



Ref: E-6083/2018/03

Date:02/01/2019

**Corrigendum 03 to GLOBAL Tender Enquiry of GENERATOR CIRCUIT BREAKER for 2X660 MW
UDANGUDI SUPERCRITICAL STPP**

Our Ref:

- (i) Enq No.: - E-6083/2018 dated 30/11/2018
- (ii) Corrigendum 01: E-6083/2018/01 dated 20/12/2018
- (iii) Corrigendum 02: E-6083/2018/02 dated 21/12/2018

Subject: Amendment in BOQ cum price schedule and BHEL replies to Bidders' technical queries.

Sir,

Please note following with respect to subject tender enquiry: -

- 1.) There is amendment in BOQ Cum Price schedule. Line item indicating mandatory spares is added. Kindly ignore earlier BOQ cum price schedule and submit your best price in BOQ Cum Price Schedule Rev 01 only.
- 2.) Replies to bidder queries is as indicated below: -

Sr No	Bidder's Technical queries	BHEL Reply
01	We understand values mentioned at Sr no 1.04 (a) of data sheet-A at page no 22 of 38 is Circuit breaker withstand value and breaking capacity of circuit breaker will be designed as per clause no 4.17.0 and 4.4.0 of Sec-1 of technical specification and bidder need to mentioned these values at 1.05 (a) and 1.05 (b) in data sheet-A in line with clause 4.4.0 & 4.17.0	The value mentioned in Datasheet-A is the minimum value required. However, the bidder is required to establish the parameters as per calculations.
02	As per clause no 4.17.0 & 4.4.0 of Section-I of technical specification, 1. system side short circuit rating & Making Current teak 2. Generator side Short circuit rating & Making current peak need to submit with bid. Please let us know who will approve this calculation at tender stage so all bidder is at par. Would it be approved by owner or BHEL ? Also, please confirm that at detailed engineering stage we need to approve this calculation ?	The submitted calculations shall be reviewed at tender stage. The calculations based on IEEE are bidder specific as per the design of GCB and the values may differ.



03	As per Sr no 2.0 (h) of clause 8.0.0 of section-I of technical specification, we understand operating mechanical type mentioned is only acceptable. Please confirm our understanding is correct.	Motorized or hydraulic spring charged mechanism is acceptable as per Datasheet-A.
04	As per your main BOQ, there is no mandatory spares requirement. However, this is separate tab attached to same file with your RFQ. Please confirm this scope is not required and if required please insert line item in main BOQ and kind request you to confirm our comments against each mandatory spare items.	Mandatory spares are part of main BOQ and price evaluation. Revised unpriced schedule is being issued as corrigendum to the specification.
05	CONTINUOUS ONLINE MONITORING DEVICE FOR GENERATOR CIRCUIT BREAKER: Please let us know which all monitoring you need to include in this offering as specificaiton is silent on this.	Bidder's standard design is acceptable.
06	SPECIAL TOOLS AND TACKLES: We understand this is as per manufacturer's standard as per Anneuxre-A IV). Please confirm.	Confirmed.

All other terms and condition shall remain unchanged as per NIT and corrigendum if any.

With regards
For & on behalf of BHEL

(AKASH VERMA)
Sr Engineer/ PG-I
PEM, BHEL, Noida

2 X 660 MW UDANGUDI TPS
BOQ-CUM-PRICE SCHEDULE OF GENERATOR CIRCUIT BREAKER-REV 01
ENQUIRY NUMBER:-E-6083/2018 DATED 30.11.2018

SL. NO.	ITEM CODE	MAIN ITEM DESCRIPTION	UNIT	QTY.	HSN CODE (TO BE FILLED BY THE BIDDER FOR EACH ITEM)	UNIT EX- WORKS PRICE (DULY PACKED) (INR)	TOTAL EX- WORKS PRICE (DULY PACKED) (INR)	FREIGHT CHARGES		TOTAL PRICES (Ex works + freight) (INR)	APPLICABLE GST RATE IN % ON (TOTAL EX WORKS + FREIGHT) BOTH (INR)		TOTAL PRICE F.O.R Prices with taxes (INR)	TOTAL PRICE F.O.R Prices with taxes in words	UNIT C&F CHENNA I PORT	TOTAL C&F CHENNA I PORT	REMARKS
								@ % OF TOTAL EX WORKS	AMOUNT IN (INR)		GST RATE IN % ON(TOTAL EX WORKS + FREIGHT)	TOTAL AMOUNT IN (INR)					
1.0	510-11003-A	GENERATOR CIRCUIT BREAKER INCLUDING ALL ASSOCIATED SERIES ISOLATOR, EARTH-SWITCHES, SHORT CIRCUITING CONNECTION LINK, SURGE CAPACITORS, OTHER ACCESSORIES/ITEMS AS PER SPEC AND CONTROL PANEL	SET	2													
2.0	510-11042-A	CONTINUOUS ONLINE MONITORING DEVICE FOR GENERATOR CIRCUIT BREAKER	SET	2													
3.0	510-11007-A	START-UP AND COMMISSIONING SPARES	SET	2													MINIMUM ITEMS FOR EACH GCB INDICATED IN ANNEXURE-A(SECTION I). BIDDER TO FURNISH THE COMPLETE LIST AND QUOTE AS PER REQUIREMENT.
4.0	510-11008-A	SUPERVISION OF ERECTION, TESTING AND COMMISSIONING															
4.0(a)		CHARGES PER VISIT	VISIT	2													REFER NOTE-1 & 2
4.0(b)		MANDAYS CHARGES	DAYS	8													REFER NOTE-1 & 2
5.0	510-11011-A	SPECIAL TOOLS AND TACKLES	LOT	1													BIDDER TO FURNISH THE COMPLETE LIST FOR 2 GCBs AND QUOTE AS PER REQUIREMENT.
6.0	510-11006-A	OPERATION & MAINTENANCE SPARES (RECOMMENDED) FOR 3 YEAR OF PLANT OPERATION	LOT	2													REFER ANNEXURE-A(SECTION-I) FOR O/M SPARES LIST FOR EACH GCB.
7.0	510-11012-A	TRAINING OF 6 Nos. ENGINEERS	SET	1													FOR OPERATION, TROUBLESHOOT AND MAINTENANCE AS PER CLAUSE 10.00.00 (SECTION-II, VOLUME-II). ALSO REFER NOTE 4.
8.0	510-11000-B	MANDATORY SPARES	LOT	1													REFER ANNEXURE-1 FOR DETAILED LIST
		TOTAL															

