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|  MAHATRANSCO <small>Maharashtra State Electricity Transmission Co. Ltd.</small> | MAHARASHTRA STATE ELECTRICITY TRANSMISSION COLTD. Office of the EXECUTIVE ENGINEER EHV O&M DIVISION, Pimpri-Chinchwad Near 220 KV S/S Chinchwad Bijlinagar, Chinchwad, Pune – 411 033. Email ID :- ee61b0@mahatransco.in (CIN No. U40109MH2005SGC153646) |  |
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No.: EE/PCDN/Tech./ No.628

Date : 25.06.2024

TO WHOM SO EVER IT MAY CONCERN

Subject:- Calling budgetary offers in r/o Annual Maintenance contract for Servicing, Maintenance & Repair of 220V, 110V, 48V Battery sets & Battery Chargers at various EHV Substations under EHV O&M Division, Pimpri Chinchwad, Pune

Dear Sir,

The budgetary offers through e-mail are hereby invited for the above work as per schedule 'A' mentioned below:

| Sr. No. | Particulars | Unit | Ex Rate | GST | Unit Rate |
|----------|--|------|---------|-----|-----------|
| A | Service Part | | | | |
| 1 | Providing of engineering services for attending emergency work related to Battery set & Battery charger as and when required | EA | | | |
| 2 | Capacity test of battery sets as per standard method of Mfg. with required charging & discharging cycle complete as directed | | | | |
| a | 110V 500AH | EA | | | |
| b | 30 V DC 200/300AH | EA | | | |
| 3 | Dismantling of battery set with removal of battery terminal connection, cables, battery cells, stands, etc. complete with stacking at suitable place as directed | | | | |
| a | 30 V DC 200/300AH | EA | | | |
| 4 | Erecting & commissioning of the battery set with stands arrangement in battery room as per drawings and as directed with erecting the battery cells with connection the same with copper terminals provided with fillings of acid, laying and terminating the cables from chargers and applying the charging and discharging cycle as specified in Mfg manual to get the desired result of gravity and voltage | | | | |

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| a | 110V 500AH | EA | | | |
| 5 | Charges towards transportation of battery cells from s/stn to work site & vice versa including loading & unloading | EA | | | |
| 6 | Repairing of controller card | EA | | | |
| 7 | Replacement of cell connector with nut bolts & fasteners with material | | | | |
| a | Inter cell Connector (142X20X4 MM/165X20X4 MM/190X20X4MM Copper lead coated) | EA | | | |
| b | Inter Row Connector (500X20X4 MM Copper lead coated) | EA | | | |
| c | Inter Tier Connector(900X20X4 MM Copper lead coated) | EA | | | |
| d | Nut Bolt (BRASS LEAD COATED FASTNERS Nut bolt washer M8X25 MM) | EA | | | |
| 8 | Erection and Grouting of Battery Charger and Load testing of charger. | | | | |
| a | 220V | EA | | | |
| b | 110V | EA | | | |
| c | 48V | EA | | | |
| 9 | Battery Cable lying along with termination. | | | | |
| a | Battery Cable- 120 Sqmm Cu Armoured | Mtr | | | |
| b | Battery Cable- 70 Sqmm Cu Armoured | Mtr | | | |
| c | Battery Cable- 50 Sqmm Cu Armoured | Mtr | | | |
| d | Battery Cable- 35 Sqmm Cu Armoured | Mtr | | | |
| 10 | Maintenance of Battery Charger | EA | | | |
| 11 | Temporary arrangement of stand by Battery Set in case of emergency | | | | |
| a | 220V | EA | | | |
| b | 110V | EA | | | |
| c | 48V | EA | | | |
| 12 | Desulphation treatment for 2V 300Ah battery cell | EA | | | |
| 13 | Attending earth leakage fault of DC circuit | EA | | | |

