

TENDER REF. NO. - AAAL/IT/2022-23/272/ Power One Modular UPS 40, 30 & 6KVA

DATED: 12/12/2022

**ALLIANCE AIR AVIATION LIMITED**

**IGI AIRPORT, TERMINAL-I, NEW DELHI-110037**

CATEGORY	DATES
BID SUBMISSION START DATE	13-Dec-2022
BID SUBMISSION END DATE	20-Dec-2022
BID OPENING DATE	20-Dec-2022, 15:30 Hrs.

**SUBJECT:** Tender inviting quotations for AMC of 40 KVA 30 & 6KVA Modular UPS for AAAL office at Domestic Terminal – 1, IGI Airport, New Delhi

AAAL is a subsidiary of AIAHL, fully owned by the government of India, under ad the administrative control of the Ministry of civil aviation, and currently operates a fleet of ATR-72-600, aircraft inducted on lease with the brand “ALLIANCE AIR” and operates domestic flights within India.

OEM or its authorized channel/distribution partners are invited to submit their best offer as per the documents and the terms and conditions giver given low:

1. ANNEXURE ‘A’: GENERAL TERMS AND CONDITIONS, ELIGIBILITY CRITERIA GOVERNING THIS TENDER.
2. ANNEXURE ‘B’: PRODUCT SPECS AND WORK SCOPE.
3. ANNEXURE ‘C’: TECHNO-COMMERCIAL BID FORMAT.
4. ANNEXURE ‘D’: PRICE/FINANCIAL BID FORMAT.

Tender documents giving the eligibility criteria, detailed specifications of the tendered item and the other terms and conditions are available for downloading on free of cost basis from AIR INDIA website “airindia.in”. The bidders are required to submit their bids in two different sealed / closed envelopes, clearly identifiable, as follows:

ENVELOPE NO.	CONTENTS	MARKING ON THE ENVELOPE
1	TECHNO-COMMERCIAL BID- Response from the bidder consisting of Annexure - C	TECHNO-COMMERCIAL BID – TENDER NO: AAAL/DEL/ONLINE UPS 40 KVA 30 & 6KVA / DATED:
2	FINANCIAL BID- Response from the bidder consisting of Annexure - D	FINANCIAL BID– TENDER NO: AAAL/DEL/ONLINE UPS 40 KVA 30 & 6KVA / DATED:

The above two envelopes should be submitted in another Master envelope in sealed/closed condition. The master envelope should be super-scribed with tender reference no Tender no. and submitted at the following address on or before the closing date and time:

**TENDER REF. NO. - AAAL/IT/2022-23/272/ Power One Modular UPS 40, 30 & 6KVA**

**DATED: 12/12/2022**

Materials Management Department  
Airline Allied Aviation Limited  
Alliance Bhawan,  
Domestic Terminal-1, IGI airport,  
New Delhi-110037

Last Date & Time for submission of tender:

Due date and time for the opening of technical bids:

The bidder(s)/Service Provider /Tenderer(s) shall be invited to witness the opening of envelope – 1, containing the techno-commercial bids, bidder/ service provider/tenderer who wishes to be present at the time of opening of the techno-commercial bid may do so or send his / her its representative with authorization letter on their company letterhead.

Amendments, corrigendum, clarifications, if any, and any extensions of the due date of opening of this tender will be intimated and hosted only on the website of AIL.

Parties, who have defaulted in supplies in the recent past orders of Alliance Air, will not be considered and allowed to participate in this tender.

For any queries/clarifications, farther following persons can be contacted:

Ajay Kotwal, Manager – IT, 9568636695

FOR ALLIANCE AIR AVIATION LIMITED

(IT DEPARTMENT)

**ANNEXURE-A**

**GENERAL TERMS AND CONDITIONS**

1. Payment for any inclusion / deletion of UPS during the AMC period will be calculated on Pro-rata basis. Addition/Withdrawal of system/unit shall be communicated by IT&MIS department in writings and AMC charges will be calculated on pro rata basis during the contract period. No advance payment in any case would be made.
2. Period of Contract—Three years with effect from. Contract extendable on year-to-year basis subject to satisfactory performance and our requirement at the same rates and terms.
3. Nature of Contract—Comprehensive
4. Payment – Payment of AMC charges will be made at the end of each quarter on certification of Invoices by our IT department.
5. **Other terms and conditions:**
  - i. The contract will be on Comprehensive basis inclusive of repairs and replacement of spare parts without extra payment. The contract will be effective for a period of Three years from the date of issue of letter awarding contract. No demand for revision of rates on any account shall be entertained during the contract period. The contractor shall be responsible for any loss or damage caused to any of the machines owing to negligence on their part. The contractor will be required to keep Virus-free computer environment in AAAL- Alliance Air in accordance with the guidelines prescribed in NIC.
  - ii. The UPS system assigned to contractor shall be thoroughly inspected by the firm within 15 days of the award of the contract and estimates of pre-maintenance/repairs, if any, submitted within 15 days of the award of the contract. AAAL shall not bear any cost of repairs of equipment's after the contract has been awarded. List of the units which are to be covered in the AMC is attached. (REFER ANNEXURE –C)
  - iii. Payment for any inclusion / deletion of UPS system during the AMC period will be calculated on Pro-rata basis. Addition/Withdrawal of system/unit shall be communicated by IT&MIS department in writings and AMC charges will be calculated on pro rata basis during the contract period. No advance payment in any case would be made.
  - iv. The machines are normally required to be repaired on site/ place designated by AAAL- Alliance Air New Delhi at office premises only. In exceptional cases when the machine cannot be repaired in the office premises and required to be taken to the workshop/service centre, AAAL-Alliance Air will not make any payment towards carriage and the expense for the to and fro transportation of the machines will be borne by the firm concerned. The equipment being taken to the workshop for repair would be at vendor's own risk and expenses. Any damage or loss caused to the UPS or their part due to negligence, mishandling shall be made good by the company either by payment in cash according to the prevailing market price of that items or by a new one of the same make specifications.
  - v. It shall be the responsibility of the firm to make all the UPS work satisfactorily throughout the contract period and to hand over the systems in working condition to AAAL- ALLIANCE AIR

