BILL OF QUANTITY FOR 60KW, 30 KW, 3 KW DC FAST EV CHARGER AND 3.3 AC CHARGER

S. No.	Item Description	Unit	Qty	Rate	Amount
	Section-I 60 KW DC Fast charger with two guns				
1	Supply and installation 60 KW DC fast charger with two guns (two car charging at a time) and online app based and SIM cards (Xobolt/TATA/JIO/Statiq/Bolt/Zev Point//JBM/Nikol/ Tirex/ Verdemobility)	**No.**	**4**		
2	Supply and installation 30 KW DC fast charger with two guns (two car charging at a time) and online app based and SIM cards (Xobolt/TATA/JIO/Statiq/Bolt/Zev Point//JBM/Nikol/ Tirex/ Verdemobility)	**No.**	**7**		
3	Supply and installation 3 KW DC fast charger with two guns (two car charging at a time) and online app based and SIM cards (Xobolt/TATA/JIO/Statiq/Bolt/Zev Point//JBM/Nikol/ Tirex/ Verdemobility)	**No.**	**6**		
4	Supply and installation 3.3 KW AC fast charger with single guns and online app based and SIM cards (Xobolt/TATA/JIO/Statiq/Bolt/Zev Point//JBM/Nikol/ Tirex/ Verdemobility)	**No.**	**2**		
	Sub Total section-I DC and AC chargers				
	Section-II LT panel and power cabling work				
5	Supply, installation, testing and commissioning (SITC) of new fully compartmentalised, wall/ Floor mounted, if floor mounted than stand should be made of MS channel/angle grouted to floor with the panel 450 mm above ground level, bottom/top cable entry, front operating, dead back main electrical panel made of 16g CRCA sheet steel painted with one coat of red oxide primer and two coat of outdoor type synthetic enamel paint (spray painted) after de greasing, de rusting and phosphading, with two earth studs, 30x6 mm G.I. Earth bus, SMC/DMC insulator as required and comprising of the following: **Incomer** : i. One 4P, 415 V, 200A, 25 KA breaking capacity MCCB with adjustable thermal and fixed magnetic release. Digital multi function meter, RYB LED LAMP, ON/OFF Indicating Lamp, and control fuse.(Mains) for 60KW charger	Set	4		
6	Supply, installation, testing and commissioning (SITC) of new fully compartmentalised, wall/ Floor mounted, if floor mounted than stand should be made of MS channel/angle grouted to floor with the panel 450 mm above ground level, bottom/top cable entry, front operating, dead back main electrical panel made of 16g CRCA sheet steel painted with one coat of red oxide primer and two coat of outdoor type synthetic enamel paint (spray painted) after de greasing, de rusting and phosphading, with two earth studs, 30x6 mm G.I. Earth bus, SMC/DMC insulator as required and comprising of the following: **Incomer** : i. One 4P, 415 V, 125A, 25 KA breaking capacity MCCB with adjustable thermal and fixed magnetic release. Digital multi function meter, RYB LED LAMP, ON/OFF Indicating Lamp, and control fuse.(Mains) for 30KW charger	Set	7		
7	Supply, installation, testing and commissioning (SITC) of new fully compartmentalised, wall/ Floor mounted, if floor mounted than stand should be made of MS channel/angle grouted to floor with the panel 450 mm above ground level, bottom/top cable entry, front operating, dead back main electrical panel made of 16g CRCA sheet steel painted with one coat of red oxide primer and two coat of outdoor type synthetic enamel paint (spray painted) after de greasing, de rusting and phosphading, with two earth studs, 30x6 mm G.I. Earth bus, SMC/DMC insulator as required and comprising of the following: **Incomer** : i. One 4P, 415 V, 100A, 25 KA breaking capacity MCCB with adjustable thermal and fixed magnetic release. Digital multi function meter, RYB LED LAMP, ON/OFF Indicating Lamp, and control fuse.(Mains) for 3KW DC and 3.3 KW AC charger	Set	8		
8	**DISTRIBUTION CABLE:**				
	SUPPLY AND LAYING OF CABLE:				
	Supplying and laying of 1.1 KV grade aluminium conductor, PVC/XLPE insulated and sheathed, armoured cables of following sizes conforming to IS:1554 (Part-I) underground or on surface with two 10 SWG G.I. earth continuity wire all along the run with MS painted saddle and clamps made of 6 mm thick MS flat.				
	(a) 3.5 core X 70 sq.mm. (POWER) for 60 KW charger	Mtr	350		
	(b) 3.5 core X 35 sq.mm. (POWER) for 30 KW charger	Mtr	630		
	(c) 4 core X16 sq.mm. (POWER) for 60 KW charger	Mtr	380		
9	**CABLE TERMINATION**				
	End termination of 1100 V grade, armoured Al cable of following sizes using Dowells make Cu lugs and double compression brass cable gland where required.				
	(a) 3.5 core X 70 sq.mm. (POWER) for 60 KW charger	Set	20		

