

### Bid Document

Bid Details	
Bid End Date/Time	20-07-2020 13:00:00
Bid Opening Date/Time	20-07-2020 13:30:00
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	Eastern Railway
Total Quantity	40
Item Category	LED Luminaire for High Bay Lighting
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Bid to RA enabled	No
Inspection Required	No

### EMD Detail

Required	No
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### ePBG Detail

Required	No
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### Splitting

Bid splitting not applied.

### LED Luminaire For High Bay Lighting ( 40 pieces )

### Technical Specifications

\* As per GeM Category Specification

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
STANDARDS	Description of store	LED High Bay Lighting for ceiling suspension type	*
	Safety requirements for Electronic Control Gear for LED Modules	as per IS:15885 (Part 2/Sec.13)	*
	DC or AC supplied electronic control gear for LED modules - Performance requirements	as per IS:16104:2012 latest	*
	Method of Measurement of Lumen Maintenance of solid state light (LED) sources	as per IS:16105:2012 latest	*
	Method of Electrical and Photometric Measurements solid state light (LED) sources	as per IS:16106:2012 latest	*
	LED Luminaire and Module	as per IS:10322/Part 5/Section 1/2012, IS: 16107 (Part 2/Sec 1):2012 -Type-B, and as per IS: 16103(Part-2)/2012 - Type-3 latest	*
	"Photo biological safety of LEDs "	as per IS:16108/2012 (Exempt Group)	*
	Enclosure protection (Ingress Protection)	as per IS/IEC:60529:2001 latest	*
	Comply with BIS CRS for DC or AC Supplied Electronic Control gear for LED Modules	Yes. as per IS:15885 (Part 2/Sec.13)	*
	BIS CRS Number - Must declare	-	*
	<b>Installation and commissioning</b>	No	Yes, No
	<b>Scope of installation and commissioning</b>	Not applicable	Installation and commissioning includes mounting of lights on roof hooks/fixture and making electrical connections to make

			the light functional. Wiring is not in scope., Not applicable
RATINGS	Rated voltage (in Volts)	240 V, AC	*
	Frequency (in Hz)	50 +/-2Hz	*
	<b>Operating input voltage range (in Volts)</b>	100 to 280	100 to 280, 120 to 277, 140 to 270, 140 to 300, 160 to 265
	<b>Luminaire System Wattge (in Watts)</b>	100	*
	LED chip Efficacy (Lumen/watt)	≥ 130	*
	Luminaire System Efficacy - Lumen output - (Lumen/watt)	≥ 120	*
	<b>Color Temperature (CCT) +/- 500 K (in Kelvin)</b>	6000 K	3500 K, 4500 K, 5500 K, 6000 K
	Colour Rendering Index (CRI) (in % age)	≥ 70	*
	Power Factor (PF)	≥ 0.95 at full load	*
	Total Harmonics Distortion (in %age)	≤ 10	*
	Beam angle of light source (in degree)	≥ 120	*
	Junction temperature (in deg. C)	< 85	*
	"Temperature rating of capacitor (in deg. C)	105	*
	LED Life	≥ 50000 Hours	*
	<b>Ingress Protection (IP) Rating of Luminaire (agreed to furnish test certificates to buyer / consignee on demand)</b>	IP 65	IP 54, IP 55, IP 65, IP 66, IP 67
	<b>Impact resistance (If claimed "Yes" - agreed to furnish test certificates to buyer / consignee on demand)</b>	Yes. IK07 (as per IEC 62262:2002)	Yes. IK07 (as per IEC 62262:2002), Yes. IK08 (as per IEC 62262:2002)
	<b>Minimum operating temperature range (in deg. C)</b>	-10 to 0	-10 to 0
	<b>Maximum operating temperature range</b>	50	45 - 60

