

Bid Document

Bid Details	
Bid End Date/Time	27-07-2020 11:00:00
Bid Opening Date/Time	27-07-2020 11:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	75 (Days)
Ministry/State Name	Ministry Of Power
Department Name	Power Grid Corporation Of India Limited
Organisation Name	Power Grid Corporation Of India Limited
Office Name	Corporate Office Gurgaon
Total Quantity	60
Item Category	LED Tube for Railway coaches - Retrofitment
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) *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.

LED Tube For Railway Coaches - Retrofitment (60 pieces)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
GENERIC	Technical requirements for Energy efficient LED Tube for retrofitment in railway passenger coaches	as per ICF/ELEC/960 dt.4.12.17 issued by O/o CDE/Elec. ICF, Chennai-38	*
	Specification seen and understood	Yes	*
	Type of Tube	Type B - 18 W (max.) - 4 feet	Type B - 18 W (max.) - 4 feet
	Operating voltage range available as input	90 to 140 V AC /DC	90 to 140 V AC /DC
	Supply voltage (Nominal)	110 V AC/DC	110 V AC/DC
	The over voltage trip shall be set between	200 V to 205 V AC (RMS)/DC	*
	As soon as voltage comes below 200 V AC (RMS)/DC , the tube shall switch on automatically	Yes	*
	The driver shall be	separate unit design	separate unit design
	Ingress protection as per IEC:60529 latest	IP20 for internal driver	IP20 for internal driver
	Construction	as per CI 5.0 of ICF/ELEC/960 dt.4.12.17	*
	Total harmonic distortion (THD) shall be	$\leq 10\%$	*
	The Power factor of LED tube shall be	≥ 0.9	*
	LED driving current	$< 80\%$ of absolute maximum forward current	*
	LED Controller (Driver) Internal or External shall be EMI/EMC compliant	Yes	*
	The working life of LED	$\geq 40,000$ hours	*

	Tube shall be		
	Suitable for continuous operation of	24 hrs/day	*
	LED Junction temperature shall be	<85 deg. C	*
	Colour Temperature of white colour LED	5700 K - 6500 K	*
	Average Illumination level of tube (in LUX)	90 for Type-A	90 for Type-A
	Beam angle / View angle (typical)	>/= 120 Degree	*
	Adequate heat sink with proper thermal management shall be provided	Yes	*
SERVICE CONDITION	Maximum ambient air temperature (in deg C)	55	*
	Minimum ambient air temperature (in deg C)	-5	*
	Max Relative humidity	98%	*
	Atmosphere Extremely dusty and desert weather and desert terrain in certain areas The dust contents in air may reach as high values as	1.6 mg/m3	*
	The equipment shall be designed to work in coastal area in humid, salt laden and corrosive atmosphere	Yes	*
	The altitude (above sea level) - in meter	<1200 m	*
	Annual rainfall with thunder storm	1750 to 6250 mm	*
	Max pH value	8.5	*
	Sulphate	7 mg/litre	*
	Max concentration of chlorine	6 mg/litre	*
WARRANTY/CERTIFICATION	Max Conductivity	130 micro sec/cm	*
	Replacement guarantee from the date of commissioning	60 Months	*
	Replacement guarantee from date of supply	66 Months	*

Seller shall furnish LM 80 & TM 21 report to buyer on demand for Lumen maintenance and lift test	Yes	*
LED used shall be (Certificate shall furnish to the buyer on demand)	UL certified with UL Number	*
Type test, Acceptance test and Routine test	as per Cl.7.4 of ICF/ELEC/960 specn., dt.4.12.17 issued by O/o CDE/Elec. ICF, Chennai-38	*
Availability of type test reports from any Central Govt laboratory / ILAC approved laboratory / NABL aproved laboratory Type test reports shall be furnished as and when requested to do so by Purchaser,Indent or,Consignee etc, Test reports as per Specn No ICF/ELEC/960 dt-4-12-17 issued by O/o CDE/Elec ICF, Chennai-38	Yes	*
Test Report Number	-	*
Test Report Date	-	*
Name of testing lab	-	*
Address of testing lab	-	*

* 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	Sudeep Kumar	800023,POWERGRID CORPORATION OF INDIA LIMITED, Eastern Region-I Headquarter (ER-I RHQ), Board Colony, Near	60	30

	Transformer Repair Works, Shastri Nagar, Patna, Bihar 800023	
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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. Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.
3. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
4. Warranty period of the supplied products shall be 5 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid

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

---Thank You---