

Annexure -A

Technical specification

Technical Specification		Vendor please tick/ comment	Remarks
LED street light fitting of 20 watt $\pm$ 10%, Energy saving LED street light fitting of 20 watt $\pm$ 10%, 50 HZ, 240 volt AC. Luminaire housing is of die cast Aluminium alloy for housing (heat shrink) with higher thermal conductivity for better heat dissipation. Body must be Corrosion Resistant Powder Coated Working lifetime of fitting should be over 50000 burning hours and it use active power factor correction (APFC) electronic gear (electronic drive). Fitting should be suitable for pole dia up to 50mm. Fitting should meet the following specification:			
Material construction and finish: High power LED flood light with pressure die cast aluminium housing.		Yes/no	
Degree of Protection: IP-66 Class-1		Yes/no	
Driver: Powered separate electronic driver (Replaceable)		Yes/no	
Voltage Range: 150-260 Volt, AC, 50 Hz		Yes/no	
Power factor =0.9 or more		Yes/no	
Lumen Output: 120 lumen per watt or more		Yes/no	
Colour Temperature: 5700K OR MORE		Yes/no	
Colour Rendering Index CRI: 70 or more		Yes/no	
Mounting: Pole mounting		Yes/no	
Optics: Integrated optics having High spread beam angle		Yes/no	
Surge protection: 5 KV or more		Yes/no	
Wattage: 20 watts +/- 10%		Yes/no	
LED Make: NICHIA/ OSRAM/ CREE/ PHILIPS/SEOUL/ LUMILED/EDISON/TOSHIBA Nichia (JAPAN)/BRIDGELUX/ EVERLIGHT or Equivalent		LED MAKE	
Document: Party shall submit model details along with product catalogue, technical data sheet and complete specifications of offered LED Street light along with offer		Model no.	
LM 79 ,LM80, from NABL accredited Lab. only (copy required)		Yes/no	
Life Span	50,000 Burning Hrs. @ L70	Yes/no	
Mounting System	Pole mounting	Yes/no	
Housing	Aluminium Die Casting-LM6 or better	Yes/no	
Driver operation	Constant Current, Isolated Drivers	Yes/no	
Driver operation	Constant Current, Isolated Drivers		
Warranty 36 months from the date of dispatch		Yes/no	

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Annexure -4		
Technical specification		
120 Watts LED flood light Fittings	Vendor please tick/ comment	Remarks
Material construction and finish: High power LED flood light with pressure die cast aluminium housing.	Yes/no	
Degree of Protection: IP-66 Class-1	Yes/no	
Driver: Powered separate electronic driver (Replaceable)	Yes/no	
Voltage Range: 150-260 Volt, AC, 50 Hz	Yes/no	
Power factor =0.9 or more	Yes/no	
Lumen Output: 100 lumen per watt or more	Yes/no	
Colour Temperature: 5700K OR MORE	Yes/no	
Colour Rendering Index CRI: 70 or more	Yes/no	
Mounting: angle base mounting having 180 degree adjustment	Yes/no	
Optics: integrated optics having High spread beam angle	Yes/no	
Surge protection: 5 KV or more	Yes/no	
Wattage: 120 watts +/- 10%	Yes/no	
LED Make: NICHIA/ OSRAM/ CREE/ PHILIPS/SEOUL/ LUMILED/EDISON/TOSHIBA Nichia (JAPAN)/BRIDGELUX/ EVERLIGHT or Equivalent	LED MAKE	
Document: Party shall submit model details along with product catalogue, technical data sheet and complete specifications of offered LED Street light along with offer	Model no.	
LM 79 ,LM80, from NABL accredited Lab. only (copy required)	Yes/no	
Life Span	50,000 Burning Hrs. @ L70	Yes/no
Mounting System	FLAT mounting	Yes/no
Housing	Aluminium Die Casting-LM6 or better	Yes/no
Driver operation	Constant Current, Isolated Drivers	Yes/no
Driver operation	Constant Current, Isolated Drivers	
Warranty 36 months from the date of dispatch	Yes/no	

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(39 8 hrs 50 mins)
(30 Nov 19 / 12.30 PM)

PQR (Pre- Qualification Requirement)

Indent No: 20193313 & 20193314	
Sl No.	Description
1.	Bidder should be manufacturer of LED Light Product OR Authorised Channel partner/ authorised System House/ authorised Distributor / authorised Dealer / authorised Supplier of manufacturer of LED Light Product. Authorized Letter from concerned manufacturer shall be submitted in Techno-commercial bid. (Authorization letter submitted should not be later than enquiry floating date of BHEL). Name of manufacturer should be clearly mentioned in Techno-commercial bid.
2.	Bidder shall have the experience of Supply / Supply, installation and commissioning of LED Street Lights of 20 Watt or more * of quantity 600 Nos or more (in a single order) OR Supply / Supply, installation and commissioning of LED Flood Lights of 120 Watt or more * of quantity 90 Nos or more (in a single order). * Order consisting different wattage LED Street Lights / LED Flood Lights shall also be acceptable. Purchase Order (<u>along with Invoice</u>) / Work Order (<u>along with Completion Certificate</u>) must not be older than 02 Years from the date of opening of tender). Copy of Work order / Purchase order of Bidder's customer for above mentioned experience shall be submitted in Techno-commercial bid. Only Work order / purchase order placed on Bidder's name shall be eligible for participation.

11/12/2011
(date - 11/12/2011)

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