

### Bid Document

Bid Details	
Bid End Date/Time	30-10-2019 13:00:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	60 (Days)
Ministry/State Name	Ministry Of Railways
Department Name	Na
Organisation Name	N/a
Office Name	Southern Railway
Total Quantity	30
Item Category	LED Luminaire (Recessed Luminaire)
MSE Exemption For Years Of Experience And Turnover	No
Startup Exemption For Years Of Experience And Turnover	No
Bid to RA enabled	No

### LED Luminaire (Recessed Luminaire) ( 30 pieces )

#### Technical Specifications

[\\* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (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	Yes	*

	(Part 2/Sec.13)		
	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	*
	<b>Rating of Recess type LED Luminaire/System Wattage/Rated Power</b>	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	*
	<b>Type of fixture (in feet)</b>	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	3 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 ( $\leq 20\%$ (for upto 20W) ( $\leq 10\%$ (for above 20W)	Yes	*
	The total circuit power shall not be more than 110 percent of the value declared by the manufacturer (as per Cl 8 of IS:16104:2012 lates)	Yes	*
OPTICAL MANAGEMENT	<b>LED chip Efficacy (<math>\geq 130</math> Lm/Watt for 6000 deg K, <math>\geq 120</math> Lm/Watt for 4000 deg K, <math>\geq 110</math> Lm/Watt for 3000 deg K)</b>	Yes	Yes
	Working life for LED : (Minimum 50,000 burning hours as per LM-80 report)	Yes	*
	Colour Rendering Index(CRI)	$\geq 80$	*
	Beam Angle	$\geq 120$	*
	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	$< 85$ deg C	*
	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	$> 100$ M ohm	*

	current carrying part		
	The luminaire shall be protected against surges and transients of $\geq 2.5$ KV	Yes	*
MARKING	Manufactures Name and brand shall available on the body of the Luminaire	Engraved/Embossed	*
	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	*
REPORTS AND CERTIFICATIONS	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	Yes	*

	furnish to the buyer on demand (LM-80 report shall have the Photo Biological report of the LED Chip being used in the luminaire)		
	Availability of test Report from Central Government Lab /NABL/ILAC accredited lab to Indian Standrad IS:10322/part 5/sec-2/2012 and IS 16107 (Part 2/Sec 1) : 2012	Yes	*
	Seller has to furnish Type test report to the buyer on demand	Yes	*
	DC or AC supplied electronic control gear for LED Module shall complpy as per IS:15885 (Part 2/Sec.13)	Yes	*
	LED Luminaire for rcess type shall comply with Complusory Registration(CRS) of BIS for safety as per IS 10322 (Part 5/Section 2): 2012 as applicable on date	Yes	*

\* Specifications highlighted in bold are the Golden Parameters.

\* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement ( allowed Values) by the Buyer.

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Rajadurai P	625016,Office of the Senior Divisional Electrical Engineer Divisional Railway Managers Office Madurai Division Madurai	30	30

#### EMD Detail

Required	No
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#### ePBG Detail

Required	No
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**Splitting**

Bid 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. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 25% of total value.

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

**---Thank You---**