



MAHATRANSCO

MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LIMITED

Name of Office	Office of the Executive Engineer,
Office Address	765kV Sub-Station Ektuni Division MSETCL, Aurangabad. Address: 765/765kV Sub-Station Ektuni, Ektuni, Aurangabad-III, Pin 431121
Contact No.	(O) – 8554995265; 8554995269
Email Id	ee2160@mahatransco.in/ ee765kvektuni@gmail.com;
Website	www.mahatransco.in

No. EE/765kV /Ektuni/TS/no.525

Date :- 01.11.2023

E-ENQUIRY

Sub: E-Enquiry for work of AMC for maintenance of battery sets along with supply of spares at 765kV RS Division, Ektuni .

Dear Sirs,

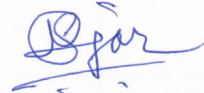
Please quote your lowest rates for following work subject to following Terms and Conditions stipulated below. On or before 09.11.2023 14:00 hrs With following terms and conditions.

TERMS & CONDITIONS :

1. Firm should be a registered company under the Indian Companies Act 1956 and should have valid Income Tax clearance certificate from Income tax department, valid GST registration certificates from appropriate Tax Authorities.
2. Qualifying Conditions: Contractor should have following documents, to be submitted with sealed envelop to Executive Engineer, 765kV R.S. Division, Ektuni . Gut no. 76, Ektuni, Tq. Paithan. Dist Aurangabad. Contact Person No. 8554994585
 - a. Valid Electrical Contractor license
 - b. Proof of registration of firm under Bombay Shop & Establishment Act
 - c. Proof of GST Registration
 - d. Proof of PAN No
 - e. Proof of experience executed similar type of work carried out at EHV S/s.
3. Name and address of vendor and recipients should be introduced on envelop.
4. The e-enquiry will be opened in the office of the Executive Engineer, 765kV R.S. Division , Ektuni , MSETCL, Aurangabad.
5. Price should be quoted in figures as well as in words without any overwriting.
6. Offer will be valid for 12 Months.
7. Work will be executed as and when required by the undersigned.
8. Any damage to any properties during execution of work shall be at the contractor account and cost of such damage will be recovered from him.
9. The contractor should observe necessary safety precautions, accident if any will be at the account of contractor.
10. Taxes: - Rate should be quoted inclusive of all other taxes.

11. WCT, Income Tax shall be recovered from the bills as applicable .
12. You will have to pay 5% Security Deposit of the order value before starting the work.
13. In case of work is not completed in time /not done in good condition or in a proper manner, the right to cancel the order is reserved with the undersigned.
14. Sub contract is not allowed.
15. The work should be carried out as per MSETCLs requirement and will be inspected by authorized person.
16. Agency will be fully responsible for an accident occurs to your person(s). The compensation will be payable by you.
17. The quantities mentioned are provisional & may alter either by addition or reduction.
18. No labour assistance and T & P will be provided by the MSETCL.
19. Supporting document if any attached with quotation.
20. **General:** - MSETCL general Terms and Conditions for works are applicable to this contract.
21. The undersigned reserves the rights to accept or reject any or all the Quotation without assigning any reason thereof.

Yours faithfully,



**Executive Engineer
765kV R.S. Division,
Ektuni, MSETCL.**

Encl: - Schedule A & B

Copy s.w.r.to:-

The Superintending Engineer, EHV (O&M) Circle. Aurangabad.

Copy to:-

The Dy. Manager (F&A), 765kV R.S. Division, Ektuni .

Estimate For AMC for servicing / maintenance of battery sets & battery chargers, taking capacity tests of battery sets & reconditioning of 220V/48V, 1000 AH battery cells at 765V R S Division Ektuni

Schedule "A"

