

SOLAR HIGH MAST LIGHTING SYSTEM

GENERAL TECHNICAL SPECIFICATION:

A Solar PV White- LED High Mast Light consist of white LED luminary of maximum 4*18 Watt (LED + Driver) as per configuration along with solar PV modules and battery of given capacity, necessary control electronics-inter connecting wires / cables, module mounting structures etc. to operate the load for dusk to dawn. The broad performance specifications of a White Light Emitting Diode (W-LED) light source based solar High Mast lighting system are given below

BROAD PERFORMANCE PARAMETERS

PV Module	Only indigenous modules shall be used in the Project. SPV module aggregate capacity 440 Wp (110 Wp X 4 Nos.) at under STC. Module Voc minimum of 21V.
Battery (Li-fe-Po4)	Lithium Ferro Phosphate battery aggregate capacity 12.8 Volt, 200AH (50AHx4 nos.) 12.8 Volt 50 Ah of one unit.
Light Source	White Light Emitting Diode (W-LED) 4x18 Watt (LED +Driver) Using LEDs which emits ultraviolet light will not be Permitted
Light Out put	White colour (colour temperature 5500-6500 K). Lumen efficacy of LED- min 135 lumens/Watt @350 mA. The illumination should be uniform without dark bands or abrupt variations, and soothing to the eye. Higher light output will be preferred.
Average duty cycle	Dusk to dawn

Name of venders and Approved rates for Supply, Installation and commissioning with five years comprehensive warrantey of Solar High Mast Lighting system for the year 2019-20

Sl.no.	Name and address of firm	Approved Rate per system
1	M/s Abhishek Solar Industries Pvt. Ltd., Lower Vidyapati Nagar, Opp. Dream Apartment, Kanke Road, Ranchi-834008	Rs. 1,17,105.00
2	M/s Shri Ramswaroop Multi Engineering Solutions Pvt.Ltd., A-12, Nirala Nagar, Lucknow-226020	
3	M/s Easy Photovoltech Pvt.Ltd., "Sun Park"Khasra No.98,Sikhera Road Industrial Area, Modinagar, Ghaziabad-201204	
4	M/s E-sharp Solar Solution Pvt. Ltd., 59/2/13, Sansar compound, site-4, Ghaziabad-201010	

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