

Technical Specification

40 watts LED Street light Fitting having following specifications:-

- (1) **Application:** Outdoor and maintenance free
- (2) **Material construction and finish:** Epoxy powder coated compact High Pressure Die cast Aluminium Body UV Stabilized polycarbonate / Heat resistant toughened glass cover fixed with SS screw.
- (3) **Degree of Protection:** IP-65 Class-1
- (4) **Driver:** Integrated driver built into fitting /fixture
- (5) **Voltage Range:** 150-260 Volt, AC, 50 Hz
- (6) **Power factor** =0.9 or more
- (7) **Lumen Output:** 3000 or more at 40 Watt +/- 15 % power consumption at more than 0.9 power Factor.
- (8) **Colour Temperature:** 6000 K or more
- (9) **Colour Rendering Index CRI:** 70 or more
- (10) **Mounting:** Side entry suitable for 50 to 55 OD pipe bracket
- (11) **Optics:** Integrate optics having High spread beam angle 120° or more
- (12) **Surge protection:** 4KV or more
- (13) **Warranty:** 36 Months from the date of receipt of material at BHEL, Haridwar
- (14) **The complete Fixture should confirm:** LM-79 test report for luminaire ( clearly mentioning the values for point 5 to 11)
- (15) **Wattage:** 40 watts +/- 15 %
- (16) **LED Make:** OSRAM (Germany)/CREE (US)/Nichia (JAPAN)/BRIDGELUX (USA)/ LUMILED / TOSHIBA
- (17) **Document:** party shall submit the product catalog and complete specifications of offered LED Street light along with offer.

Technical Specification

60 watts LED Street light Fitting having following specifications:-

- (1) **Application:** Outdoor and maintenance free
- (2) **Material construction and finish:** Epoxy powder coated compact High Pressure Die cast Aluminium Body UV Stabilized polycarbonate / Heat resistant toughened glass cover fixed with SS screw.
- (3) **Degree of Protection:** IP-65 Class-1
- (4) **Driver:** Integrated driver built into fitting /fixture
- (5) **Voltage Range:** 150-260 Volt, AC, 50 Hz
- (6) **Power factor** =0.9 or more
- (7) **Lumen Output:** 5000 or more at 60 Watt +/- 15 % power consumption at more than 0.9 power factor.
- (8) **Colour Temperature:** 6000 K or more
- (9) **Colour Rendering Index CRI:** 70 or more
- (10) **Mounting:** Side entry suitable for 50 to 55 OD pipe bracket
- (11) **Optics:** Integrate optics having High spread beam angle 120° or more
- (12) **Surge protection:** 4KV or more
- (13) **Warranty:** 36 Months from the date of receipt of material at BHEL, Haridwar
- (14) **The complete Fixture should confirm:** LM-79 test report for luminaire ( clearly mentioning the values for point 5 to 11)
- (15) **Wattage:** 60 watts +/- 15 %
- (16) **LED Make:** OSRAM (Germany)/CREE (US)/Nichia (JAPAN)/BRIDGELUX (USA)/ LUMILED / TOSHIBA
- (17) **Document:** party shall submit the product catalog and complete specifications of offered LED Street light along with offer.

## Technical Specifications of LED High Bay Light

S.No.	Description & Specifications	Required	Offered by Party	Deviations
1	<b>Technical Specifications :-</b>			
1.1	Rating of LED Highbay Light Fixture	80-100 Watt		
1.1 (a)	Make of LED High Bay Light			
1.1 (b)	Model of LED High Bay Light			
1.2	Input Voltage	220 V AC $\pm$ 5% / 50 Hz, Single Phase		
1.3	Power Factor	0.9 or more		
1.5	Total System Lumens	7200 Lumens or more		
1.6	Correlated Color Temperature (CCT)	5000K - 6500K		
1.7	Color Rendering Index (CRI)	70 or More		
1.8	Total Harmonic Distorsion (THD)	20% or Less		
1.9	Optics	Integrate optics having High spread beam angle of 90° or more		
1.10	LED Make Acceptable	CREE / NICHIA / BRIDGELUX / PHILIPS LUMILEDS / OSRAM / TOSHIBA		
1.11	Electrical Protection	Short Circuit , Over voltage , Under voltage		
1.12	Lamp Housing	Pressure Die cast aluminum housing with heat resistant toughened glass cover and efficient heat sinking material.		
1.13	Ingress Protection	IP-65 or greater		
1.14	Mounting	Roof Mounting with Single Point Mounting arrangement with Eye Bolt or J-Hook. All items required for mounting to be supplied by the party.		
1.15	Driver	Constant Current output integrated driver built into fitting / fixture and should be field replaceable.		
2	<b>Test Compliance :</b> Following certificates shall be provided along with the offer.			
2.1	For Luminaire	LM 79 Test report for luminaire ( Clearly mentioning the values for point No. 1.1 to 1.9) from NABL approved laboratory.		
2.2	For LED Module	LM 80 Test report from LED chip manufacturer		
3	Documents	Party shall submit the product catalog and complete specifications of the offered LED High Bay Light along with the offer		
4	Warranty	36 Months Warranty from the date of dispatch or 30 months from the date of receipt of material at BHEL Haridwar whichever is earlier. Warranty should be on complete supplied unit.		

\*\* The Name Plate on the items to be Printed / Embossed/engraved / revetted.