

## **ANNEXURE - I**

Maintenance free, high energy efficient LED highbay lights suitable for suspended mounting with suspension or eyebolt.

### **Following details to be furnished along with the offer:**

a	Make		Vender to specify
b	Model No.		Vender to specify
c	Country of origin and technical characteristics (including <b>LM-80 Test Report</b> for the offered make) of LEDs.		Vendor to attach
d	Sample test report of LED driver as per IS 15885 Part-2 from NABL accredited lab		Vender to attach
e	Valid Dealership Certificate		Vender to attach
f	Warranty	24 Months (from the date of acceptance at BHEL stores)	Vender to confirm

### **Technical Specification:**

Sl. No.	Specification	Vendor to specify/confirm
<b>I. <u>Housing, Mounting, Accessories</u></b>		
1	Mounting Type	Vender to specify
2	Body Material	Vender to specify
3	Reflector Material	Vender to specify
4	Luminaire Dimention (mm)	Vender to specify
5	Installation Height (meter)	12 to 18 Vender to confirm
6	Type of Protection (IP Code)	IP 65 or better Vender to specify
<b>II. <u>Electrical Parameters:</u></b>		
1	Driver Type & Efficiency	Vender to specify
2	Input AC Voltage (V)	Rated Voltage : 220 - 240 Working Range : 160- 260 Vender to specify
3	Supply Frequency (Hz)	50±3% Vender to confirm
4	Wattage (W)	200±10% Vender to specify
5	Power Factor	≥ 0.90 Vender to confirm
6	THD	≤ 10% Vender to confirm
7	Driver Protections	Surge/Short Circuit/ Over Voltage Vender to specify
<b>III. <u>Optical Parameters:</u></b>		
1	LED Make	Vender to specify
2	LED Viewing	High spread beam angle ≥ 120 deg Vender to specify
3	CRI of LED	≥ 70 Vender to specify
4	Luminare Lumens Output (lm / Watt)	≥ 85 Vendor to specify
5	LED Efficacy (lm / watt)	≥ 95 Vender to specify
<b>IV. <u>Other Parameters:</u></b>		
1	Operating Temperature	0 to 50 °C Vender to specify
2	Burning Hours	Min 50,000 hrs. at L70B50. Vender to specify

*Deepak Kumar*  
DEEPAK KUMAR BARNWAL  
Sr. Engineer / M & S (Electrical)  
PPPU - BHEL  
THIRUMAYAM - 622 507.