

### Bid Document

Bid Details	
Bid End Date/Time	22-07-2020 15:00:00
Bid Opening Date/Time	22-07-2020 15:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	40 (Days)
Ministry/State Name	Ministry Of Railways
Department Name	Na
Organisation Name	Chittaranjan Locomotive Works (clw)
Office Name	713331
Total Quantity	35
Item Category	LED Luminaire for High Bay Lighting
Experience Criteria	2 Year (s)
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Experience Criteria,OEM Authorization Certificate *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
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.

1. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of years as indicated in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

## LED Luminaire For High Bay Lighting ( 35 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
	<b>Luminaire System Wattge (in Watts)</b>	150	150
	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	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</b>	IP 65	IP 65

	<b>certificates to buyer / consignee on demand)</b>		
	<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)
	<b>Minimum operating temperature range (in deg. C)</b>	-10 to 0	-10 to 0
	<b>Maximum operating temperature range (in deg. C)</b>	50	45 - 60
	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	≥ 100 M ohm	*
	<b>The luminaire shall be protected against surges and transients ( Internal)</b>	≥ 5 KV	≥ 5 KV
	<b>The luminaire shall be protected against surges and transients (External)</b>	≥ 10 KV	≥ 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
	<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>	12	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>	Yes. Polycarbonate-UV stabilised	Yes. Polycarbonate-UV stabilised
	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
	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 )
	<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
MARKING	Manufactures Name	Engraved/ Embossed	*

	and brand on the Luminaire body		
	<b>Marking/Identification details on inside of each luminaire and outside of each packing box</b>	Model Number	Manufacturer's Name, Model Number
	<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
	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	Ajoy Kumar Hira	713331,GM Building, CMM Office, Chittaranjan	35	21

### Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Only supply of Goods
2. Bid reserved for Make In India products: Procurement under this bid is reserved for purchase from Class 1 local suppliers as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a class 1 local supplier is denoted in the bid document 50%. All bidders must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which the bid is liable to be rejected. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020 . In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.
3. ISO 9001: The bidder must have ISO 9001 certification.
4. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
5. Successful bidder will have to ensure that adequate number of dedicated technical service personals / engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid.
6. Procurement under this bid is reserved for purchase from Micro and Small Enterprises from the State of Bid Inviting Authority whose credentials are validated online through Udyog Aadhaar for that product category. If the bidder wants to avail the reservation benefit, 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.

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

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