## BOQ FOR DC BATTERY CHARGER PACKAGE Project-1 x 660 MW BHUSAWAL TPS Enquiry No.- PE/PG/BHU/E-6647/2021 Dtd. 26.05.2021

Note-Bidders to quote value in highlighted box only.

**Un-Price Bid Format** 

VENDOR													
S. No.	Item code	Item Description	HSN/SAC CODE	Quantity	Unit	Unit Ex-Works Price (Rs.)	Total Ex-Works Price (Rs.)	Freight % of Total Ex-works Price (in <del>%)</del>	Freight Charges (Rs.)	Rate of GST (%)	GST Amount ON Total Ex- works Price & Freight (Rs.)	Total FOR Site Price (Rs.)	Remarks
1	508-12010-A	220V FLOAT-CUM-BOOST CHARGER1, 220V DC, 650A (MAIN PLANT)	8504	2	NOS								LEAD ACID BATTERY (2X1500AH)
2	508-12012-A	220V FLOAT-CUM-BOOST CHARGER2, 220V DC, 50A (RAW WATER & COOLING WATER SYSTEM)	8504	1	NOS								LEAD ACID BATTERY (250AH)
3	508-12007-A	220V FLOAT CHARGER1, 220V DC, 650A (MAIN PLANT)	8504	2	NOS								LEAD ACID BATTERY (2X1500AH)
4	508-12008-A	220V FLOAT CHARGER2, 220V DC, 50A (RAW WATER & COOLING WATER SYSTEM)	8504	1	NOS								LEAD ACID BATTERY (250AH)
5	508-12001-A	BATTERY FUSE WITH SH STEEL ENCL SUPP STR											
5.1		BATTERY FUSE BOX (MAIN PLANT)	8504	2	NOS								BATTERY FUSE BOX OF ADEQUATE RATING AS PER LOAD DUTY CYCLE (ANNEXURE-II OF SPECIFICATION). <b>MINIMUM RATING 1250A.</b>
5.2		BATTERY FUSE BOX (RAW WATER & COOLING WATER SYSTEM)	8504	1	NOS								BATTERY FUSE BOX OF ADEQUATE RATING AS PER LOAD DUTY CYCLE (ANNEXURE-II OF SPECIFICATION). <b>MINIMUM RATING 100A.</b>
6.1	508-12005-A	DISCHARGE RESISTOR  DISCHARGE RESISTOR (MAIN PLANT)	8504	1	NOS								DISCHARGE RESISTOR WITH SHUNT SUITABLE FOR 10HRS DISCHARGE RATE FOR 3000AH LEAD ACID BATTERY (TWO PARRALLEL STRINGS OF1500AH)
6.2		DISCHARGE RESISTOR (RAW WATER & COOLING WATER SYSTEM)	8504	1	NOS								DISCHARGE RESISTOR WITH SHUNT SUITABLE FOR 10HRS DISCHARGE RATE FOR 250AH Lead Acid battery-SINGLE STRING
7.1		E & C SPARES  E & C SPARES FOR FLOAT CUM BOOST  CHARGER (MAIN PLANT) AT BOQ S. NO. 1		1	SET								
7.1.1		FUSE LINK WITHOUT HOLDER	8504		1100								
a b		AC I/P HRC FUSE LINK GLASS FUSE	8504 8504	6	NOS NOS								
C		CONTROL HRC FUSE LINK	8504	6	NOS								
d		RECTIFIER FUSE LINK	8504	6	NOS								
e		FILTER CAPACITOR FUSE LINK	8504	6	NOS								
7.1.2		DC O/P FUSE LINK INDICATING LAMP	8504 8504	6	NOS								
a 7.1.2		AC I/P LAMP RED COLOR	8504	6	NOS								
b		AC I/P LAMP YELLOW COLOR	8504	6	NOS								
c		AC I/P LAMP BLUE COLOR	8504 8504	6	NOS NOS								
a		DC O/P LAMP	8504	Ь	NO5								

