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DESCRIPTION: 90W LED STREET LIGHT LUMINAIRE

SPECIFICATION:

Parameters	Tender Requirement	Firm's offer
ELECTRICAL		
Rated Wattages	90W	
AC input Voltage Range	100-300 VAC	
Operating Frequency Range	47-55 Hz.	
Total Harmonic Distortion (%)	<10%	
Power Factor	>0.95	
Efficacy	100 Lumen/Watt	
Short Circuit Protection	Yes	
Open Load Protection	Yes	
Reverse Polarity Protection	Yes	
Over temperature protection	Thermal Cut off @ Tc + 5 Deg. C	
Input Surge Protection (CM & DM)	5 KV built-in/ 8kV (External - inside the control gear)	
Driver Type	Constant current drivers, top maintainable driver compartment.	
Driver efficiency	driver efficiency >85%	
OPTICAL		
LED Chip	CREE/OSRAM/PHILIPS LUMILEDS/NICHIA/SEOUL/LEDNIUM	
No. of LED's	50 ± 10 Nos. (Per fixture, LED's should be from the same bin for colour consistency)	
Luminous Efficacy (Lm/W)	≥ 100 lm/W	
Color Temperature Range (K)	5700 ± 300	
LED chip efficacy (Lm/W)	>130lm/W	
CRI	70± 2	
ENVIRONMENTAL		
Working Temp. Range	-10 to 45° deg C	
Temperature	85° C	
Max Allowable Junction temperature	150° C	
Life Time at Junction Temperature of 85° C based on LM-80 report from LED Chip manufacturer	>50000 Hours	
MECHANICAL		
Frame/Housing	Pressure die-cast Aluminum housing with BRAND should be available on the PDC housing for Traceability till life period (Screen Printing and Sticking will not be allowed).	
Lens	Secondary Lens with Peanut optics to match with exact beam angle	
Front Cover	Toughened Glass	
IP Grade	IP 66	
Impact resistance	IK 07	
Warranty clause	5 Years	

Certificates required along with the tender	Firm's Compliance
Source manufacturers authorization certificate	
LM 79 from third party NABL Lab	
LM 80 report from source manufacturer	
BIS certification for electrical safety for drivers	
Type test report as per IS 10322/60598	
ISO certifications of manufacturer/Vendor	
Technical data sheet for the above product.	