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Estimate Details

Work Estimate Number BESCOM/2021-22/EL/WORK_INDENT3220

Work Information

Work Category : Electrical Name of the Work : Providing EV Charging Stations at BESCOM owned premises across BESCOM

Estimate Total : 111563805.1

Geographical Information

Geographical Informations are not defined

Schedule B

Sl No	Item Code	Item Name	Unit	Quantity	Final Rate (INR)	Total (INR)
1	0	Supply of IS17017/IEC61851 compliant Pedestal / Ground Mounted EVSE with 2 nos. CCS Combo 2 Connectors of Power rating 50kW	Nos.	46	987000	45402000
2	0	Supply of Bharath DC-001 EVSE with GB/T connector of power rating 30kW (2 guns of 15kW each)	Nos.	48	346750	16644000
3	0	Supply of Bharath AC-001 EVSE with 3 nos of IEC60309 Type-1 Industrial Connector of power rating 3.3kW each. (Total power of 10kW)	Nos.	50	49350	2467500
4	0	Supply of Internet facility for EVSEs (SIM cards with data charges for 72 months)	Nos.	144	14400	2073600
5	55.03	Supply of Meter Protection/Tamper Proof Box (MS) with busbar, for LT 3 Ph with CT Ratio 100/5A, Class-1 Accuracy	Nos.	46	5452	250792
6	55.01	Supply of Meter Protection/Tamper Proof Box (MS) with busbar, for LT 3 Ph with CT Ratio 50/5A, Class-1 Accuracy	Nos.	7	6156	43092
7	5.16.2	Supplying and fixing regular 8-Way MCCB distribution Panel confirming to IS 8828, on wall / wood board / flush mounting using required clamps, bolts, nuts, etc., with provision for fixing of suitable type capacity MCCB's as an incomer for 3 phase Double door with necessary bus bar completely wired to use on 440Volts 3phase 4 wire powder coated painting etc., complete with a provision for fixing of single/ three phase suitable capacity MCCB/MCB's as outgoings confirming to IS8828. (PWD Electrical SR 18-19; SL. No. 5.16.2)	Nos.	53	8800	466400
8	5.17.9	Supplying and fixing 32A TPN (For AC-001) miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. (PWD Electrical SR 18-19; SL. No. 5.17.9)	Nos.	50	2374	118700
9	5.14.8	Supplying and fixing 63A TPN (For DC-001) miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. (PWD Electrical SR 18-19; SL. No. 5.14.8)	Nos.	48	2397	115056
10	5.17.8	Supplying and fixing 125A 4P (For CCS2) miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. (PWD Electrical SR 18-19; SL. No. 5.17.8)	Nos.	46	8250	379500
11	61.01	Supply of 10sqmm Al End Terminals (Lugs) Note: Either pin type or ring type as per the requirement	Nos.	800	2	1600