NOTES

- 1 FOR EACH GCB 1(ONE) VISIT AND 4(FOUR) MANDAYS TO BE CONSIDERED. THE PRICES SHALL BE INCLUSIVE OF CHARGES OF AIRFARE (TO & FRO), BOARDING, LODGING, VISA, MEDICAL, INSURANCE ETC.
- 2 AMOUNT PAYABLE PER VISIT = VISIT CHARGES AS PER SL. NO. 4.0(a) ABOVE (+) UNIT PRICE FOR MANDAYS CHARGES AS PER SL. NO. 4.0(b) ABOVE (x) NO. OF DAYS AT SITE(TO BE CERTIFIED BY BHEL SITE)
- 3 WHEREEVER SET IS INDICATED ABOVE, IT MEANS THE TOTAL PARTS/ACCESSORIES REQUIRED TO REPLACE THE PARTICULAR ITEM FOR A GIVEN EQUIPMENT.
- 4 COST OF AIRFARE (TO & FRO), BOARDING, LODGING, VISA, MEDICAL, INSURANCE SHALL BE BORNE BY PURCHASER.
- 5 **BIDDER TO QUOTE FOR ALL INDIVIDUAL LINE ITEMS SEPARATELY. PRICE OF INDIVIDUAL LINE ITEMS NOT TO BE COMBINED AT ONE LINE ITEM.**

**2 X 660 MW UDANGUDI TPS
MANDATORY SPARES LIST (ANNEXURE-1)
ENQ NO-E-6083/2018 DATED 30.11.2018**

SL. NO.	ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY FOR 2 UNITS	HSN CODE (TO BE FILLED BY THE BIDDER FOR EACH ITEM)	UNIT EX-WORKS PRICE (DULY PACKED) (INR)	TOTAL EX-WORKS PRICE (DULY PACKED) (INR)	INDIAN BIDDERS		FOREIGN BIDDERS				REMARKS			
								FREIGHT CHARGES		TOTAL PRICES (Ex works + freight) (INR)	APPLICABLE GST RATE IN % ON (TOTAL EX WORKS + FREIGHT) BOTH (INR)		TOTAL PRICE F.O.R Prices with taxes (INR)		TOTAL PRICE F.O.R Prices with taxes in words	UNIT C&F CHENNAI PORT	TOTAL C&F CHENNAI PORT
								@ % OF TOTAL EX WORKS	AMOUNT IN (INR)		GST RATE IN % ON(TOTAL EX WORKS +	TOTAL AMOUNT IN (INR)					
5.0	510-11000-B	MANDATORY SPARES															
1.0		Fixed arcing contact	SET	2													
2.0		Moving arcing contact	SET	2													
3.0		Fixed load contact	SET	2													
4.0		Moving load contact	SET	2													
5.0		Operating mechanism	SET	2													
6.0		Closing coils	SET	2													
7.0		Tripping coil	SET	2													
8.0		Closing springs	SET	2											If applicable		
9.0		Tripping springs	SET	2											If applicable		
10.0		Circuit Breaker auxiliary contact	SET	2													
11.0		Gaskets	SET	2													
12.0		Support Insulator	SET	2													
13.0		Complete interrupting chamber with surge capacitor, disconnector switch, earth switches of one pole	Nos.	2													
14.0		Surge Capacitor	SET	2													
15.0		Auxiliary Switches	SET	2													
16.0		Relays	SET	2													
17.0		Position indicators	SET	2													
18.0		Pressure Gauge and Pressure switches	SET	2													
19.0		Density monitor	SET	2													
20.0		SF6 Filters (If applicable)	SET	2													
21.0		Valves (If applicable)	SET	2													
22.0		Spring charging motor	SET	2													
23.0		Spring charging motor micro switch	SET	2													
24.0		Motor for disconnector & earth switch	SET	2													

NOTES

1 WHEREEVER SET IS INDICATED ABOVE, IT MEANS THE TOTAL PARTS/ACCESSORIES REQUIRED TO REPLACE THE PARTICULAR ITEM FOR A GIVEN EQUIPMENT.

2 BIDDER TO QUOTE FOR ALL INDIVIDUAL LINE ITEMS SEPARATELY. PRICE OF INDIVIDUAL LINE ITEMS NOT TO BE COMBINED AT ONE LINE ITEM.