	Supply, Installation and commissioning	of one (1) no of 12 Watt (LED) - Single Pole Solar St	reet Light	Syste	m(For 1	to 2 nos)		
Sl/No	Description		Brand	No	Qty	Unit	Rate(rs)	Amount
50110	Module- 74 WP (ERTL and Flash Tested)		Dranu	110	Qij	CILIC	Rate(13)	Amount
	I. The PV module shall contain crystalline silicon solar co IEC 61215 II. The power output of the module(s) under STC would be	Edition a minimum of 80 Wp at a load voltage* of 16.4 ± 0.2 V						
	III. The open circuit voltage* of the PV m IV. The module efficie V. A bird spike shall be provided to avoid bird sitting on t struct	ncy would be 14.5% ne solar module at the highest point of the array/module	Websel					
	VI. SPV module shall be highly reliable, lightweight and modules shall have a limited power loss of not more than	I shall have a service life of more than 25 years. SPV 10% of nominal output at the end of 10 years and not	Websol / Emmvee / Vikram			Watt-		
1	WII. The solar module shall be able to withstand the following environmental conditions normally encountered at site – Temp. extremes ranging from -100 C to +850 C Wind load – 200 km/h Maximum mean hourly rainfall of 40 mm Humidity level upto 95%, Lightning arrester VIII. Strip must contain the following details a) Name of Manufacturer b) Model or type number c) Serial No. d) Year of make		/Any MNRE Approve d	1	74	Watt- Power	65	4,810.00
	Batte	rv.						
2	12V/75 Ah @ c/10 Discharg		Exide/A maron/A ny MNRE Approve	1	75	Amp- Hour	108	8,100.00
			d					
	Dusk-to-Dawn Charge Controller with inverter & I. Battery over charge	· · · · · · · · · · · · · · · · · · ·	Any MNRE					
3	II. Battery deep dische III. Short circuit protection IV. Protections against battery rever V. Load reconnects facility	rge cut off: 11.65V inbuilt with the system. te polarity inbuilt with the system.	approved manufact urer	1	1	No	700	700.00
4	A CONTRACTOR OF THE CONTRACTOR	LODDW IN LT. ()						
	Luminary-12Watt-(W) LED- Ba I. LED Luminaries must be to prevent II. The light source will be of white LED type. The lumino lumen/watt. Use of LEDs, which emi III. The light must b IV. The light output should remain constan V. The make, model number and technical ch	water seepage and entry of Insects. us performance of LEDs used should not be less than 30 tultraviolet light, must be avoided e ERTL – Tested twith variations in the battery voltages.	Any MNRE approved manufact urer	1	1	No	3500	3,500.00
	Battery	Box						
5	I. Battery box should be ma II. The battery box shall be painted with acid proof corre cleaning & pri III. The size of the box sho IV. Arrangement for proper ventilation she V. Box should be provided with proper locki VI. Two wooden battens should be fixed inside the battery the be	osion resistant paint. It shall be painted after chemical mer coating. Ild be as per battery size ald be provided on each side except top ng arrangement for anti theft arrangement box to avoid electrical contact with between battery and	Any MNRE approved manufact urer	1	1	No	1000	1,000.00
	the b	DX						
6	GI Pole (Folding) with Module M		Any MNRE approved	1	1	No	4500	4,500.00
	I. A corrosion resistant metallic frame structure m II. The frame structure must have provision to adjust its an that the module can be oriente III. Pole height: 5.5 Mtr. (Dia = 76 mm X 60 m) With gro	gle of inclination to the horizontal between 0 and 45, so d at the specified tilt angle.	manufact urer					
7	Cabl 2C 2.5 Sq.mm for battery charging &	<u>e-</u>	any ISI brand	1	8	Mtr	40.25	322.00
8	Display for descri	ption of works	Local Made	1	1	No	500	500.00
9	Civil V Concreting of 300 mm column structure Transportation, Installation, Testi	upto 1.8 mtr from bottom of the pole	As per calculatio	1	1 LS	No	1253	1,253.00
	d Cost (A):	ig & Commissioning of System	On Road		LS			2,000.00
11	Maintenance Cost of Solar Lights for each year (upto five years)							•
11.a	For 1st Year @ 2% of the estimated cost							534.00
11.b 11.c	For 2nd Year @ 2% of the estimated cost For 3rd Year @ 2% of the estimated cost							534.00 534.00
11.d	For 4th Year @ 2% of the estimated cost							534.00
11.u	For 5th Year @ 2% of the estimated cost							534.00
Total mai	intenance Cost of each Solar Light for five years (B):							2,670.00
TOTAL I	ESTIMATED COST OF EACH SOLAR LIGHT (A +							29,355.00

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1	All the system are manufactured as per MNRE specification and ERTL and Flash Tested, Govt. of India.	
2	Duty Cycle: Dusk to Dawn	
3	Autonomy: 3 days or Minimum 42 operating hours per permissible discharge.	
4	The street lighting system (including the battery) will be warranted for a period of five years from the date of supply. (The PV modules would be warranted for their output peak watt capacity 90% at the end of Ten (10) years and 80% at the end of Twenty five (25) years.)	
5	The whole system shall be maintained at free of cost for successive five years from the year of installing. The cost of AMC is included in the estimate.	
6	Rates are inclusive of all taxes.	
7	S.D(10%) Money Deducted from Estimate Cost(A)	