

## 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**

<b>Sl.no.</b>	<b>Name and address of firm</b>	<b>Approved Rate per system</b>
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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