

### Bid Document

Bid Details	
Bid End Date/Time	21-07-2020 12:00:00
Bid Opening Date/Time	21-07-2020 12:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	75 (Days)
Ministry/State Name	Ministry Of Power
Department Name	Na
Organisation Name	Northern Regional Power Committee Ministry Of Power
Office Name	Nhpc Limited, Tld-iv Ps, Kalijhora, Dist. Darjeeling, Pin-734320 , West Bengal
Total Quantity	10
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
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 ( 10 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	*
	<b>Type of Tube</b>	Type B - 18 W (max.) - 4 feet	Type A - 9W (max,) - 2 feet, Type B - 18 W (max.) - 4 feet, Type C - 5 W (max.,)
	<b>Operating voltage range available as input</b>	90 to 170 V AC	90 to 170 V AC, 90 to 140 V AC /DC
	<b>Supply voltage (Nominal)</b>	110 V AC/DC	110 V AC/DC, 127 V AC
	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	*
	<b>The driver shall be</b>	in built with tube	in built with tube, separate unit design
	<b>Ingress protection as per IEC:60529 latest</b>	IP20 for internal driver	IP20 for internal driver, IP65 for external 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	$\geq 0.9$	*
	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	*
	<b>Average Illumination level of tube (in LUX)</b>	90 for Type-A	90 for Type-A, 130 for Type-B, 90 for Type C
	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	*
	Max Conductivity	130 micro sec/cm	*
WARRANTY/CERTIFICATION	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	AMRISH CHANDRA SUMAN	734008,NHPC LIMITED, TEESTA LOW DAM-IV POWER STATION, KALIJHORA BAZAR, P.O. KALIJHORA,	10	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---**