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| B | Supply Part | | | | |
| 1 | 3Ph Float mode charger Transformer | | | | |
| a | 220V | EA | | | |
| b | 110V | EA | | | |
| c | 48V | EA | | | |
| 2 | 3Ph Boost mode charger Transformer | | | | |
| a | 220V | EA | | | |
| b | 110V | EA | | | |
| c | 48V | EA | | | |
| 3 | Battery charger DC Choke | EA | | | |
| 4 | Battery charger SCR | | | | |
| a | 220V | EA | | | |
| b | 110V | EA | | | |
| c | 220V | EA | | | |
| 5 | 3 phase half controlled SCR controller | EA | | | |
| 6 | 3 phase full controlled SCR controller | EA | | | |
| 7 | Single phase SCR controller | EA | | | |
| 8 | SCR & Diode Heat Sink | EA | | | |
| 9 | SCR Controller Card | EA | | | |
| 10 | 3 Full Controller SCR Charger (48 V) | EA | | | |
| 11 | Three phase electronic main controller | EA | | | |
| 12 | Synchronizing card for 3 phase half and full controller | EA | | | |
| 13 | 220V BC Power Supply Card (69-00120) | EA | | | |

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|----|--|----|--|--|--|
| 14 | Main Control Card boost | EA | | | |
| 15 | Auto Voltage &Current Ctrl Sys Main Card | EA | | | |
| 16 | 220V Earth Fault Detector Card | EA | | | |
| 17 | Battery Charger Annunciation Circuit | EA | | | |
| 18 | Battery Charger HVPF Card | EA | | | |
| 19 | Spares - Battery Charger Electronic Card | EA | | | |
| 20 | 220V DC HFT Card | EA | | | |
| 21 | 220V BC I/p ON 3P 15A On-Off KS 100R MCC | EA | | | |
| 22 | VDD Circuit Network - Battery Charger | EA | | | |
| 23 | 110V Charger Diode | EA | | | |
| 24 | 220V Charger Diode | EA | | | |
| 25 | 50A 600PIV Blocker Diode- | EA | | | |
| 26 | 70A 400PIV Blocker Diode | EA | | | |
| 27 | 100A 600PIV Battery tap Diode | EA | | | |
| 28 | 48V Battery Charging Thyristor/Diode | EA | | | |
| 29 | 2-20A or 6-32A Fuse Link | EA | | | |
| 30 | 100A / 250 A Fuse Link | EA | | | |
| 31 | 10-25A Semi-conductor Fuse | EA | | | |
| 32 | 50-75A Semi Conductor Fuse (GSA) | EA | | | |
| 33 | 50-75A Semi Conductor Fuse (GSB) | EA | | | |

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| 34 | 415V AC Input fuses (3 fuses) 415V | EA | | | |
| 35 | 220V DC Output Fuses (2 fuses) 220V | EA | | | |
| 36 | HRC fuse Holder 32/35/65 A | EA | | | |
| 37 | Auto/ Manual switch (16A, 8P, 440V) | EA | | | |
| 38 | 250V 25A AC Rotary switch Four Mode | EA | | | |
| 39 | 2P 2way 2T26B Auto/Manual switch | EA | | | |
| 40 | 10A Ammeter Selector Switch | EA | | | |
| 41 | 10A Voltmeter Selector Switch | EA | | | |
| 42 | 12A Auto/ Manual selector switch | EA | | | |
| 43 | 2 or 3 pole 16A/ 63A DC on/off switch | EA | | | |
| 44 | 2P 16A 440V ON-OFF switch | EA | | | |
| 45 | 3P 16A ON-OFF 440V Switch | EA | | | |
| 46 | AC under voltage relay | EA | | | |
| 47 | DC under voltage relay | EA | | | |
| 48 | Battery DC Earth Fault relay | EA | | | |
| 49 | 3 C/O 240 V AC Relay | EA | | | |
| 50 | Float mode charger Filter Capacitor | EA | | | |
| 51 | Boost mode charger Filter Capacitor | EA | | | |
| 52 | DC/AC Ammeter / Voltmeter (S-96) | EA | | | |
| 53 | 0-500V AC Voltmeter (S-96) | EA | | | |

