

### Bid Document

Bid Details	
Bid End Date/Time	24-07-2020 12:00:00
Bid Opening Date/Time	24-07-2020 12:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	60 (Days)
Ministry/State Name	Ministry Of Coal
Department Name	Materials Management
Organisation Name	Nlc
Office Name	Materials Management
Total Quantity	100
Item Category	LED Well Glass Fixture
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 Well Glass Fixture ( 100 pieces )

### Technical Specifications

\* As per GeM Category Specification

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
STANDARDS	Description of store	LED Well Glass Fixture Lighting for ceiling suspension type	*
	LED Luminaire	as per IS:10322/Pt.5/Sec.1/2012, IS: 16107 (Pt.2/Sec 1):2012 latest	*
	Type of LED Luminaire	"Type-B (as per IS: 16107(Part-2/Sec.-1)/2012) "	*
	Type and performance of LED Module	"Type-3 (as per the IS: 16103(Part-2)/2012) "	*
	DC or AC supplied electronic control gear for LED modules - Performance requirements	as per IS:16104:2012 latest	*
	Safety requirements for Electronic Control Gear for LED Modules	as per IS:15885 (Part 2/Sec.13)	*
	"Photo biological safety of LEDs "	as per IS:16108/2012 (Exempt Group)	*
	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>Degree of protection (Ingress Protection)</b>	IP 66 (as per IS/IEC:60529:2001)	IP 66 (as per IS/IEC:60529:2001)
	<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>Other compliacne (If claimed - agreed to furnish test certificates to buyer / consignee on demand)</b>	EMC (as per IEC:61000-3-2:2014 latest)	EMC (as per IEC:61000-3-2:2014 latest)
FLAME PROOF	<b>Type of Equipment protection</b>	No	No
	<b>Equipment Group (intend for use in explosive</b>	No	No

	atmospheres)		
	<b>Flame proof and equipment safety certificate and approval . Agreed to furnish copy certificate to the buyer / consignee on demand</b>	No	No
	Flame proof and equipment safety certificate if claimed "Yes" certificate number must declare. If No write NA	-	*
RATINGS	<b>Rated voltage (in Volts)</b>	240 V, AC	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 Wattage (in Watts)</b>	35	35
	<b>LED chip Efficacy (Lumen/watt)</b>	≥ 130	≥ 130
	<b>Luminaire System Efficacy - Lumen output - (Lumen/watt)</b>	≥ 120	≥ 120
	<b>Color Temperature (CCT) +/- 500 K (in Kelvin)</b>	6500 K	6500 K
	<b>Colour Rendering Index (CRI) (in %age)</b>	≥ 70	≥ 70
	<b>Power Factor (PF)</b>	≥ 0.95 at full load	≥ 0.95 at full load
	<b>Total Harmonics Distortion (in %age)</b>	≤ 10	≤ 10
	<b>Beam angle of light source (in degree)</b>	≥ 120	≥ 120
	Junction temperature (in deg. C)	< 85	*
	Temperature rating of capacitor (in deg. C)	105	*
	<b>LED Life</b>	≥ 50000 Hours	≥ 50000 Hours
	<b>Ingress Protection (IP) Rating of Luminaire (agreed to</b>	IP 66	IP 66

	<b>furnish test certificates to buyer / consignee on demand)</b>		
	Minimum operating temperature range (in deg. C)	- 10 to 0	*
	<b>Maximum operating temperature range (in deg. C)</b>	55	55.0 - 60.0 Or higher
	Humidity - RH (in % age)	10 to 95	*
PROTECTION	Short circuit Protection	Yes	*
	Over load protection	Yes	*
	Over Voltage protection	Yes	*
	<b>Other protection</b>	Reverse polarity	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
CONSTRUCTION	Shape of Luminaire	Round	*
	Type of mounting	Metallic adjustable Brackets with Eye Bolt	*
	Installation height range from floor level (in m) - Must declare	6	*
	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	*

	<b>Luminaire with wire guard</b>	No	No
	<b>Optic Lens</b>	Yes. Polycarbonate-UV stabilised	Yes. Polycarbonate-UV stabilised
	Material of all fastners	Stainless Steel	*
	Weather proof gasket	Yes	*
	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:500 mm )	ISI Marked 3 Core cable for input power ( Length:500 mm )
	<b>Accessories for each luminaire</b>	SS Eye Bolts (as per IS:4190:1984 latest),Set of Bolt,Nut, Washers (SS),Die cast aluminium brackets	SS Eye Bolts (as per IS:4190:1984 latest), Set of Bolt,Nut, Washers (SS), Die cast aluminium brackets
MARKING	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>	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
	<b>Marking/Identification details on each control gear</b>	Manufacturer's Name,Model Number	Manufacturer's Name, Model Number
INSTALLATION	<b>Installation and commissioning</b>	No	No
	<b>Scope of installation and commissioning</b>	Not applicable	Not applicable
CERTIFICATIONS	<b>Warranty period (in Months)</b>	36	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>	Yes	Yes
<b>Agree to furnish Photo Biological report from Central Government lab/NABL/ILAC accredited lab</b>	Yes	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	SRINIVASAN KALIYAPERUMAL	607807,PERMANENT CENTRAL STORES, NLC INDIA LIMITED, NEYVELI 607807	100	30

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

1. Scope of supply (Bid price to include all cost components) : Only supply of Goods

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

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