF PLATES IN EACH PHE	1
		GASKETS (ALL TYPES)	1 LOT = 1% OF GASKETS OF EACH TYPE IN EACH PHE	1
		END PLATE GASKETS	NOS.	1
		FASTENERS INCLUDING TIE RODS	1 LOT = 1% OF FASTENERS OF EACH TYPE IN EACH PHE	1
C.3	TYPE V	HEAT TRANSFER PLATES	1 LOT = 1% OF PLATES IN EACH PHE	1
		GASKETS (ALL TYPES)	1 LOT = 1% OF GASKETS OF EACH TYPE IN EACH PHE	1
		END PLATE GASKETS	NOS.	1
		FASTENERS INCLUDING TIE RODS	1 LOT = 1% OF FASTENERS OF EACH TYPE IN EACH PHE	1
C.4	TYPE VI	HEAT TRANSFER PLATES	1 LOT = 1% OF PLATES IN EACH PHE	1
		GASKETS (ALL TYPES)	1 LOT = 1% OF GASKETS OF EACH TYPE IN EACH PHE	1
		END PLATE GASKETS	NOS.	1
		FASTENERS INCLUDING TIE RODS	1 LOT = 1% OF FASTENERS OF EACH TYPE IN EACH PHE	1
C.5	TYPE VII	HEAT TRANSFER PLATES	1 LOT = 1% OF PLATES IN EACH PHE	1
		GASKETS (ALL TYPES)	1 LOT = 1% OF GASKETS OF EACH TYPE IN EACH PHE	1
		END PLATE GASKETS	NOS.	1
		FASTENERS INCLUDING TIE RODS	1 LOT = 1% OF FASTENERS OF EACH TYPE IN EACH PHE	1
C.6	TYPE VIII	HEAT TRANSFER PLATES	1 LOT = 1% OF PLATES IN EACH PHE	1
		GASKETS (ALL TYPES)	1 LOT = 1% OF GASKETS OF EACH TYPE IN EACH PHE	1
		END PLATE GASKETS	NOS.	1
		FASTENERS INCLUDING TIE RODS	1 LOT = 1% OF FASTENERS OF EACH TYPE IN EACH PHE	1
C.7	TYPE IX	HEAT TRANSFER PLATES	1 LOT = 1% OF PLATES IN EACH PHE	1
		GASKETS (ALL TYPES)	1 LOT = 1% OF GASKETS OF EACH TYPE IN EACH PHE	1
		END PLATE GASKETS	NOS.	1
		FASTENERS INCLUDING TIE RODS	1 LOT = 1% OF FASTENERS OF EACH TYPE IN EACH PHE	1
C.8	TYPE X	HEAT TRANSFER PLATES	1 LOT = 1% OF PLATES IN EACH PHE	1
		GASKETS (ALL TYPES)	1 LOT = 1% OF GASKETS OF EACH TYPE IN EACH PHE	1
		END PLATE GASKETS	NOS.	1
		FASTENERS INCLUDING TIE RODS	1 LOT = 1% OF FASTENERS OF EACH TYPE IN EACH PHE	1

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ANNEXURE- III B TO NIT REF NO-PE/PG/RTC/E-5598/2017, DTD-24.04.2017

RATE CONTRACT (WITHOUT CIF)