	(in deg. C)		
	Humidity - RH (in % age)	10 to 95	*
PROTECTION	Short circuit Protection	Yes	*
	Over load protecton	Yes	*
	Over Voltage protection	Yes	*
	Other protection	Reverse polarity	*
SAFETY	High voltage withstand test between supply terminals and body of the unit	1.5 KV for 1 Minute	*
	Insulation resistance between earth and current carrying part	$\geq 100$ M ohm	*
	<b>The luminaire shall be protected against surges and transients ( Internal)</b>	$\geq 5$ KV	$\geq 5$ KV, $\geq 6$ KV
	<b>The luminaire shall be protected against surges and transients (External)</b>	$\geq 10$ KV	$\geq 10$ KV
	<b>Flame/Fire proof compliance (If claimed - agreed to furnish test certificates to buyer / consignee on demand)</b>	No	Fire retardant Class - FV-0 (as per IS:11731 Part-II), Flame proof, IIA, T6 temp. Class (as per IS/IEC 60079-0 & 1 : 2007 latest), No
	<b>Other compliacne (If claimed - agreed to furnish test certificates to buyer / consignee on demand)</b>	No	EMC (as per IEC:61000-3-2:2014 latest), EMC (as per IEC:61000-3-3:2014 latest), No
CONSTRUCTION	<b>Shape of Luminaire</b>	Round	Round, Square, Rectangle
	<b>Type of mounting</b>	Metallic adjustable Brackets with Eye Bolt	Metallic adjustable Brackets with Eye Bolt
	<b>Installation height range from floor level (in m) - Must declare</b>	15	9 - 50
	Lamp housing (single piece housing)	Pressure die cast aluminium alloy	*
	Heat sink along with sufficient heat sink fins to dissipate heat effectively	Yes	*

	Type of coating	Epoxy powder coated	*
	Colour of Luminaire	White	*
	Material of Lamp (Luminaire) cover	Heat Resistant Toughened Glass	*
	Material of all fastners	Stainless Steel	*
	Weather proof gasket	Yes	*
	<b>Optic Lens</b>	No	Yes. Polycarbonate-UV stabilised, No
	Luminaire comprises with separate compartment for control gear	Yes	*
	Suitable connector between driver output and LED	Yes	*
	<b>Type of Control Gear</b>	Constant Current	Constant Current
	<b>Number of electronic control gear on each luminaire (power supplies) - (in Nos.)</b>	1	1, 2
	PCB Grade	FR4	*
	Type of LED	SMD LED Chip ( surface Mounting Device)	*
	<b>Luminaire fitted with connecting cables for input power</b>	ISI Marked 3 Core cable for input power ( Length:250 mm )	ISI Marked 3 Core cable for input power ( Length:250 mm ), ISI Marked 3 Core cable for input power ( Length:500 mm )
MARKING	<b>Accessories for each luminaire</b>	Set of Bolt,Nut, Washers (SS)	Metallic adjustable Brackets (Stainless steel), SS Eye Bolts (as per IS:4190:1984 latest), Set of Bolt,Nut, Washers (SS), Die cast aluminium brackets
	Manufactures Name and brand on the Luminaire body	Engraved/ Embossed	*
	<b>Marking/Identification details on inside of each luminaire and outside of each packing box</b>	Model Number	Manufacturer's Name, Model Number, Serial Number, Month and year of manufacturing, Voltage, System Wattage
	<b>Marking/Identification details on each control gear</b>	Model Number	Manufacturer's Name, Model Number

CERTIFICATIONS	<b>Warranty period (in Months)</b>	24	24, 36, 48, 60 Or higher
	<b>Availability of test reports from Central Govt. Lab/NABL/ILAC accredited laboratory to prove conformity of the specification</b>	Yes	Yes, No
	Test report number and date if claimed "Yes" If No write NA	-	*
	Name and address of lab (If No test reports write NA)	-	*
	<b>Agreed to furnish LM 79 , LM 80 reports from Central Government lab/NABL/ILAC accredited lab</b>	Yes as per IS:16106:2012 latest and as per IS:16105:2012 latest	Yes as per IS:16106:2012 latest and as per IS:16105:2012 latest
	<b>Agreed to furnish TM 21 report from Central Government lab/NABL/ILAC accredited lab</b>	No	Yes, No
	Agree to furnish Photo Biological report from Central Government lab/NABL/ILAC accredited lab	Yes	*
	Agreed to furnish BIS CRS certificate for DC or AC Supplied Electronic Control gear for LED Modules from BIS	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.

#### Additional Specification Documents

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Moses Nag	711204,Eastern Railway Liluah	40	30

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## **Bid Specific Additional Terms and Conditions**

1. Scope of supply (Bid price to include all cost components) : Only supply of Goods
2. Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 7 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG). Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imburse the cost of such service / rectification to the Buyer.

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

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