

4832165/2025/O/o Dy.CEE/BLO/SCF SPECIFICATION FOR 18/20 W OUTDOOR LED fitting

SN	Parameters	Technical Specifications
1	LED make	Nichia/Osram/Samsung/Lumileds/Cree/Bridgelux/Seoul or any other LED with LM-80 certified by National/International accredited Certifying agencies
2	Type LED	High Power LED, SMD(Surface Mounting Device)
3	System Lumen Output/Efficacy	≥ 140 Lumens/Watt
4	LED Life	≥ 50000 burning hours
5	Depreciation	30% max, after 50,000 burning Hours
6	Beam Angle	≥ 140 degrees along with road ≥ 80 degrees across the road
7	Rated Voltage	220- 240 V AC
8	Input Operating Voltage	140-300 V AC (Auto restart)
9	Control of Distribution	Fully Cut off
10	Driver type	Constant current potted driver with short circuit protection with inbuilt high and low voltage cut off
11	Surge Protection	Internal ≥ 4 kV and External ≥ 10 kV SPD
12	Driver components	Industrial grade only
13	THD	≤ 10%
14	Efficiency of Driver Electronic	≥ 85%
15	Correlated colour temperature(CCT)	5000 - 6500 K
16	Colour rendering Index	≥ 70%
17	Power factor	≥ 0.95
18	Construction of Housing	Pressure Die-Cast Aluminium/Extruded Aluminium
19	Finishing	Powder coated
20	Lamp cover	High efficacy, UV stabilized Poly carbonate of thickness ≥ 1.5 mm & Transparency ≥ 95%
21	Secondary optics	Polycarbonate lens/Silicone
22	Ingress protection	IP 66
23	Impact resistance	IK 07
23	Mounting	Suitable for existing Pole/Truss/Lantern mounted
24	Warranty (for free replacement)	5 Years from the date of Supply. Firm shall submit warranty(for free replacement) certificate for five years along with the supply.
25	Test reports	<ol style="list-style-type: none"> 1) NABL test reports for LED luminaire shall be submitted. Driver performance requirements to IS:16104/IEC:62384 & Driver safety requirements to IS:15885/IEC:61347. Firm shall submit Driver performance/Safety from NABL/BIS. 2) Firm shall submit LM79/IS:16106 test reports for luminaire from NABL accredited laboratory and LM-80/IS:16105 test reports for LEDs should be from accredited national/international certifying agencies. LM79 report with wattage variation upto +/- 5% of the specified rating is acceptable. 3) Firm shall submit BIS CRS compliance as per IS 15885 (Part 2/Sec 13) 4) Firm shall submit photo-biological safety certificate of LEDs as per IS:16108/IEC:62471