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VENDOR **GST Amount** Freight % of ON Total Ex-**Total FOR Site** Unit Ex-Works Total Ex-Works Freight Charges Rate of GST Item Description S. No. HSN/SAC CODE Quantity Unit Total Ex-works Item code Remarks Price (Rs.) Price (Rs.) (Rs.) (%) works Price & Price (Rs.) Price (in %) Freight (Rs.) E & C SPARES FOR FLOAT CUM BOOST 7.2 **CHARGER (RAW WATER & COOLING WATER** 1 SET SYSTEM) AT BOQ S. NO. 2 7.2.1 FUSE LINK WITHOUT HOLDER 8504 AC I/P HRC FUSE LINK 8504 NOS GLASS FUSE 8504 NOS NOS c d CONTROL HRC FUSE LINK 8504 8504 RECTIFIER FUSE LINK NOS e f 7.2.2 FILTER CAPACITOR FUSE LINK 8504 NOS DC O/P FUSE LINK 8504 6 NOS INDICATING LAMP 8504 a b AC I/P LAMP RED COLOR 8504 NOS AC I/P LAMP YELLOW COLOR 8504 6 NOS c d AC I/P LAMP BLUE COLOR 8504 NOS DC O/P LAMP 8504 NOS E & C SPARES FOR FLOAT CHARGER (MAIN 7.3 1 SET PLANT) AT BOQ S. NO. 3 7.3.1 a FUSE LINK WITHOUT HOLDER 8504 8504 AC I/P HRC FUSE LINK NOS b c d GLASS FUSE 8504 8504 NOS CONTROL HRC FUSE LINK NOS RECTIFIER FUSE LINK 8504 8504 NOS FILTER CAPACITOR FUSE LINK e f NOS DC O/P FUSE LINK 8504 NOS 7.3.2 INDICATING LAMP 8504 a b AC I/P LAMP RED COLOR 8504 6 NOS AC I/P LAMP YELLOW COLOR 8504 NOS c d AC I/P LAMP BLUE COLOR 8504 6 NOS DC O/P LAMP 8504 NOS E & C SPARES FOR FLOAT CHARGER (RAW 7.4 WATER & COOLING WATER SYSTEM) AT BOQ SET 1 S. NO. 4 FUSE LINK WITHOUT HOLDER 7.4.1 8504 AC I/P HRC FUSE LINK 8504 8504 NOS NOS a b GLASS FUSE c d CONTROL HRC FUSE LINK 8504 8504 NOS RECTIFIER FUSE LINK NOS FILTER CAPACITOR FUSE LINK 8504 NOS DC O/P FUSE LINK 8504 NOS 7.4.2 INDICATING LAMP 8504 а AC I/P LAMP RED COLOR 8504 NOS b AC I/P LAMP YELLOW COLOR 8504 NOS AC I/P LAMP BLUE COLOR NOS c d 8504 DC O/P LAMP 8504 NOS 8 508-12024-A Type test on charger HEAT RUN TEST TO BE CONDUCTED ON EACH CHARGER (i.e. TEST TO 8.1 Heat run test on current limiting value 9987 6 NOS CONDUCTED ON CHARGERS AT BOQ S.NO. 1-on both chargers, S.no. 3-on both chargers, S.no.2 & 4. Total=6 no's charger)

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POTENTIOMETER OF EACH TYPE & RATING ( PULSE

TRANSFORMER )

8504

1 SET

Refer Qty Column

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**Un-Price Bid Format** 

VENDOR GST Amount Freight % of Total FOR Site Rate of GST ON Total Ex-Unit Ex-Works Total Ex-Works Freight Charges S. No. Item code **Item Description** HSN/SAC CODE Quantity Unit Total Ex-works Remarks Price (Rs.) Price (Rs.) (Rs.) (%) works Price & Price (Rs.) Price (in %) Freight (Rs.) SUPERVISION OF E&C 508-12020-A LOT 1 LUMP SUM CHARGES PER VISIT FOR ENGINEER 9.1 9987 3 VISIT REFER NOTE 1,2, 3 & 5 (EXCEPT DAILY CHARGES) 9.2 LUMP SUM DAILY CHARGES FOR ENGINEER 9987 12 DAYS REFER NOTE 1,2,3 & 5 508-12000-B MANDATORY SPARES 10 MANDATORY SPARES FOR FLOAT CUM BOOST 10.1 SET CHARGER (MAIN PLANT-650A) AT BOQ S. NO. 1 Electronic Cards of each type and rating (with all 8504 1 SET Refer Qty Column а components mounted) 25% of total capacity for each type and b FUSES OF EACH TYPE & RATING 8504 Refer Qty Column rating of fuses used in system. С SCR OF EACH TYPE AND RATING 8504 2 No Refer Qty Column d BLOCKING DIODE OF EACH TYPE AND RATING 8504 Refer Qty Column 1 Set POTENTIOMETER OF EACH TYPE & RATING ( PULSE е 8504 1 SET Refer Qty Column TRANSFORMER ) MANDATORY SPARES FOR FLOAT CUM BOOST 10.2 **CHARGER (RAW WATER & COOLING WATER** SET 1 SYSTEM- 50A) AT BOO S. NO. 2