PLATE HEAT EXCHANGERS REV 01

SL NO	ITEM DESCRIPTION	UOM	ORDERED QUANTITY	EXPECTED QUANTITY OF SPARES AS PER DATASHEET A OF SECTION IA
A	PLATE HEAT EXCHANGER - MAIN SUPPLY			
A.1	TYPE III	NOS.	2	
A.2	TYPE IV	NOS.	6	
A.3	TYPE XI	NOS.	6	
A.4	TYPE XII	NOS.	6	
A.5	TYPE XIII	NOS.	3	
B	SERVICES AT SITE PG TEST AT SITE (CONSIDERING 1 SET PER PHE) (NOTE: 1SET = PG TEST FOR ONE PHE.)			
B.1	TYPE III	SET	1	
B.2	TYPE IV	SET	1	
B.3	TYPE XI	SET	1	
B.4	TYPE XII	SET	1	
B.5	TYPE XIII	SET	1	
C	MANDATORY SPARES EXPECTED SPARES FOR EACH PHE TYPE AS PER SPARE LIST INDICATED IN DATASHEET A AT SECTION IB OF SPECIFICATION.			
C.1	TYPE III	HEAT TRANSFER PLATES	1 LOT = 1% OF PLATES IN EACH PHE	20
		GASKETS (ALL TYPES)	1 LOT = 1% OF GASKETS OF EACH TYPE IN EACH PHE	200
		END PLATE GASKETS	NOS.	4
		FASTENERS INCLUDING TIE RODS	1 LOT = 1% OF FASTENERS OF EACH TYPE IN EACH PHE	1
C.2	TYPE IV	HEAT TRANSFER PLATES	1 LOT = 1% OF PLATES IN EACH PHE	120
		GASKETS (ALL TYPES)	1 LOT = 1% OF GASKETS OF EACH TYPE IN EACH PHE	180
		END PLATE GASKETS	NOS.	1
		FASTENERS INCLUDING TIE RODS	1 LOT = 1% OF FASTENERS OF EACH TYPE IN EACH PHE	60
C.3	TYPE XI	HEAT TRANSFER PLATES	1 LOT = 1% OF PLATES IN EACH PHE	1
		GASKETS (ALL TYPES)	1 LOT = 1% OF GASKETS OF EACH TYPE IN EACH PHE	1
		END PLATE GASKETS	NOS.	1
		FASTENERS INCLUDING TIE RODS	1 LOT = 1% OF FASTENERS OF EACH TYPE IN EACH PHE	1
C.4	TYPE XII	HEAT TRANSFER PLATES	1 LOT = 1% OF PLATES IN EACH PHE	1
		GASKETS (ALL TYPES)	1 LOT = 1% OF GASKETS OF EACH TYPE IN EACH PHE	1
		END PLATE GASKETS	NOS.	1
		FASTENERS INCLUDING TIE RODS	1 LOT = 1% OF FASTENERS OF EACH TYPE IN EACH PHE	1
C.5	TYPE XIII	HEAT TRANSFER PLATES	1 LOT = 1% OF PLATES IN EACH PHE	1
		GASKETS (ALL TYPES)	1 LOT = 1% OF GASKETS OF EACH TYPE IN EACH PHE	1
		END PLATE GASKETS	NOS.	1
		FASTENERS INCLUDING TIE RODS	1 LOT = 1% OF FASTENERS OF EACH TYPE IN EACH PHE	1


सुमीत साहय / SUMEET SAHAY
 ज्योतिषी (ग्रेड २-२) / Sr. Engineer (PG-I-2)
 भारत हेवी इलेक्ट्रिकल्स लिमिटेड / Bharat Heavy Electricals Ltd.
 प्लांट नं. २५, सेक्टर-१६ए, नोडा-२०१ ३०१
 Power Plant, Project Engineering Management
 Plant No. 25, Sector-16A, Noida-201 301

AMENDMENT NO. 1

**TECHNICAL SPECIFICATION
FOR
RATE CONTRACT
OF
PLATE HEAT EXCHANGERS**

**Specification No. : PE-TS-RC-179-N001 (REV. 0)
Vol II B**



**BHARAT HEAVY ELECTRICALS LIMITED
POWER SECTOR
PROJECT ENGINEERING MANAGEMENT
PPEI BUILDING, SECTOR 16 A
NOIDA - 201301**



**TECHNICAL SPECIFICATION FOR
RATE CONTRACT OF
PLATE HEAT EXCHANGERS**

SPECN. NO.:

PE-TS-RC-179-N001

AMENDMENT NO. 1

REV. NO.

0

DATE:

01.05.17

- 1.0 With reference to Sl. No. 1.6, Section-IB, Datasheet A, (page No. 8 to 44 of pdf file) of Technical Specification, please consider the Specification amended as below:

S. No	Clause as mentioned in Technical Specification	Amended Clause
1	For PHE Type I, Connection Pipe Size of Secondary Side = 450 NB	For PHE Type I, Connection Pipe Size of Secondary Side = 600 NB
2	For PHE Type II, Connection Pipe Size of Secondary Side = 300 NB	For PHE Type II, Connection Pipe Size of Secondary Side = 400 NB

All other specification requirements for Rate Contract of Plate Heat Exchangers (except for above), as specified in specification no. PE-TS-RC-179-N001, shall remain unchanged.