Scope of Work :- Servicing of Battery Set and Charger

Sr. No.	Service No.	Description	Unit	Qty	Ex. Rate Inclusive of LS (A)	GST=18% on Rate with LS (B=A*0.18)	Rate With GST (C=A+B)	Final Rate (QTY*C) (Incl. All Taxes)
1		Capacity Test of Battery sets as per standard method of Mfg with required charging and discharging cycle complete as directed						
	50005351	220VDC-100AH	EA	2	12427.97	2237.03	14665.00	29330.01
	50005352	48V DC- 1000 AH	EA	2	10652.54	1917.46	12570.00	25139.99
2		Reconditioning of Battery Cell removed from Battery set as per standard procedure				0.00	0.00	0.00
	50002763	220V DC 1000AH	EA	2	17753.39	3195.61	20949.00	41898.00
	50002763	48V DC 1000AH	EA	2	17753.39	3195.61	20949.00	41898.00
3	50007930	Replacement of Battery cell with removal of terminals and re-connecting the same with replaced new cell which is charged/tested separately	Each	1	975.42	175.58	1151.00	1151.00
4		Replacement of intercell connector inter-ROW connector with but bolts & fasteners -with material				0.00	0.00	0.00
	50002894	Inter Cell Connector	EA	20	296.01	53.28	349.29	6985.84
	50002894	Inter Row Connector	EA	5	709.83	127.77	837.60	4188.00
5	50002894	Nut-bolts	EA	40	53.46	9.62	63.08	2523.31
	50015231	Replacement of vent plugs and caps for battery cells with material	EA	1	47.52	8.55	56.07	56.07
6	50017291	Replacement of battery float level indicator	EA	1	118.80	21.38	140.18	140.18

7	For Charger Maintenance		Servicing/repairs of all Capacities of Battery Charger of any make (Servicing includes cleaning, internal setting of output voltage & current to required value including detail checking every quarter, Checking of unbalance A.C. supply, checking of ammuciation circuits, DC voltage/Current Characteristics, Leakage Current Monitoring, Testing of Harmonics, Testing of Loose connections if any)					0.00	0.00	0.00
	50009938	220VDC-1000AH								
	50009937	48 VDC- 1000 AH	Per set	2	3397.05	611.47	4008.52	8017.04		
8	For Battery Set Maintenance		Maintenance includes :- Cell to cell and terminal connection resistance measurement, structural integrity of rows, detail visual inspection of all cells, Sp. Gravity of 10% of string as per IEEE450, corrosion cleaning if any, Cracks of Cells if any, Tightening of I/C strips, Total Battery Voltage.					0.00	0.00	0.00
	50003900	220VDC-1000AH								
	50003903	48 VDC- 1000 AH	Per set	2	5916.51	1064.97	6981.48	13962.96		
9	50012681	Battery Impedance test (on line impedance measurement test for individual battery cell of various AH capacity) 2V, 1000/500 AH cell (Rate per cell)	Per Cell	308	687.06	123.67	810.73	249705.09		
10	50015204	Shifting of load with On Load Condition	EA	2	8212.29	1478.21	9690.50	19381.00		
11	50009341	E/F Detection in Substation (48/220V)	EA	2	8550.08	1539.01	10089.10	20178.20		
12	50005163	Emergency Service charges	Day	2	8861.34	1595.04	10456.38	20912.76		
13	50003363	Transportation of Battery Cells	EA	15	594.84	107.07	701.91	10528.67		
14	50002767	Acid Proof Painting - 220V Battery Stand	EA	2	3535.60	636.41	4172.01	8344.02		
15	50002765	Acid Proof Painting - 48V Battery Stand	EA	2	2892.80	520.70	3413.50	6827.01		

16	50003365	Online Battery Fastners	EA	15	31.81	5.73	37.54	563.04
17	50003366	Online Replacement of Battery Cell	EA	15	121.92	21.95	143.87	2157.98
18	50005241	Recharging of battery set	EA	2	5194.92	935.09	6130.01	12260.01
							Total	548530.13

Estimate For AMC for servicing / maintenance of battery sets & battery chargers, taking capacity tests of battery sets & reconditioning of 220V/48V, 1000 AH battery cells at 765V R S Division Ektuni

Schedule "B"

