

### RA Document

RA Details	
RA Technical End Date/Time	24-07-2020 17:00:00
RA Opening Date/Time	24-07-2020 17:30:00
RA Life Cycle (From Publish Date)	90 (Days)
RA Offer Validity (From End Date)	60 (Days)
Ministry/State Name	Ministry Of Civil Aviation
Department Name	Airports Authority Of India (aai)
Organisation Name	Airports Authority Of India
Office Name	Airports Authority Of India, Trivandrum Airport
Total Quantity	2
Item Category	Online UPS 5 KVA for Critical Infrastructures
Average Turnover (Last 3 Years)	2 Lakh (s)
OEM Average Turnover (Last 3 Years)	12 Lakh (s)
Experience Criteria	3 Year (s)
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover *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
Past Performance	50 %
Inspection Required	Yes
Inspection to be carried out by Buyers own empanelled agency	Yes
Type Of Inspection	Pre Dispatch
Name of the Empanelled Inspection Agency/ Authority	Board of Officers

### EMD Detail

Required	No
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**ePBG Detail**

Required	No
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**Splitting**

RA splitting not applied.

1. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of years as indicated in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
2. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
3. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 50% of bid quantity, in at least one of the last three years before the bid opening date to any Central / State Govt Organization / PSU / Public Listed Company. Copies of relevant contracts (proving supply of cumulative order quantity in any one year) to be submitted along with bid in support of quantity supplied in the relevant year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

**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	Yes	*

	impetus to the e-Governance services e.g.Public food distribution, e Way bill, Counseling, e-Office, IVFRT etc., services under Digital India Programme		
	<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	Yes	*
	<b>Installation and commissioning</b>	Yes	Yes
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	+/-1%	*

	state) at No load to full load, 0.6 lag to Unity PF, During entire back up time, Complete input voltage range		
	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-	Not less than 3:1	*

	linear load		
	Over all efficiency on rated full load of 0.9 PF and 230 Volt, 50 Hz AC output	$\geq 80\%$	*
	Inverter efficiency on rated full load of 0.9 PF and 230 Volt, 50 Hz AC output	$\geq 85\%$	*
	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 $\pm 4\%$ and recovery)	$\leq 20$ 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>	Yes	Yes
WARRANTY AND SERVICES	<b>Warranty for UPS (on site comprehensive warranty) (in years)</b>	5	5
	<b>Warranty for battery (replacement warranty) (in years)</b>	2	2
	After sales and complaint service	within 24 hours	*
	PAN India service support on 24 x 7 basis	Yes	*
	AMC support available after warranty	Yes	*
	Quarterly preventive maintenance available	Yes	*
	Manufacturer shall provide and support for	Yes	*

	instillation, commissioning, spares, technical support all over India		
	Availability of spares in close proximity (Spares should be easily available close to the site)	Yes	*
CERTIFICATIONS	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 Test Report from Central Govt. /NABL/ILAC Accredited lab covering all technical requirements.	Yes	*
	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	Yes	*

	certificates shall furnish by the supplier to the buyer/consignee on demand		
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\* 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

### Consignee/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days	
1	Bijoy Khalith	695008,Airports Authority of India Trivandrum Airport	2	30	N/A

## Bid Specific Additional Terms and Conditions

- Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if:
  - The Seller fails to comply with any material term of the Contract.
  - The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent.
  - The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly.
  - The Seller becomes bankrupt or goes into liquidation.
  - The Seller makes a general assignment for the benefit of creditors.
  - A receiver is appointed for any substantial property owned by the Seller.
  - The Seller has misrepresented to Buyer, acting on which misrepresentation Buyer has placed the Purchase Order on the Seller.
- Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods
- Bidder Turn Over Criteria: The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
- OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria. In case of bunch bids, the OEM of CATEGORY RELATED TO primary product having highest bid value should meet this criterion.
- IMPORTED PRODUCTS: In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted.



6. 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.
7. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
8. Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
9. Pre-dispatch inspection at Seller premises (Fee/Charges to be borne by the BUYER): Before dispatch, the goods will be inspected by Buyer / Consignee or their Authorized Representative or by Nominated External Inspection Agency (independently or jointly with Buyer or Consignee as decided by the Buyer) at Seller premises (or at designated place for inspection as declared / communicated by the seller) for their compliance to the contract specifications. Fee/Charges taken by the External inspection Agency and any external laboratories testing charges shall be borne by the Buyer. For in-house testing, the Sellers will provide necessary facilities free of cost. Seller shall notify the Buyer through e-mail about readiness of goods for pre-dispatch inspection and Buyer will notify the Seller about the Authorized Representative/ Nominated External Inspection Agency and the date for testing. The goods would be dispatched to consignee only after clearance in pre-dispatch inspection. Consignee's right of rejection as per GTC in respect of the goods finally received at his location shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by Buyer/ Consignee or its Nominated External Inspection Agency prior to the goods' shipment. While bidding, the sellers should take into account 7 days for inspection from the date of email offering the goods for inspection. Any delay in inspection beyond 7 days shall be on the part of the buyer and shall be regularised without Liquidated Damages.
10. Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.
11. ISO 9001: The bidder must have ISO 9001 certification.
12. Material Test Certificate Should Be Sent Along with The Supply. The Material Will Be Checked by Buyer's Lab & the Results of the Lab will be the Sole Criteria for Acceptance of the Item.
13. 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.
14. To be eligible for award of contract, Bidder / OEM must possess following Certificates / Test Reports on the date of bid opening (to be uploaded with bid): Test reports complying industry standards specified for the specifications of UPS being supplied.
15. 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
16. Bidder / OEM has to give an undertaking that after expiry of warranty period, it will provide Comprehensive Maintenance Service for next 3 years for the offered products at the rate not more than 10 % of contract price per annum. Buyer reserves the right to enter into a CMC agreement with the Successful Bidder / OEM after expiry of the Warranty period at above mentioned rate and the payment for the CMC charges would be made Quarterly after rendering of the CMC Services of the relevant CMC period. Performance Security of the successful bidder shall be forfeited if it fails to accept the CMC contract when called upon by the buyer. CMC would include cost of shall not exceed 8 % of equipment cost (Upload the undertaking). The original Performance Security of contract will be returned only after submission and verification of AMC Performance Security for 3% of total CMC value valid up

- to CMC period plus 2 months (if there is no other claim).
17. Over and above the normal Warranty terms as per GeM GTC, the successful bidder / OEM shall have to provide Comprehensive Warranty during the entire Standard warranty period as per contract. : The comprehensive warranty shall be covering the following scope Corrective and Preventive maintenance of UPS inclusive of batteries, Onsite service within 24 hrs of fault reporting and normalising the service (Upload an undertaking with the bid confirming compliance by the bidder if Bidder is taking onus of this compliance. In case OEM is taking onus of this compliance, OEM undertaking is to be uploaded along with Bidder undertaking)
  18. 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.
  19. 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 3 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.

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

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