

Bid Document

Bid Details	
Bid End Date/Time	24-07-2020 15:00:00
Bid Opening Date/Time	24-07-2020 15:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	60 (Days)
Ministry/State Name	Ministry Of Heavy Industries And Public Enterprises
Department Name	Department Of Heavy Industry
Organisation Name	Bharat Heavy Electricals Limited (bhel)
Office Name	10170006-ivp Goindwal
Total Quantity	10
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
Document required from seller	Certificate (Requested in ATC), 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.

MSE Purchase Preference

MSE Purchase Preference	Yes
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1. 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.

LED Luminaire For High Bay Lighting (10 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	-	*
	Installation and commissioning	No	No
	Scope of installation and commissioning	Not applicable	Not applicable
RATINGS	Rated voltage (in Volts)	240 V, AC	*
	Frequency (in Hz)	50 +/-2Hz	*
	Operating input voltage range (in Volts)	100 to 280	100 to 280
	Luminaire System Wattge (in Watts)	200	200
	LED chip Efficacy (Lumen/watt)	≥ 130	*
	Luminaire System Efficacy - Lumen output - (Lumen/watt)	≥ 120	*
	Color Temperature (CCT) +/- 500 K (in Kelvin)	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	*
	Ingress Protection (IP) Rating of	IP 66	IP 66

	Luminaire (agreed to furnish test certificates to buyer / consignee on demand)		
	Impact resistance (If claimed "Yes" - agreed to furnish test certificates to buyer / consignee on demand)	Yes. IK08 (as per IEC 62262:2002)	Yes. IK08 (as per IEC 62262:2002)
	Minimum operating temperature range (in deg. C)	-10 to 0	-10 to 0
	Maximum operating temperature range (in deg. C)	60	60.0 - 60.0 Or higher
	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	*
	The luminaire shall be protected against surges and transients (Internal)	≥ 5 KV	≥ 5 KV
	The luminaire shall be protected against surges and transients (External)	≥ 10 KV	≥ 10 KV
	Flame/Fire proof compliance (If claimed - agreed to furnish test certificates to buyer / consignee on demand)	No	No
	Other compliacne (If claimed - agreed to furnish test certificates to buyer / consignee on	No	No

	demand)		
CONSTRUCTION	Shape of Luminaire	Round	Round
	Type of mounting	Metallic adjustable Brackets with Eye Bolt	Metallic adjustable Brackets with Eye Bolt
	Installation height range from floor level (in m) - Must declare	20	20
	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	Grey	*
	Material of Lamp (Luminaire) cover	Heat Resistant Toughened Glass	*
	Material of all fasteners	Stainless Steel	*
	Weather proof gasket	Yes	*
	Optic Lens	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	*
	Type of Control Gear	Constant Current	Constant Current
	Number of electronic control gear on each luminaire (power supplies) - (in Nos.)	1	1, 2
	PCB Grade	FR4	*
	Type of LED	SMD LED Chip (surface Mounting Device)	*
	Luminaire fitted with connecting cables for input power	ISI Marked 3 Core cable for input power (Length:250 mm)	ISI Marked 3 Core cable for input power (Length:250 mm)
	Accessories for each luminaire	Metallic adjustable Brackets (Stainless steel), SS Eye Bolts (as per IS:4190:1984 latest), 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)

MARKING	Manufactures Name and brand on the Luminaire body	Engraved/ Embossed	*
	Marking/Identification details on inside of each luminaire and outside of each packing box	Manufacturer's Name, Model Number, Serial Number, Month and year of manufacturing, Voltage, System Wattage	Manufacturer's Name, Model Number, Serial Number, Month and year of manufacturing, Voltage, System Wattage
	Marking/Identification details on each control gear	Manufacturer's Name, Model Number	Manufacturer's Name, Model Number
CERTIFICATIONS	Warranty period (in Months)	24	24, 36, 48, 60 Or higher
	Availability of test reports from Central Govt. Lab/NABL/ILAC accredited laboratory to prove conformity of the specification	No	No
	Test report number and date if claimed "Yes" If No write NA	-	*
	Name and address of lab (If No test reports write NA)	-	*
	Agreed to furnish LM 79 , LM 80 reports from Central Government lab/NABL/ILAC accredited lab	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
	Agreed to furnish TM 21 report from Central Government lab/NABL/ILAC accredited lab	Yes	Yes
	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	Navjot Singh	143422,433 INDUSTRIAL VALVES PLANT INDUSTRIAL COMPLEX PHASE 1 GOINDWAL SAHIB	10	60

Bid Specific Additional Terms and Conditions

1. 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 20% of total value.

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

---Thank You---