

RA Document

RA Details	
RA Technical End Date/Time	05-11-2018 11:00:00
Ministry/State Name	Ministry Of Railways
Department Name	Na
Organization Name	N/a
Office Name	Lucknow
Total Quantity	258
Item Category	LED Luminaire (Recessed Luminaire)
Experience with Gov. Required	3 Year (s)
MSME Exemption For Years Of Experience And Turnover	Yes

LED Luminaire (Recessed Luminaire) (258)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Allowed Values
STANDARDS	Conformity to Indian Standard	IS:10322/part 5/sec-2/2012 and IS 16107 (Part 2/Sec 1) : 2012 for Recess type	*
	Photo biological safety of LEDs used shall be as per IS:16108/2012 (exempt group)	Yes	*
	DC or AC supplied electronic control gear for LED Module shall comply as per IS:15885 (Part 2/Sec.13)	Yes	*
	Luminaire Class (as per Cl. 2.1 Section 2 of IS: 10322 (Part-1)	Class I	*
	Types of LED Modules as per the IS: 16103(Part-2)/2012	Type 3	*

	Rating of Recess type LED Luminaire/System Wattage/Rated Power	36W	36W
	Light Intensity(System Lumens) 80 Lm/Watt for 3000 deg K, 90 Lm/Watt for 4000 deg K, 100 Lm/Watt for 6000 deg K	Yes	*
	Color temepature (+/- 500 K)	6000 deg K	*
	Type of fixture (in feet)	2x2(30W to 48W)	2x2(30W to 48W)
CONSTRUCTIONAL	Ingress Protection (IP Rating) as per IS:10322 (Part 1):1982 latest (Minimum)	IP20	*
	Mounting type	Recess type	*
	Diffuser material	Poly carbonate (UV stabilised)	*
	The luminaire body must be corrosion resistant epoxy powder coated / anadozing	Yes	*
	All fastners must be of nickel/chrome plated	Yes	*
	Number of electronic control gear (power supplies)	1	*
	Light Source	SMD LED Chip as per LM 80/IS16106	*
	Warranty for free replacement	2 Years	*
ELECTRICAL EFFICIENCY MANAGEMENT	Operating Voltage and frequency range	140V to 280 V at 50 Hz AC	*
	Rated voltage	230 V AC 50 Hz	*
	AC Power Factor	≥ 0.90	*
	Driver Efficiency	≥85	*
	Total Harmonics Distortion (≤ 20% (for upto 20W) (=10% (for above 20W)	Yes	*
	The total circuit power shall not be more than 110 percent of the value declared by the	Yes	*

	manufacturer (as per CI 8 of IS:16104:2012 lates)		
OPTICAL MANAGEMENT	LED chip Efficacy (≥ 130 Lm/Watt for 6000 deg K, ≥ 120 Lm/Watt for 4000 deg K, ≥ 110 Lm/Watt for 3000 deg K)	Yes	*
	Working life for LED : (Minimum 50,000 burning hours as per LM-80 report)	Yes	*
	Colour Rendering Index(CRI)	≥ 80	*
	Beam Angle	≥ 120	*
	Reflector type	Diffuser	*
THERMAL MANAGEMENT	Fixture / Luminaire should be die-cast aluminium /CRCA/Extruded aluminium	Yes	*
	Capacitor shall be rated for a temperature of 105 deg. celsius or better	Yes	*
	Junction temperature / soldering temperature		*
	Operating temperature range	-10 deg. C to +50 deg. C	*
	Humidity Range	10 % to 95% RH	*
PROTECTION	Short circuit Protection	Yes	*
	Over load protecton	Yes	*
	High voltage test (1.5 KV for one minute between supply terminals and body of the unit)	Yes	*
	Insulation resistance between earth and current carrying part	>100 M ohm	*
	The luminaire shall be protected against surges and transients of ≥ 2.5 KV	Yes	*
MARKING	Manufactures Name and brand shall available on the body of the Luminaire	Engraved/Embssed	*

REPORTS AND CERTIFICATIONS	Each LED luminaire shall have the manufacturer's name, model number, serial number, date of manufacture (month-year), and lot number as identification mark inside each unit and the outside of each packaging box	Yes	*
	The operation characteristics such as rated voltage and rated power in watts shall be marked inside each LED luminaire unit	Yes	*
	LED Make	EVERLIGHT / EDISON / BRIDGELUX / NATIONSTAR / SEOUL / SAMSUNG / OSRAM / REFOND / NICHIA / CREE / LUMILEDS / PHILIPS / SYSKA / LUMENMAX	*
	LM 79 (Photometry) (Ref.IS:16106:2012) report from Central Government LAB /NABL/ILAC accredited lab. Reports shall be furnish to the buyer on demand (LM-79 report shall have total lumen output, power, PF, Current in Amps, CRI & CCT etc.,)	Yes	*
	LM 80 & TM21 (Ref. IS:16105:2012) Report and Photo biological report for LED report from Central Government Lab /NABL/ILAC accredited lab. Reports shall be furnish to the buyer on demand (LM-80 report shall have the Photo Biological report of the LED Chip being used in the luminaire)	Yes	*
	Availability of test Report from Central Government Lab	Yes	*

	/NABL/ILAC accredited lab to Indian Standard IS:10322/part 5/sec-2/2012 and IS 16107 (Part 2/Sec 1) : 2012		
	Seller has to furnish Type test report to the buyer on demand	Yes	*
	DC or AC supplied electronic control gear for LED Module shall comply as per IS:15885 (Part 2/Sec.13)	Yes	*
	LED Luminaire for recess type shall comply with Compulsory Registration(CRS) of BIS for safety as per IS 10322 (Part 5/Section 2): 2012 as applicable on date	Yes	*

* Bold specifications are the golden parameters.

Consignees and Quantity

S.No.	Consignee	Address	Quantity	Delivery Days	
1	Raghvendra Kumar	226001,Office of the Divisional Railway Manager, North Eastern Railway	258	60	N/A

EMD Detail

Required	No
----------	----

ePBG Detail

Required	No
----------	----

Splitting

RA splitting not applied.

Buyer Specific Additional Terms and Conditions

- 1. Scope of supply (Bid price to include all cost components) :** Only supply of Goods
- 2. Inspection charges shall be borne by the supplier and it shall not be reimbursed by indenter to them at any point in time. Cost of inspection shall be factored in by the supplier in the cost of the product itself while submitting bid. The inspection agency will conduct the inspection and submit the certificate to the supplier as well as the buyers and consignees. The bidder will be solely responsible for pre-inspected material for Quality Assurance including pre-despatch inspection/ testing at manufacturer's site by RITES**

[This RA is also governed by the General Terms and Conditions](#)

---Thank You---