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|----|--|----|--|--|--|
| 54 | ANALOG VOLTMETER DC | EA | | | |
| 55 | Charged discharged meter (Charge-Discharge Ammeter Assembly w/t shunt)- 200-0-200Amp | EA | | | |
| 56 | DIGITAL AMMETER DC | EA | | | |
| 57 | DC Earth Leakage meter 100mA-0-100mAfor Battery charger | EA | | | |
| 58 | 50A / 75mV shunt | EA | | | |
| 59 | Solid State LED Lamps (AC/DC Power Supply LED Lamp R/Y/B/W/G colour as required) | EA | | | |
| 60 | Unfusible Led Indicator with circuit 30mA | EA | | | |
| 61 | Push Button 230V AC | EA | | | |
| 62 | 1-10kohm 3W Potentiometer | EA | | | |
| 63 | AC contactor ML1 440 V- 10 A | EA | | | |
| 64 | 110V/ 220V DC battery charger DC Contractor-100A | EA | | | |
| 65 | AC MCCB 15A -25A -3 Ph 415V AC - Breaking capacity 14KA | EA | | | |
| 66 | DC MCCB 30A-40A -3 Ph 220V /110V Breaking capacity 10KA | EA | | | |
| 67 | Earth Leakage circuit (PCB) for 110V charger | EA | | | |
| 68 | Power wire with Hardware for modification of charger | EA | | | |
| 69 | Power wire wt H/W - Charger Modification | EA | | | |
| 70 | Power Cord wt H/w - Battery Charger | EA | | | |
| 71 | 48V Battery Charger Power Supply Card | EA | | | |
| 72 | Copper lead coated Intercell connecting strips | EA | | | |

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| 73 | Float cum acid level indicator (Microporous) | EA | | | |
| 74 | DC Battery Hydrometer | EA | | | |
| 75 | Cell tester | EA | | | |
| 76 | Petroleum Jelly | EA | | | |
| 77 | Electrolyte for battery | EA | | | |
| 78 | Battery Cable & Lugs | EA | | | |
| a | Battery Cable- 120 Sqmm Cu Armoured | Mtr | | | |
| b | Battery Cable- 70 Sqmm Cu Armoured | Mtr | | | |
| c | Battery Cable- 50 Sqmm Cu Armoured | Mtr | | | |
| d | Battery Cable- 35 Sqmm Cu Armoured | Mtr | | | |
| e | Battery Cable- 120 Sqmm Cu Lug | EA | | | |
| f | Battery Cable- 70 Sqmm Cu Lug | EA | | | |
| g | Battery Cable- 50 Sqmm Cu Lug | EA | | | |
| h | Battery Cable- 35 Sqmm Cu Lug | EA | | | |
| 79 | Battery bypass link 25 Sqmm | EA | | | |
| 80 | Battery teak wood stand 1500 x 725 x1000mm | EA | | | |
| 81 | 48V Battery Insulator-Battery Stand | EA | | | |
| 82 | Electronic Component Cleaner | EA | | | |

Note: Rate shall be valid for 60 days from the date of submission of offer.

You are requested to quote your best reasonable rate for the above work. The terms & Conditions are as follows:

Terms & Condition:

1. The rate should be quoted on firm quotation basis.
2. The rates should be exclusive of all taxes. Taxes should be quoted extra.
3. You are requested to submit your best reasonable budgetary offer as per Schedule 'A' for above works on **E-mail id ee61b0@mahatransco.in upto 11:00 Hrs on dtd: 02.07.2024.**
4. Following documents should be submitted along with your offer:-
 - a) Shop Act/ Udyog Adhar Registration Certificate
 - b) Work Experience Certificate for similar nature of works in MSETCL/ MSEDCL/ in any power utility or in Private Company in India.
5. Please note that said budgetary offer is only for estimation purpose and will not be considered for any bidding & no work order will be issued based on this offer.

Sd/-
(Deepak Madane)
Executive Engineer
Pimpri-Chinchwad Division, Pune