Electronic Cards of each type and rating (with all а 8504 1 SET Refer Qty Column components mounted) 25% of total capacity for each type and FUSES OF EACH TYPE & RATING 8504 Refer Qty Column rating of fuses used in svstem. SCR OF EACH TYPE AND RATING 8504 Refer Qty Column С 2 no d BLOCKING DIODE OF EACH TYPE AND RATING 8504 1 set Refer Qty Column

Project-1 x 660 MW BHUSAWAL TPS

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S. No.	. Item code	Item Description	HSN/SAC CODE	Quantity	Unit	Unit Ex-Works Price (Rs.)	Total Ex-Works Price (Rs.)	Freight % of Total Ex-works Price (in <del>%)</del>	Freight Charges (Rs.)	Rate of GST (%)	GST Amount ON Total Ex- works Price & Freight (Rs.)	Total FOR Site Price (Rs.)	Remarks
10.3		MANDATORY SPARES FOR FLOAT CHARGER (MAIN PLANT-650A) AT BOQ S. NO. 3		1	SET								
а		Electronic Cards of each type and rating (with all components mounted)	8504	1 SET	Refer Qty Column								
b		FUSES OF EACH TYPE & RATING	8504	25% of total capacity for each type and rating of fuses used in system.	Refer Qty Column								
С		SCR OF EACH TYPE AND RATING	8504	2 No	Refer Qty Column								
d		BLOCKING DIODE OF EACH TYPE AND RATING	8504	1 Set	Refer Qty Column								
е		POTENTIOMETER OF EACH TYPE & RATING ( PULSE TRANSFORMER )	8504	1 SET	Refer Qty Column								
10.4		MANDATORY SPARES FOR FLOAT CHARGER (RAW WATER & COOLING WATER SYSTEM- 50A) AT BOQ S. NO. 4		1	SET								
а		Electronic Cards of each type and rating (with all components mounted)	8504	1 SET	Refer Qty Column								
b		FUSES OF EACH TYPE & RATING	8504	25% of total capacity for each type and rating of fuses used in system.	Refer Qty Column								
С		SCR OF EACH TYPE AND RATING	8504	2 no	Refer Qty Column								
d		BLOCKING DIODE OF EACH TYPE AND RATING	8504	1 set	Refer Qty Column								
е		POTENTIOMETER OF EACH TYPE & RATING ( PULSE TRANSFORMER )	8504	1 SET	Refer Qty Column								
		GRAND TOTAL (RS.)											

## NOTES:

- 1) AMOUNT PAYABLE FOR ENGINEER PER VISIT TO SITE = VISIT CHARGES AS PER SL. NO. 9.1 ABOVE + (DAILY CHARGES AS PER SL. NO. 9.2 ABOVE X NO. OF DAYS AT SITE) (TO BE CERTIFIED BY BHEL SITE).
- 2) THE VISIT CHAGRES SHALL BE INCLUSIVE OF CHARGES OF AIR FARE/TRAIN FARE , BOARDING/LODGING, LOCAL CONVEYANCE, MEDICAL , INSURANCE ETC.
- 3) SITE VISIT CHARGES SHALL BE APPLICABLE FOR ANY VISIT MADE BY VENDOR AT SITE AFTER RECEIVING THE INSTRUCTION FROM BHEL FOR DEPUTATION OF VENDOR REPRESENTATIVE. THE VISIT CAN BE CALLED FOR SUPERVISION OF COMMISSIONING & TESTING ETC.
- 4) ALL CABLE GLANDS & LUGS AT CHARGER, FUSE BOX & DISCHARGE RESISTOR END ARE IN BIDDER'S SCOPE.
- 5) "Total quoted ex-works price against Supervision of E&C (VISIT CHARGES & MANDAYS CHARGES) should not exceed 2% of the total contract value."
- 6) For Mandatory spares , please quoteTotal Ex-works Price.