

Bid Document

Bid Details	
Bid End Date/Time	27-07-2020 16:00:00
Bid Opening Date/Time	27-07-2020 16:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	75 (Days)
Ministry/State Name	Ministry Of Railways
Department Name	Na
Organisation Name	N/a
Office Name	Office Of Principal Chief Materials Manager, South Western Railway, Hubli
Total Quantity	1
Item Category	Online UPS 10 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	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.

Online UPS 10 KVA For Critical Infrastructures (1 pieces)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement
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			(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-Governance services e.g. Public food distribution, e Way bill, Counseling, e-Office, IVFRT etc., services under Digital India Programme	Yes	*
	On Line UPS Capacity/Battery back up time at full load/Minimum VAH	10 KVA/60 Minutes/16385 VAH	10 KVA/60 Minutes/16385 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	Yes	Yes
	Installation and commissioning	Yes	Yes
INPUT	Input	AC Three Phase	*
	Input Voltage Range	320 V to AC to 460 V AC 3 Phase	*
	Input frequency range	50 Hz +/-6% Hz	*
	Input power factor at full output load leading to unity with active power factor correction (APFC)	>=0.92	*
	Distortion (current)	Less than 10%	*
	UPS shall have DG set compatibility	Yes	*
OUTPUT	Output voltage	230 V AC +/-1% Single Phase	*
	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 connection	Yes	*
	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	>=85%	*
	Inverter efficiency on rated full load of 0.9 PF and 230 Volt, 50 Hz AC output	>=90%	*
	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 +/-1% and recovery)	</-20 milli seconds	*
PROTECTION	Short circuit protection	Yes	*
	Over load protection	Yes	*

BATTERY	Over temperature protection	Yes	*
	In put low/high voltage control	Yes	*
	DC low/high voltage trip	Yes	*
	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	*
	Batteries shall supply with	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	*
	Management port: Preferably SNMP based with management Software	Yes	Yes
WARRANTY AND SERVICES	Warranty for UPS (on site comprehensive warranty) (in years)	3	3
	Warranty for battery (replacement warranty) (in years)	2	2
	After sales and complaint service	within 48 hours	*
	PAN India service support on 24 x 7 basis	Yes	*
	AMC support available	Yes	*

	warranty		
	Quarterly preventive maintenance	Yes	*
	Manufacturer shall provide and support for instllation, commissioning, spares, technical support all over India	Yes	*
	Availability of spares in close proximity (Spares should be easily available close to the site)	Yes	*
CERTIFICATIONS	ISO Certification	Yes	*
	CE Certification and marking	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 Test Report from Central Govt. /NABL/ILAC Accredited lab covering all technical requirements.	Yes	*
	As per Meity (Government of India) guidelines storage battery shall have valid BIS CRS certifications as applicable as on date	Yes	*
	As per Meity (Government of India) guidelines UPS 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	Digvijay M Singh	560009,O/o Divisional Railway Manager, Office Complex, South Western Railway Divisional Office, Bangalore.	1	30

Special terms and conditions for category Online UPS 10 KVA for Critical Infrastructures

- 1.OEM should be able to attend and service the equipment within a defined time (e.g. 3 Hrs to 24 Hrs) or else is liable to be penalized
- 2.Only OEM may be allowed to supply, install, commission & support UPS system as only OEM can provide spares and technical support for immediate rectification of system fault
- 3.Availability of spares in close proximity: To ensure higher up time (99.98%) spare should be easily available close to the site.
- 4.OEM should be able to provide supply, install, commission & support in remote areas e.g. NE region, J&K etc.
- 5.PAN India service network by the supplier
- 6.24x7 availability of trained service personal on PAN India basis
- 7.24x7 availability of spare parts on PAN India basis.

Bid Specific Additional Terms and Conditions

- 1.Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning 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.Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
- 5.The bidder is required to upload, along with the bid, all relevant certificates such as BIS licence, type test certificate, approval certificates and other certificates as prescribed in the Product Specification given in the bid document.
- 6.Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 5 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG).Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imburse the cost of such service / rectification to the Buyer.
- 7.Successful bidder will have to ensure that adequate number of dedicated technical service personals / engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid.

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

---Thank You---