

RU9604103199- Supply, I&C of Solar Biased EV Charger 18 KWp at Scooter India Limited, Lucknow.

OPEN TENDER ENQUIRY 201902851

Sl. No	Name of Work	S/I/O	Unit	Estimate Rate of BHEL	Qty	Total	Rate Quoted By Bidder	Total	Remarks
Part A General Scope									
Sl. No	Name of Work	S/I/O	Unit	Rate/ Unit	Qty	Total			Remrks
1	Services related to Supplies made by BHEL								
	Material Handling and Safe Keeping upto Installation and Handing Over to customer. Complete details as per Technical spec.	O	KW	1134	18	20412	1134	20412	
2	Installation of BHEL supplied items :								
(a)	PV Modules	I	Nos	305	64	19520	305	19520	
(b)	Inverter (10-100KWp)	I	Nos	9296	2	18592	9296	18592	Even if there is smaller than 10KWp inverters/ACDB/DCDB supplied by BHEL (5KWx3+3KWx1)- total quantity shall be counted only 02 Nos. for 18KW
(c)	ACDB (10-100KWp)	I	Nos	4676	1	4676	4676	4676	
4	Civil Pedestal								
a	Pedestal - PCC Blocks generally of Size 300*300*300 mm or more. Other support block sizes as per approved design may also be taken.	S&I	M3	14253	3	42759	14253	42759	
6	Cable Laying								
6a	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.								
6a2	6x4 Sq mm DC to 8x4 Sq mm DC	I	RMT	33	90	2970	33	2970	
6c	<u>Cable Laying rates in case excavation to be done</u> Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.								
6c1	16 Sq mm to 35 sq.mm AC	I	RMT	167	520	86840	167	86840	
7	Supply & Installation of Conduits along with all accessories for Laying of Cable through it. Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.								
7a	20 mm	S&I	RMT	84	90	7560	84	7560	
8	Supply of Trey for Cable Laying								
8c	50-95 sq.mm	S&I	RMT	170	100	17000	170	17000	
9	Supply and installation of Earthing Strip								
9b	25x3 mm GI Strip	S&I	RMT	180	300	54000	180	54000	
10	Supply & Installation of Lightening Arrestor	S&I	1No.	5400	2	10800	5400	10800	
11	Supply of Earthing Material and Installation after making of Suitable pit as per standard.								
11a	For chemical Earthing/ Conductor Earthing (Pipe)	S&I	1No.	5308	2	10616	5308	10616	
12	TESTING								
12a	Electrical Test								
12a1	String Voltage Measurement	O	KW	150	18	2700	150	2700	
12a2	Earth Resistance Measurement as per specification	O	KW	120	18	2160	120	2160	
12b	Final Installation Checks								
	LT Panel/ AC distribution Board Voltage & Current Checks	O	KW	90	18	1620	90	1620	
13	Termination of Solar Power Output for Power evacuation on existing distribution Board of Customer								
13a	To existing Board of from LT Panel/ACDB of rating Upto 50 KW by making suitable provisions.	S&I	Nos.	12000	1	12000	12000	12000	
Part B Special Scope									
2	Supply & Installation of Steel members after suit to site design by vendor for additional support or for superstructure etc. as approved by BHEL.	S&I	MT	124000	5	620000	124000	620000	
11	Maintenance of Solar RTS System								
11b	Periodic maintenance of system by cleaning of modules , checking of joints and electrical connection. Activity to be carried out at frequency of visit specified in scope (Minimum technological requirement of manpower for the work) (1) For cleaner - Matriculate (2) Electrician - ITI	O	Per Visit	4000	4	16000	4000	16000	
16	Fire fighting equipment								

AC

	Portable Fire extinguisher	S&I	1Set	10000	2	20000	10000	20000	
Part C		Items not covered in Part-A&B							
Items Covered Under Part C									
1	AC- Distribution Board 20 KWp	S	nos	21275	1	21275	21275	21275	
2	DC- Cable 1C x 4 SQM	S	mtr	31	350	10850	31	10850	
3	AC- Cable Copper 3Cx10 SQM	S	mtr	322	80	25760	322	25760	
5	AC- Cable Copper 1Cx10	S	mtr	150	65	9750	150	9750	
6	AC- Cable Copper 4Cx10	S	mtr	322	300	96600	322	96600	
7	AC- Cable Copper 3Cx2.5 SQM	S	mtr	60	124	7440	60	7440	
8	Loading and Transportation	o	lot	45500	1	45500	45500	45500	
9	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge. 60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern.	S&I	sqm	884.75	200	176950	885	176950	
10	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m. All kinds of soil	I	sqm	24.35	200	4870	24	4870	
11	Lighting Switch 5A	S&I	Nos	32	6	192	32	192	
12	Power Supply Switch 15 A	S&I	Nos	72	3	216	72	216	
13	Insttallation of Battery bank	I	SETS	673	4	2692	673	2692	
14	AC- SPD Type 2 1P+N 230 v Resopnse Time <25 nsec Imax-20kA, 8/20 Micro secs Protection Level 1 Kv	S&I	Nos	2160	8	17280	2160	17280	
15	DC- SPD Type 2 Maximum operating Volatage 600 V Response time <25 nsec	S&I	nos	1120	4	4480	1120	4480	
Total						1394080	1394080		
GST @18%						250934	250934		
Total Including GST						1645014	1645014		
QUOTED PREMIUM/DISCOUNT BY BIDDER WRT BHEL ESTIMATE (Select from drop-down menu)							PREMIUM		
in Percentage (%)							0.00%		

QUOTED Price of Bidder		₹ 1,645,014
List of Abbreviations:	*Some of the above-mentioned line items, for which quantity is indicated as zero, are in general not envisaged to be used in this project. However, under special circumstances, if project requirement warrants so, BHEL reserves the right to get the any such work completed from contractor with the same uniform discount/premium quoted by them on estimated rates of BHEL indicated in this NIT i.e on rate indicated in column "H". Such special items are indicated as OPTIONAL5. However such items shall not be considered for preparation of Comparative statement for finalization of Tender and award of contract.	
S- Supply, I - Installation, O -Others		
RMT - Running Metre		
No. - Number		
Sq Mtr - Square Metre		
KW - Kilo Watt		

Handwritten signature/initials