SI No	Item Code	Item Name	Unit	Quantity	Final Rate (INR)	Total (INR)
12	61.03	Supply of 25sqmm Al End Terminals (Lugs) Note: Either pin type or ring type as per the requirement	Nos.	768	3	2304
13	61.04	Supply of 32sqmm Al End Terminals (Lugs) Note: Either pin type or ring type as per the requirement	Nos.	736	4	2944
14	31.09	Supply of 35 Sqmm, 3.5 Core, (14 GI Strips - 4.0 x 0.8mm) 1.1kV LT, XLPE or Heat resistant PVC insulated, PVC extruded Inner Seath armoured UG LT cable as per IS-1554 (Part- 1) or IS-7098 Part-1, Armouring strip thickness in average $\hat{A}, \hat{A} \pm 5\%$ and resistivity 14 Ohms/Kms (Max) as per IS-3975	Mtrs	460	139.11	63990.6
15	31.07	Supply of 25 Sqmm, 3.5 Core, (12 GI Strips - 4.0 x 0.8mm) 1.1kV LT, XLPE or Heat resistant PVC insulated, PVC extruded Inner Seath armoured UG LT cable as per IS-1554 (Part- 1) or IS-7098 Part-1, Armouring strip thickness in average $\hat{A}, \hat{A} \pm 5\%$ and resistivity 14 Ohms/Kms (Max) as per IS-3975	Mtrs.	480	120.97	58065.6
16	31.03	Supply of 10 Sqmm, 4 Core, (10 GI Strips - 4.0 x 0.8mm) 1.1kV LT, XLPE or Heat resistant PVC insulated, PVC extruded Inner Seath armoured UG LT cable as per IS-1554 (Part- 1) or IS-7098 Part-1, Armouring strip thickness in average $\hat{A}, \hat{A} \pm 5\%$ and resistivity 14 Ohms/Kms (Max) as per IS-3975	Mtrs.	750	95.74	71805
17	52.01	Supply of GI Grounding pipe, B - Class, 42mm dia, 2.5mtrs long, 3.2mm thick with bolts nuts, GI Strips and washers complete Minimum Weight of GI Pipe: 7.3 Kgs	Nos.	106	626	66356
18	52.02	Supply of Good Quality well burnt Charcoal for grounding purposes packed in non returnable gunny bags of 30kg each	Nos.	212	600	127200
19	52.03	Supply of Good Quality Salt for grounding purposes packed in 50kg gunny bags	Bag	212	275	58300
20	53.01	Supply of Transparent Alkathine tube 19mm dia, 2mm thick in coils of 30 mtrs	Coil	53	458	24274
21	6.18.5	Supplying and running 10SWG Copper wire for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. (PWD Electrical SR 18-19; SL. No. 6.18.5)	Mtrs.	530	68	36040
22	1.9.2	Supplying 25mm dia (For 10sqmm Cable) PVC/GI flexible conduit pipe and fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and on either end of the pipe terminated completely. (PWD Electrical SR 18-19; SL. No. 1.9.2)	Mtrs.	750	28	21000
23	1.9.4	Supplying 38mm dia (For 25 & 35sqmm Cable) PVC/GI flexible conduit pipe and fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and on either end of the pipe terminated completely.(PWD Electrical SR 18-19; SL. No. 1.9.4)	Mtrs.	940	44	41360
24	0	Installation of IS17017/IEC61851 compliant Pedestal / Ground Mounted EVSE with 2 nos. CCS Combo 2 Connectors of Power rating 50kW	Nos.	46	13599.5	625577
25	0	Installation of Bharath DC-001 EVSE with GB/T connector of power rating 30kW (2 guns of 15kW each)	Nos.	48	13599.5	652776
26	0	Installation of Bharath AC-001 EVSE with 3 nos of IEC60309 Type-1 Industrial Connector of power rating 3.3kW each. (Total power of 10kW)	Nos.	50	4759.83	237991.5
27	CDS42	Fixing of Meter Protection/Tamper Proof Box (MS) with busbar, for LT 3 Ph with CT Ratio 100/5A, Class-1 Accuracy	Nos.	46	769.74	35408.04
28	CDS42	Fixing of Meter Protection/Tamper Proof Box (MS) with busbar, for LT 3 Ph with CT Ratio 50/5A, Class-1 Accuracy	Nos.	7	769.74	5388.18
29	31.06	Laying of 35 Sqmm, 3.5 Core, (14 GI Strips - 4.0 x 0.8mm) 1.1kV LT, XLPE or Heat resistant PVC insulated, PVC extruded Inner Seath armoured UG LT cable as per IS-1554 (Part- 1) or IS-7098 Part-1, Armouring strip thickness in average $\hat{A}, \hat{A} \pm 5\%$ and resistivity 14 Ohms/Kms (Max) as per IS-3975	Mtrs.	460	27.97	12866.2
30	31.05	Laying of 25 Sqmm, 3.5 Core, (12 GI Strips - 4.0 x 0.8mm) 1.1kV LT, XLPE or Heat resistant PVC insulated, PVC extruded Inner Seath armoured UG LT cable as per IS-1554 (Part- 1) or IS-7098 Part-1, Armouring strip thickness in average $\hat{A}, \hat{A} \pm 5\%$ and resistivity 14 Ohms/Kms (Max) as per IS-3975	Mtrs.	480	19.12	9177.6
31	31.05	Laying of 10 Sqmm, 4 Core, (10 GI Strips - 4.0 x 0.8mm) 1.1kV LT, XLPE or Heat resistant PVC insulated, PVC extruded Inner Seath armoured UG LT cable as per IS-1554 (Part- 1) or IS-7098 Part-1, Armouring strip thickness in average $\hat{A}, \hat{A} \pm 5\%$ and resistivity 14 Ohms/Kms (Max) as per IS-3975	Mtrs.	750	19.12	14340
32	1.6.1 & 7.05	Providing of earthing as per BESCO guidelines	Nos.	106	858.13	90961.78

SI No	Item Code	Item Name	Unit	Quantity	Final Rate (INR)	Total (INR)
33	0	Annual Maintenance of the EV Charging Stations for 5 years	L/S	1	36626439.6	36626439.6
34	0	CC Camera - 2 nos with a 4 Channel DVR with provision for internet connection for remote monitoring (wired/wireless as per site requirement), of reputed make along with necessary cabling (for internet connectivity up to 200m), power supply, power backup of 1 hr, suitable solar panel for renewable power supply and video backup of 30 days, mounted on suitable metal pole structure(s) near the charging station. The DVR along with power supply shall be in a weather proof metal enclosure with locking mechanism.	Set	53	50000	2650000
35	0	Fire extinguishers ABC type of capacity 9kg with metal fixture to be mounted on a supporting structure.	Set	53	5000	265000
36	0	Fire extinguishers CO2 type of capacity 4.5kg with metal fixture to be mounted on a supporting structure.	Set	53	9000	477000
37	0	Signage - Double Sided LED Signage 3ft x 3ft made of Acrylic with custom design and auto day-light sensors mounted on a metal pole of height 10 ft above the ground level.	Set	53	25000	1325000

[Back](#)

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