Scope of Work :- Material for Battery Set and Charger

Sr. No.	SAP No	Description of Material	Unit	Qty	Ex. Rate Inclusive of LS (A)	GST=18% on Rate with LS (B=A*0.18)	Rate With GST (C=A+B)	Final Rate (QTY*C) (Incl. All Taxes)
1	500005890	1000AH Intercell Connecting Strip	EA	1	344.83	62.07	406.90	406.90
2	50002894	1000AH Fastener	EA	1	54.54	9.82	64.36	64.36
3	500001385	48V Battery Float Level Indicator	EA	1	131.72	23.71	155.43	155.43
4	500001368	220V DC Battery Float Level Indicator	EA	1	131.72	23.71	155.43	155.43
5	500001369	220V 1000AH DC Battery Set Vent Plug & Caps	EA	1	88.98	16.02	105.00	105.00
6	500006273	48V 1000AH DC Battery Set Microporous Vent Plug & Caps	EA	1	88.98	16.02	105.00	105.00
7	500001360	DC Battery Hydrometer	EA	1	307.07	55.27	362.34	362.34
8	500004408	Petroleum Jelly	KG	1	175.52	31.59	207.11	207.11
9	500004318	Electrolyte for Battery	LTR	1	68.80	12.38	81.18	81.18
10	500005671	Battery Bypass Link	EA	1	158.10	28.46	186.56	186.56
11	500001370	220V DC Battery Insulator Stand	EA	1	979.93	176.39	1156.32	1156.32
12	500001387	48V Battery Insulator-Battery Stand	EA	1	847.37	152.53	999.90	999.90
13	500014671	Battery Cable - 48V Battery Set	M	1	1375.93	247.67	1623.60	1623.60
14	500004643	2P 440V 16A ON-OFF Switch	EA	1	2191.42	394.46	2585.88	2585.88
15	500004646	3P 16A ON-OFF 440V Switch	EA	1	3363.49	605.43	3968.92	3968.92
16	500004645	2P 40A 4 Ways ON-OFF AC Switch	EA	1	5137.93	924.83	6062.76	6062.76
17	500005060	12A Auto / Manual Selector Switch	EA	1	825.56	148.60	974.16	974.16
18	500005065	INO+INC 6A Push Burton	EA	1	450.53	81.10	531.63	531.63
19	500005675	2-20 A Fuse Link	EA	1	854.92	153.89	1008.81	1008.81
20	500005676	6-32 A Fuse Link	EA	1	343.99	61.92	405.91	405.91
21	500001872	100A Fuse Link	EA	1	873.38	157.21	1030.59	1030.59
22	500004647	250A Fuse Link	EA	1	1006.78	181.22	1188.00	1188.00
23	500005067	20-40 A Semi-conductor Fuse (GSA)	EA	1	714.81	128.67	843.48	843.48
24	500004650	45-75 A Semi-conductor Fuse (GSB)	EA	1	815.49	146.79	962.28	962.28
25	500004651	W. W. Resistance - 3 to 15 kΩ 50W	EA	1	286.09	51.50	337.59	337.59
26	500004652	1-10 kΩ 3W Potentiometer	EA	1	359.92	64.79	424.71	424.71
27	500019258	40-80V DC Analog Voltmeter	EA	1	2118.43	381.32	2499.75	2499.75
28	500004653	0-500V DC Voltmeter (S-96)	EA	1	2488.42	447.92	2936.34	2936.34
29	500004654	0-200V DC Voltmeter (S-96)	EA	1	2118.43	381.32	2499.75	2499.75
30	500004655	0-25 A DC Ammeter (S-96)	EA	1	2488.42	447.92	2936.34	2936.34
31	500004656	0-50 A DC Ammeter (S-96)	EA	1	2542.12	457.58	2999.70	2999.70
32	500005677	10-0-10 mA DC Milliammeter (S-96)	EA	1	3336.64	600.60	3937.24	3937.24
33	500004658	600 PIV 20A Diode	EA	1	1406.14	253.11	1659.25	1659.25
34	500004659	1000 PIV 25A Diode	EA	1	1406.14	253.11	1659.25	1659.25

