COCHIN PORT AUTHORITY

Govt of India

BOQ - 120 W STREET LIGHT

SL NO	ITEM DESCRIPTION	QTY	UOM	RATE	AMOUNT
1	120 W STREET LIGHT AS PER THE SPECIFICATION GIVEN BELOW	100	NOS		

GST IF ANY SHALL BE MENTIOED SEPERATELY

SPECIFICATION

Parameter	Technical Requirement
Type of Light	Pipe Mounted Street Light
Maximum System Power	120 Watts
Total Luminous Flux	Minimum 16,800 lumens
Correlated Color Temp (CCT)	5700 K
Color Rendering Index (CRI)	≥ 70 (Ra)
Beam / Light Distribution	Secondary optics
LED Lifetime / Burning Hours	≥ 75,000 burning hours @ 70 % Lumen maintenance (L70, B10 at Ta = 35 Deg C).
Ingress Protection (IP)	IP66.
Impact Resistance (IK)	IK 08.
Operating Voltage Range	140V - 270V AC, 50 Hz single phase.
Power Factor (PF)	0.95 at full load.
Total Harmonic Distortion (THD)	< 10%.
Surge Protection Device (SPD)	Dual Protection (Internal + External): • Internal SPD: Built-in driver protection 4kV • External SPD: Separate 10 kV
Driver	Single Driver, Should be atleast 110 % of LED Power, short-circuit, open-circuit, over-voltage, and over-temperature protection MODEL SPECIFIED BIS CERTIFICATE. Driver As per IS 15885/IEC61347
Housing Material	High-pressure die-cast aluminum housing offering high thermal conductivity, finished with weather-resistant, anti-corrosive epoxy/polyester powder coating (gray/dark gray color). Corrosion-resistant stainless-steel hardware (SS 304) must be used throughout.
Cover	High-efficiency optical grade UV-stabilized Polycarbonate
LED	Single PCB
Luminaries general requirement	As per IS 10322/IEC 60598
Warranty	5 years from the date of receipt from the Manufacturer.
Make	LED : OSRAM, BRIDGELUX,LUMILED,NICHIA

Manufacturer should have OWN NABL Laboratory

Luminaire and Driver shall be seperatley BIS approved