

Name of Work: DA set panel (SBC-2) along with accessories for 25 nos. Power Car

SN	Description of Work	QPC /PC	Total Qty	Unit	Unit Rate including GST	Total Amount	Remarks
1	Servicing testing & Commissioning work of whole Power Panel DA Set including ACB, Feeder contacor, UVL contacor, AEL,WP/NWP contacor etc.	2	50	No.	16286.00	814300.00	Considered @100% of total equipments
2	Supply, fitment & testing of 800 Amps Air Circuit Breaker.	2	25	No.	195449.00	4886225.00	Considered @50% of total equipments
3	Repairing of ACB	2	25	No.	44257.00	1106425.00	Considered @50% of total equipments
4	Supply, fitment & testing of AEL/FEL Relay	4	50	No.	6702.00	335100.00	Considered @50% of total
5	Supply, fitment & testing of FOL Relay.	2	25	No.	7819.00	195475.00	Considered @50% of total equipments
6	Supply, fitment & testing of UV Relay.	2	25	No.	7819.00	195475.00	Considered @50% of total equipments
7	Supply, fitment & testing of 3-core Potential transformer, 300 VA, 750/415 AC.	2	38	No.	14954.00	568252.00	Considered @75% of total equipments
8	Supply, fitment & testing of Push Button (Red/Green as per need basis)	20	250	No.	422.00	105500.00	Considered @50% of total equipments
9	Supply, fitment & testing of CT, 500/5 Amps.	12	75	No.	6354.00	476550.00	Considered @25% of total equipments
10	Supply, fitment & testing of 125 AMP, HT HRC fuse, SIBA-Make	12	150	No.	4367.00	655050.00	Considered @50% of total equipments
11	Supply, fitment & testing of HRC fuse base for HT HRC fuse, 125 Amps rating.	12	15	No.	2714.00	40710.00	Considered @ 5 % of total equipments
12	Supply , fitment & testing of 3-pole 750/630 Amps feeder connector with 4 NO + 4 NC Add on block, ABB/Schneider (for K01/K02/K03/HOG1/HOG2 contacor)	5	80	No.	144926.00	11594080.00	Considered @64% of total equipments
13	Repairing of Feeder Contacor	5	45	No.	2935.00	132075.00	Considered @36% of total equipments
14	Supply, fitment & testing of Hooter.	2	10	No.	1126.00	11260.00	Considered @20% of total equipments
15	Supply, fitment & testing of AR Relay/AFR-Relay/LOP Relay/CFR Relay.	10	50	No.	2402.00	120100.00	Considered @20% of total equipments
16	Supply, fitment & testing of WP/NWP contacor (K-04. K-05, K- 06 & K-07)	4	75	No.	42695.00	3202125.00	Considered @75% of total equipments
17	Repairing of WP/NWP contacor	4	25	No.	17368.00	434200.00	Considered @25% of total equipments
18	Supply, fitment & testing of Alternator ON Indication Transformer, 100VA, 750/24V	2	10	No.	15446.00	154460.00	Considered @20% of total equipments
19	Supply, fitment & testing of Feeder Copper Bus Bar set	6	15	No.	155579.00	2333685.00	Considered @10% of total equipments
20	supply, fitment and testing of Multi-function energy meter 5A or 1A CT input for LV or HV networks AC or DC Aux supply .Measurement & display U,V,I Ln ,P, Q, S, PF,F,Ea,Er &Es . THD for V & I with lead bar graph in 96x96 sq mm. Flush mounted case with six direct access keys & backlit LCD , Accuracy Class 1.0 as per RCF SPEC EDTS 103 Rev -D Amd-7. MAKE/BRAND: MAKE/BRAND: As approved by RDSO/BOM	2	37	No.	18489.00	684093.00	Considered @75% of total equipments
21	Supply, fitment and testing of auxiliaries contacors with their Add-on- Block.	2	25	No.	3257.00	81425.00	Considered @50% of total equipments
22	DC moving Coil 90 degree panel voltmeter range 0- 50V as per model M-79 of M/s Meco conf. to IS:1248/83, suitable for starting Battery charger of Rajdhani/ Shatabdi Power Cars. Make/Brand: YOKINS	2	25	No.	521.00	13025.00	Considered @50% of total equipments
23	Ammeter 0-600 AMP (AC) - Analog ,Range of measurement 0 to 600 Volt DC Amp., Size of the meter (in mm x in mm) 96 x 96	2	15	No.	1675.00	25125.00	Considered @30% of total equipments

