

**2 x 500 MW TUTICORIN FGD TPS
BOQ FOR DC BATTERY CHARGER PACKAGE**

DATE : 27.09.2021

S. No.	Item code	Item Description	Unit	Quantity	Remarks	UNIT EX- WORKS
1	508-12010-A	220V FLOAT-CUM-BOOST CHARGER1, 220V DC, 400A (FGD PLANT)	NOS	2	LEAD ACID BATTERY (1820AH)	
2	508-12007-A	220V FLOAT CHARGER1, 220V DC, 400A (FGD PLANT)	NOS	2	LEAD ACID BATTERY (1820AH)	
3	508-12001-A	BATTERY FUSE WITH SH STEEL ENCL SUPP STR				
3.1		BATTERY FUSE BOX (FGD PLANT)	NOS	2	BATTERY FUSE BOX OF ADEQUATE RATING AS PER LOAD DUTY CYCLE (ANNEXURE-II OF SPECIFICATION). MINIMUM RATING 400A.	
4	508-12005-A	DISCHARGE RESISTOR				
4.1		DISCHARGE RESISTOR (MAIN PLANT)	NOS	1	DISCHARGE RESISTOR WITH SHUNT SUITABLE FOR 10HRS DISCHARGE RATE FOR 1820AH LEAD ACID BATTERY	
5	508-12027-A	PORTABLE SINGLE CELL BOOST CHARGER	NOS	1	0-3V DC, 285A Charger	
6	508-12006-A	E & C SPARES				
6.1		E & C SPARES FOR FLOAT CUM BOOST CHARGER (MAIN PLANT) AT BOQ S. NO. 1	SET	1		
6.1.1		FUSE LINK WITHOUT HOLDER				
a		AC I/P HRC FUSE LINK	NOS	6		
b		GLASS FUSE	NOS	6		
c		CONTROL HRC FUSE LINK	NOS	6		
d		RECTIFIER FUSE LINK	NOS	6		
e		FILTER CAPACITOR FUSE LINK	NOS	6		
f		DC O/P FUSE LINK	NOS	6		
6.1.2		INDICATING LAMP				
a		AC I/P LAMP RED COLOR	NOS	6		
b		AC I/P LAMP YELLOW COLOR	NOS	6		
c		AC I/P LAMP BLUE COLOR	NOS	6		
d		DC O/P LAMP	NOS	6		
6.2		E & C SPARES FOR FLOAT CHARGER (FGD PLANT) AT BOQ S. NO. 2	SET	1		
6.2.1		FUSE LINK WITHOUT HOLDER				
a		AC I/P HRC FUSE LINK	NOS	6		
b		GLASS FUSE	NOS	6		
c		CONTROL HRC FUSE LINK	NOS	6		
d		RECTIFIER FUSE LINK	NOS	6		
e		FILTER CAPACITOR FUSE LINK	NOS	6		
f		DC O/P FUSE LINK	NOS	6		
6.2.2		INDICATING LAMP				
a		AC I/P LAMP RED COLOR	NOS	6		
b		AC I/P LAMP YELLOW COLOR	NOS	6		
c		AC I/P LAMP BLUE COLOR	NOS	6		
d		DC O/P LAMP	NOS	6		
7	508-12024-A	Type test on charger				

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7.1		Heat run test on current limiting value	NOS	4	HEAT RUN TEST TO BE CONDUCTED ON EACH CHARGER (i.e. TEST TO BE CONDUCTED ON CHARGERS AT BOQ S.NO. 1-on both chargers,S.no.2-on both chargers, Total=4 no's charger)	
8	508-12020-A	SUPERVISION OF E&C	1	LOT		
8.1		LUMP SUM CHARGES PER VISIT FOR ENGINEER (EXCEPT DAILY CHARGES)	VISIT	2	REFER NOTE 1,2 & 3	
8.2		LUMP SUM DAILY CHARGES FOR ENGINEER	DAYS	8	REFER NOTE 1,2 & 3	
9	508-12000-B	MANDATORY SPARES				
		MANDATORY SPARES FOR FLOAT CUM BOOST CHARGER (FGD PLANT-400A) AT BOQ S. NO. 1				
1		Electronic Module, PCB, Cards of each type and rating (with all components mounted)	-	1 Set		
2		Fuses/ MCB of each type and rating	-	50% of total quantity.		
3		SCR of each type and rating	-	2 Nos.		
4		Blocking Diode of each type and rating	-	2 Nos. of each type		
5		Potentiometer of each type and rating	-	1 Set		
6		Pulse transformer	-	1 Set of each type		
7		Main and Aux. transformer	-	1 no of each type and rating		
8		Capacitor	-	2 no of each type and rating		
9		Meters (DC Ammeter, DC Voltmeter, AC Ammeter, AC Voltmeter)	-	1 No of each type		
10		Transducer	-	1 No of each type		
11		Selector Switch	-	1 no of each type		
12		Control Switch	-	1 no of each type		
13		Current transformer(if applicable)	-	1 no of each type and rating		
14		Push button complete set	-	1 no of each type		
15		Annunciation window	-	1No.		

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16		Indicating Lamps (LED)	-	1 Nos of each type.		
17		Contactors of each type	-	2 Nos.		
18		Coils for each type of Contactor	-	2 Nos.		
19		Main & Aux Contact sets	-	5 Nos		
20		Over load relays of each type	-	1 No.		
21		Filter condenser and Filter Fuses	-	2 sets		
22		Current Regulators of each Type	-	1 set		

NOTES :

1) AMOUNT PAYABLE FOR ENGINEER PER VISIT TO SITE = VISIT CHARGES AS PER SL. NO. 8.1 ABOVE + (DAILY CHARGES AS PER SL. NO. 8.2 ABOVE X NO. OF DAYS AT SITE) (TO BE CERTIFIED BY BHEL SITE).

2) THE VISIT CHARGES 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.