

### Bid Document

Bid Details	
Bid End Date/Time	21-07-2020 11:00:00
Bid Opening Date/Time	21-07-2020 11:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	30 (Days)
Ministry/State Name	Ministry Of Railways
Department Name	Na
Organisation Name	N/a
Office Name	East Central Railway
Total Quantity	2
Item Category	Online UPS 5 KVA for Critical Infrastructures
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	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
----------	----

### ePBG Detail

Required	No
----------	----

### Splitting

Bid splitting not applied.

## Online UPS 5 KVA For Critical Infrastructures ( 2 pieces )

### Technical Specifications

[\\* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
GENERIC	Online UPS should support for critical infrastructures such as Data Centres, Network operating centres, Security operation centres, State and District centres, Command and Control centre etc., across the Country to provide impetus to the e-Governnance services e.g.Public food distribution, e Way bill, Counseling, e-Office, IVFRT etc., services under Digital India Programme	Yes	*
	<b>On Line UPS Capacity/Battery back up time at full load/Minimum VAH</b>	5 KVA/60 Minutes/8193 VAH	5 KVA/60 Minutes/8193 VAH
	Inverter Technology	PWM with IGBT, double conversion	*
	Isolation transformer: Galvanic Isolation through inbuilt transformer at UPS output side	Yes	*
	Output wave form	Pure sine wave	*
	Country of origin for Inverter	India	*
	Noise level (1 meter distance from UPS)	</= 55 dB	*
	UPS shall have cold start facility	Yes	*
	Type of cool	Air cooled	*
	Parallel load sharing redundant operation with all accessories	No	*
	<b>Installation and</b>	Yes	Yes

	<b>commissioning</b>		
INPUT	Input	AC Single Phase	*
	In put Voltage Range	160 V to AC to 270 V AC	*
	Input frequency range	50 Hz +/-6% Hz	*
	Input power factor at full output load leading to unity with active power factor correction (APFC)	>/=0.90	*
	Distortion (current)	Less than 10%	*
	UPS shall have DG set compatibility	Yes	*
OUTPUT	Out put voltage	230 V AC +/-1% Single Phase	*
	Maximum Voltage regulation (Steady state) at No load to full load, 0.6 lag to Unity PF, During entire back up time, Complete input voltage range	+/-1%	*
	Frequency	50 Hz +/-0.5 % Hz	*
CONSTRUCTION	Minimum thickness (in mm) of M.S.Sheet Enclosure for UPS duly powder coated	1.0	*
	UPS shall be free from workmanship defects, sharp edges, nicks, scratches,burst, etc. All fasteners shall be fixed properly. The equipment shall be complete with all parts and all parts shall be functional	Yes	*
	UPS enclosure's degree of protection as per IS:13947 (Part 1)/1993 latest	IP21	*
	UPS shall have switches for: Mains ON/OFF MCB, Battery ON/OFF MCB/Fuse, Inverter push button with reset	Yes	*
	Standard quality Out put terminals shall be provided for output	Yes	*

	connection		
	UPS shall have static and manual by pass facility	Yes	*
	UPS shall be supplied with required rated power cable (Copper)	5 Meters	*
	Total Harmonic Distortion (THD) for 100% linear load	< 3%	*
	Total Harmonic Distortion (THD) for 100% non-linear load	< 5%	*
	Operating temperature	0 deg C to 40 deg C	*
	Humidity	Upto 95% non-condensing	*
	Crest factor on full non-linear load	Not less than 3:1	*
	Over all efficiency on rated full load of 0.9 PF and 230 Volt, 50 Hz AC output	>=80%	*
	Inverter efficiency on rated full load of 0.9 PF and 230 Volt, 50 Hz AC output	>=85%	*
	UPS shall withstand Over load capacity - 110%	for 2 Minutes	*
	UPS shall withstand Over load capacity - 125%	for 30 seconds	*
	Load power factor lagging to unity	Yes	*
	Transient response time (for 100% load change, output must remain within +/-4% and recovery)	</-20 milli seconds	*
PROTECTION	Short circuit protection	Yes	*
	Over load protection	Yes	*
	Over temperature protection	Yes	*
	In put low/high voltage control	Yes	*
	DC low/high voltage trip	Yes	*

BATTERY	Battery shall conforming to JISC:8702(Pt.I,II&III) latest	Yes	*
	Battery type	SMF VRLA	*
	Country of origin for Battery	India	*
	Battery recharge time (after complete discharge to 90% charge) and charge rating: Battery recharge time to 90% charge after 100% DoD	8 to 10 hours	*
	Battery charger should be capable to charge battery on C10 rating	Yes	*
	VAH tolerance	-1% of the defined capacity	*
	Battery cutoff voltage during back up	Not less than 10.5 V	*
	More than two battery banks should not be used in parallel in any configuration	Yes	*
	<b>Batteries shall supply with</b>	With rack	With rack
Meters and Indicators	UPS shall have LCD meter to measure and monitor input voltage, output voltage, output current/load level in %, DC current/DC level in %, DC voltage, input and output frequency	Yes	*
	UPS shall have indicators for Mains on, Load on battery, Inverter, Battery level, Load level, Inverter over load	Yes	*
	UPS shall have audible alarm for over temperature, mains failure, battery low, inverter overload	Yes	*
	<b>Management port: Preferably SNMP based with management Software</b>	No	No

WARRANTY AND SERVICES	<b>Warranty for UPS (on site comprehensive warranty) (in years)</b>	3	3
	<b>Warranty for battery (replacement warranty) (in years)</b>	2	2
	After sales and complaint service	within 48 hours	*
	PAN India service support on 24 x 7 basis	Yes	*
	AMC support available after 5 year warranty	Yes	*
	Quarterly preventive maintenance available	No	*
	Manufacturer shall provide and support for instllation, commissioning, spares, technical support all over India	Yes	*
CERTIFICATIONS	Availability of spares in close proximity (Spares should be easily available close to the site)	Yes	*
	ISO Certification	Yes	*
	<b>CE Certification and marking</b>	Yes	Yes
	Damp Heat Test : in accordance with IS:9000(part 5/sec.2)1981 at Temperature of 40 degree C,two cycles of (12+12) hours each 2007)	Yes	*
	Dry Heat Test : in accordance with IS:9000 (part 3/sec.5)1977 (reaffirmed 2007) at 55 degree C for 16 hrs	Yes	*
	Cold Test : in accordance with IS:9000 (Part 2/Sec.4)1977 (Reaffirmed 2007) at -10 degree C for 4 hrs.	Yes	*
	Availability of the Type	Yes	*

	Test Report from Central Govt. /NABL/ILAC Accredited lab covering all technical requirements.		
	As per Meity (Government of India) guidelines UPS shall have valid BIS CRS certifications as applicable as on date	Yes	*
	As per Meity (Government of India) guidelines storage battery shall have valid BIS CRS certifications as applicable as on date	Yes	*
	All the test reports and certificates shall furnish by the supplier to the buyer/consignee on demand	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	Sadanand Prasad Yadav	801105,Office of DRM East Central Railway Danapur	2	30

#### **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. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.

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

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