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24	Digital Ammeter with LED display, size 96 sq.mm, 0- 600 A AC,CTR, 1A/5A, PROGRAMMABLE, 50HZ, CL1, True RMS Aux.-(12-48 V DC), 4 digit, 3 line, 7 segment display .Make- YOKINS, model-Y-9-3A3 or similar specification. Make- AE/ Muffler +zeigier/ Rishabh/L&T/YOKINS. (RDSO approval sources makes only acceptable). Spec: RDSO/SPEC/PE/TL/0195-2019 (REV.0).	2	25	No.	3250.00	81250.00	Considered @50% of total equipments
25	Description:- DIGITAL FREQUENCY METER NET 1 750 V AC, 50 HZ, CLASS 0.2. TRUE RMS, AUXILLIARY SUPPLY - 24 V DC 4 DIGIT 3 ROW 7 SEGMENT DISPLAY - ICF ANNEXURE - B TO RCF SPECIFICATION EDTS -103, REV. D, AMDT-7 WITH RDSO MODIFICATION SHEET RDSO/PE/MS/AC-0051-2011, REV.02, AMD-1 MODEL Y9 Hz OF YOKINS MAKE OR SIMILAR IN AE OR MULDER+ZEIGLER OR RISHAB OR L&T MAKE: MECO	2	38	No.	2943.00	111834.00	Considered @75% of total equipments
26	Digital Voltmeter with LED display size 96 sq. mm, 0- 800 V AC, CL1, True RMS, Aux. supply- (12-48 V DC), 4 digit, 3 line, 7 segment display. Make- YOKINS, model no.-Y-9-3V3 or similar specification as per RDSO/SPEC/PE/TL/0195-2019(REV.0). Make: AE / Muller+Zeigler / Rishabh / L&T/ Yokins for LHB Power car.	2	38	No.	2383.00	90554.00	Considered @75% of total equipments
27	VOLTMETER RANGE 0 TO 800 VOLT AC, SIZE- 72 X 72 AS PER AE MODEL ZW720-800V; 800V AC OR EQUIVALENT, MAKE: AE/ MULLER+ZEIGLER /RISHABH / L&T / YOKINS, CONFORMING TO RDSO SPEC. NO. RDSO/PE/SPEC/AC/ 0184 -2015(REV.0)	6	90	No.	1022.00	91980.00	Considered @60% of total equipments
28	ABB MAKE ACB MOUNTING PLATE PRODUCT CODE : 1SDA038339R1 AND UNDER VOLTAGE RELAY (380/400V) PRODUCT CODE: 1SDA038312R1 FOR AIR CIRCUIT BREAKER OF HIGH CAPACITY POWER CARS. MAKE ABB	2	25	No.	27150.00	678750.00	Considered @50% of total equipments
29	Solid state relay for control safety loop, DC3-32 V conforming to RCF specification no. EDTS 103 Rev-D, Am-7. Material is RD0605-D of M/s Carlo Gavazi, ABB, Simens	2	50	No.	13493.00	674650.00	Considered @100% of total equipments
30	Power contactor, 3 pole 110 Amps, operational voltage 1000 V with auxiliary contacts 2 NO + 2 NC & terminal shrouds conforming to IS 13947 (Pt - 4) - 93 Coil voltage 415 V of Siemens catalogue no. 3TF 50 - 02 - OA -RO (or) ABB catalogue no. A110 - 30 - 11 with Aux. contact blocks (or) Schneider Make acceptable: Siemens, ABB,Scheinder	4	30	No.	26402.00	792060.00	Considered @30% of total equipments
31	Supply, fitment & testing of Power Contactor for Switch Board Cabinet of LHB Power car; ABB CAT No. EK 210-40-11; 415 Volt, RC-EH300/415 or equivalent with 02 NO & 02 NC block as per RCF spec no. EDTS-103, Rev-D, Amd-1. Make: ABB/Siemens/Schneider	2	25	No.	47826.00	1195650.00	Considered @50% of total equipments
32	Contactor 3 pole , 24V DC, 50Amps suitable for starter battery charging control panel for use in DG set equipped in LHB power car as per EDTS-116 Rev-A.	2	38	No.	8820.00	335160.00	Considered @75% of total equipments
Total						32216603.00	
Average Cost for one (01) Power Car						1288664.12	