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	(b) 3.5 core X 35 sq.mm. (POWER) for 30 KW charger	Set	32		
	(c) 4 core X16 sq.mm. (POWER) for 60 KW charger	Set	36		
5	Supply, installation, testing and commissioning (SITC) of 4CX 25 sq.mm., 1100 V grade, FRLS, multi strand copper conductor PVC insulated wire in medium duty rigid or flexible PVC conduit as required preferably concealed in floor/ wall including chase cutting and making good of damages/ surface including connections, complete in all respect (MCCB to charger). for 60 KW charger	Mtr	35		
10	Supply, installation, testing and commissioning (SITC) of 4CX 16 sq.mm., 1100 V grade, FRLS, multi strand copper conductor PVC insulated wire in medium duty rigid or flexible PVC conduit as required preferably concealed in floor/ wall including chase cutting and making good of damages/ surface including connections, complete in all respect (MCCB to charger). for 30 KW charger	Mtr	65		
11	Supply, installation, testing and commissioning (SITC) of 4CX6 sq.mm., 1100 V grade, FRLS, multi strand copper conductor PVC insulated wire in medium duty rigid or flexible PVC conduit as required preferably concealed in floor/ wall including chase cutting and making good of damages/ surface including connections, complete in all respect (MCCB to charger). for 3 KW and 3.3 KW charger	Mtr	80		
12	Supply and burying of safe Earthing Electrode T-19 (hot dip Galvanised), Length 3000 mm, outer pipe 50 mm, inner pipe 25, Terminal Dia 12 mm, outer GI pipe of 16 SWG and inner GI pipe of 12 SWG with Hot dip Galvanization up to 100 micron filled with crystalline conductive mixture (CCM) having Anti-corrosive & conductive property with 50 Kgs activated soil (BFC) capable of reducing the soil resistivity with good mixture of retaining capacity along with CI Box with hinged cover and masonry housing (from electrode terminal to SW board, cost of GI strip will be extra). GI strip directly to be connected from GI pipe with double nut bolt and spring washer. Make: As approved in UPPWD & CPRI certified. (one for 2 + 8 way TPN DB in system room, one for panel safety and 02 for UPS body/ isolation transformer, one earthing to be used for genset neutral).	Set	19		
12A	SITC of 25 X 3 mm GI Strip concealed on wall/ floor up to 1st per meter point complete in all respect.	Mtr	100		
12B	Providing & installation of 1 X 10 sq.mm. PVC insulated copper wire in 20 mm PVC pipe from earth station to UPS room complete in all respect including fixing with nut and bolts (concealed on wall/ floor).	Mtr	340		
	SUB TOTAL Section-II LT panel and power cabling work				
	Section-III Allied Civil Works including foundation, painting, inuagration plate etc.				
1.	Providing and fixing of civil foundation work with brick and CC including concrete top with plaster	Cu. Mtr	20		
2.	Painting with cleaning, putty and 2 coats of exterior type paint (BERGER/ASIAN/NIPPON/ NAROLAC/ ICIC/JSW/Birla)	sq. mtr	1250		
3	Providing and fixing of name plate with LED lighting on double acrylic sheet (size 1500mm-w x 600mm-hx 85mm) as per Bank's instructions letter typing with acrylic or as advised.	sq. ft	190		
4	Providing and fixing of inaugration plate on acrylic sheet (size 900mm-w x 750mm-h) letters typing with acrylic golden color or as advised.	Sq. ft.	150		
5	Providing and fixing of L-shape 32mmx32mm x2mm angle iron stand for inaugration plate with primer and two coat painting. Height of bottom of plate shall be 900 mm from floor level and stand will be grouted 300 mm in ground with cc as per Bank's instructions	kg	285		
	Sub total Section-III Allied Civil Works including foundation, painting etc.				
1	**Sub Total section-I 60 KW DC Fast charger with two guns**				
2	**Sub Total Section-II LT panel and power cabling work**				
3	**Sub Total Section-III Allied Civil Works including foundation, painting etc.**				
	Grand Total				
					Including GST

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