



BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM : HYDERABAD – 502 032

SPECIFICATIONS OF LED flood LIGHT LUMINARIES

**PROCUREMENT OF LED LUMINARIES of 200W OF FLOOD LIGHTS WITH FITTINGS
(ALL ACCESSORIES) BHEL Hyderabad.**

1. OBJECTIVE:

To procure LED luminaries **FLOOD LIGHTS** for BHEL Hyderabad of 200W Luminaires.

2. BRIEF DESCRIPTION:

2.1 **LED flood Light luminaries** for BHEL Hyderabad, fixed at height 8-10 meters, to be used for lighting purpose in the Township grounds (Basketball court, Volleyball court, badminton court & tennis court).

**DETAILED SCOPE AND GENERAL TERMS & CONDITIONS FOR PROCUREMENT OF
LED flood LIGHT LUMINARIES**

Specifications		Supplier's confirmation
3.1	Supplier to confirm supply, Erection of LED flood Lighting Luminaire of not exceeding 200 W Luminaires. The LED driver should be BIS Approved driver. Note: In case the supplier has any deviation the supplier will be technically rejected.	
3.2	Supplier should be Original manufacturer of LED luminaries or Authorised dealer of the original manufacturer of LED Luminaries. <i>Supporting documents should be submitted.</i>	
3.3	The vendor should have executed at least two orders for supply of similar LED flood Light Luminaire. PO copies for the same may be <i>submitted along with technical bid.</i>	
	Technical details Fixture make: HPL/Crompton/GE/WIPRO/Bajaj/Philips	



BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM : HYDERABAD – 502 032

SPECIFICATIONS OF LED flood LIGHT LUMINARIES

4.1	LED flood Light luminaries consisting of in built electronic control gear and wiring up to terminals. Input Wattage, 200W, Input frequency 45~55HZ	
4.2	Input Voltage range shall be 1 phase, 240 Volts AC, 50 Hz. Operating voltage 100V-285V AC, Input current 850 mA	
4.3	LEDs used in manufacturing of Luminaries should be of Cree, Nichia, Seoul, Osram, Samsung, and Lumileds makes only.	
4.4	Lumens per watt for the LEDs shall be greater than 159. Wide beam angle 120 degrees.	
4.5	System lumens should be >100lm/W	
4.6	Total lumens should be not more than 20000 lumens	
4.7	LM79 test report from NABL accredited laboratory for the Luminaries offered, should be <i>attached along with Material supply. The offered luminaire should be the same as LM79 report.</i>	
4.8	LM80 test report of LED's from Manufacturer should be <i>attached along with Material supply.</i> Also the Lot to be mentioned.	
4.9	IP65 test report for the luminaries from NABL accredited laboratory should be <i>attached along with Material supply.</i>	
4.10	Electrical parameters test report for P.F and THD should be provided from NABL accredited laboratory should be <i>attached along with technical bid.</i>	
4.11	P.F (Power Factor) should be greater than or equal to 0.95	



BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM : HYDERABAD – 502 032

SPECIFICATIONS OF LED flood LIGHT LUMINARIES

4.12	THD (Total Harmonic Distortion) should be less than or equal to 10%. LED beam angle: Wide beam angle: 120 degrees.	
4.13	Internal Surge Protection for the luminaries for at least 4KV should be provided.	
4.14	External Surge Protection for the luminaire for 10 KV should be provided	
4.15	The Fixture should be compatible retrofitted on existing pole arm. Vendor may visit BHEL premises and look the existing poles and extensions.	
4.16	LED colour temperature should be between 5500K to 6500K	
4.17	Pre-despatch inspection will be conducted at the discretion of BHEL.	
4.18	Glass- Toughened, IK07	
4.19	Material for fixture: High grade Aluminium die cast	
	Warranty clause:	
	A 5 year warranty to be provided for the LED flood lights after commissioning. Supplier shall confirm availability of spares and their replicability for the independent parts of the luminaire in case of any fault within 48 hours of complaint during 5 years warranty duration. Vendor shall repair the luminaires INSITU. Vendor to provide service contact mobile no./landline no after placement of purchase order	



BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM : HYDERABAD – 502 032

SPECIFICATIONS OF LED flood LIGHT LUMINARIES

	Certificates	
	Warranty certificates to be submitted along with material supplied.	