35	500004660	50A 600 PIV Blocker Diode	EA	1	562.71	101.29	664.00	664.00	664.00
36	500005678	70A 400 PIV Blocker Diode	EA	1	562.71	101.29	664.00	664.00	664.00
37	500004661	100A 600 PIV Battery Tap Diode	EA	1	3204.08	576.73	3780.81	3780.81	3780.81
38	500013711	25A 600 PIV SCR	EA	1	2144.44	386.00	2530.44	2530.44	2530.44
39	500005679	25A 1000 PIV SCR	EA	1	2144.44	386.00	2530.44	2530.44	2530.44
40	500005680	30A 1000 PIV SCR	EA	1	2144.44	386.00	2530.44	2530.44	2530.44
41	500004664	50A 600 PIV SCR	EA	1	2144.44	386.00	2530.44	2530.44	2530.44
42	500001428	5000µF 100V Filter Capacitor	EA	1	1297.91	233.62	1531.53	1531.53	1531.53
43	500001417	2500µF 200V Filter Capacitor	EA	1	1721.59	309.89	2031.48	2031.48	2031.48
44	500001406	2000µF 450V Filter Capacitor	EA	1	3629.44	653.30	4282.74	4282.74	4282.74
45	500004676	1Ø SCR Controller	EA	1	12181.20	2192.62	14373.82	14373.82	14373.82
46	500004677	Motorised Variac CP Controller	EA	1	13182.94	2372.93	15555.87	15555.87	15555.87
47	500004678	3Ø H&F Controller Synchronising Card	EA	1	5138.77	924.98	6063.75	6063.75	6063.75
48	500004679	AC Under Voltage Relay	EA	1	5657.27	1018.31	6675.58	6675.58	6675.58
49	500004680	DC Under Voltage Relay	EA	1	5968.52	1074.33	7042.85	7042.85	7042.85
50	500004681	Battery DC Earth Fault Relay	EA	1	9270.77	1668.74	10939.51	10939.51	10939.51
51	500002579	1Ø Window Alarm Annunciator	EA	1	1777.12	319.88	2097.00	2097.00	2097.00
52	500004682	Electronic Fuse Fail Finder	EA	1	1184.75	213.26	1398.01	1398.01	1398.01
53	500005687	SCR & Diode Heat Sink	EA	1	177.12	31.88	209.00	209.00	209.00
54	500001803	20A HRC Fuse Base	EA	1	118.64	21.36	140.00	140.00	140.00
55	500001806	32A HRC Fuse Base	EA	1	118.64	21.36	140.00	140.00	140.00
56	500001809	60A HRC Fuse Base	EA	1	148.31	26.70	175.01	175.01	175.01
57	500005683	415V AC Input Fuses (3 Fuses)	EA	1	4463.39	803.41	5266.80	5266.80	5266.80
58	500005684	220V DC Output Fuses (2 Fuses)	EA	1	4878.69	878.16	5756.85	5756.85	5756.85
59	500017996	3P 415V 20A MCCB	EA	1	5185.76	933.44	6119.20	6119.20	6119.20
60	500004022	2P 25A MCCB	EA	1	3840.86	691.35	4532.21	4532.21	4532.21
61	500004112	2P 250V 15A DC MCCB	EA	1	10899.23	1961.86	12861.09	12861.09	12861.09
62	500011307	48V DC Contactor	EA	1	8823.58	1588.24	10411.82	10411.82	10411.82
63	500002276	220V DC 65 A Contactor	EA	1	16090.01	2896.20	18986.21	18986.21	18986.21
64	500021005	250V 10mm DCDB LED Indicating Lamp	EA	1	337.27	60.71	397.98	397.98	397.98
65	500014254	Battery Charger DC Choke (Float/Boost)	EA	1	12975.71	2335.63	15311.34	15311.34	15311.34
66	50004721	Electronic Component Cleaner	EA	1	2335.73	420.43	2756.16	2756.16	2756.16
67	500005688	220V Float or Boost Charger Power T/F	EA	1	9124.58	1642.42	10767.00	10767.00	10767.00
68	500005690	48V Battery Charger Power T/F	EA	1	5397.17	971.49	6368.66	6368.66	6368.66
								Total	234483.43

Schedule "A"	548530.13
Schedule "B"	234483.43
Total	783013.56
Final Say Amount	783014.00

In Words: Seven Lakhs Eighty three Thousands fourteen Only (Including All Taxes)



Executive Engineer
765KV RS Div. Ektuni

I am ready to carry out the work below/above/at par of estimated cost

Agency Name and sign