- after expiry of contract. In case any damage is found, the firm is liable to rectify it even after the contract.
- vi. Only brand new genuine spare parts are to be used and refurbished/ second hand spare parts are to be avoided mandatorily.
  - vii. The payments will be made quarterly. The firm shall submit post quarterly bill along with the satisfactory performance report of UPS duly signed by the user two weeks before the completion of three months. Head of IT&MIS will reconcile, certify and forward it to finance department. The service tax as levied by Govt instructions over and above the unit rate/total amount as admissible, will be payable to the firm. This is only a tentative schedule of payment and does not confer any legal or other rights on the firm to proceed against AAAL- ALLIANCE AIR in the event of payment gets delayed due to budgetary and other unforeseen circumstances. The payment will be made after proper deduction of TDS as per existing rates and rules.
  - viii. In case the firm fails to cope with the workload or does not render satisfactory services, the contract awarded to them shall be cancelled forthwith and the security deposit and the payments due to them shall be forfeited. The contract can be terminated summarily by this organization (AAAL- ALLIANCE AIR) at any time without giving any notice or without assigning any reason, if the work of the contractor is found unsatisfactory during the execution of this contract. In this connection the decision of the Head of IT- Alliance Air shall be final and binding on the firm.

## **6. SERVICE ASSURANCE**

6.1 A log book shall be maintained by the representative, in which the representative shall record all the complaints made. They shall attend to all the complaints received immediately as follows.

**(a)** Minor Faults immediately (within three hours).

**(b)** Major faults within 24 Hrs by replacement method, with the available spares, on explicit and clear orders of Head of IT & MIS.

**I** The replacement of components, assemblies shall be as per manufacturer's instructions and under the orders of Head of IT & MIS.

**(d)** The firm shall be responsible for taking backup data and programmed available in PC before attending the fault and shall also be responsible for reloading the same. The backup copies to be returned to the users/Alliance Air IT & MIS Team, under acknowledgement.

**I** The firm shall maintain the equipment's and shall use genuine/original components for replacement wherever needed. Until and unless written order of the Head of IT&MIS is conveyed, the original specifications/characteristics/features shall not be changed or modified under any circumstances.

**(f)** The firm shall also be responsible for deployment of necessary staff for regular cleaning of all hardware using suitable cleaning material and equipment. Each equipment has to be cleaned once in three months regularly. A register shall be maintained showing the cleaning of each equipment and shall be produced to the Head of IT&MIS for verification of the job.

**(g)** The schedule of preventive maintenance shall be as follows:

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- (i) Cleaning of contracted IT equipment using dry vacuum air, brush, and soft muslin clothes.
- (ii) Checking of energy source for power grounding and safety of equipment.
- (iii) Ensuring the covers, screws, switches etc. are firmly fastened in respect of each equipment.
- (iv) Scanning of all types of viruses, & elimination of the same.
- (v) Shifting of contracted equipment's within the building as and when required.

6.2 The Service Provider will maintain complete list of the units covered under AMC with serial number/ tag no, make, location and the user.

6.3 The systems that are not made serviceable by the agency due to obsolescence of technology or non-availability of spare parts/assemblies/components will be withdrawn from the contract. The decision of Head of IT&MIS regarding non availability and obsolescence of technology will be final. Withdrawal of such system shall be communicated by IT&MIS to the contracted firm, Material department and Finance Department and equivalent maintenance charges shall be deducted accordingly.

6.4 AAAL- ALLIANCE AIR reserves the right to increase or decrease quantities any time. Accordingly, the charges will be increase/decrease on pro rata basis.

6.5 Apart from this, all clauses as per tender document to be followed and adhered meticulously by the person/entity awarded with comprehensive Annual Maintenance Contract, subject adherence will be applicable throughout contract period. Any unpermitted deviation/non adherence will strictly viewed and such acts will be penalised as per laid down clauses in Tender document.

**ANNEXURE-B**

**Product Specifications and Work Scope for supply, installation, testing, & commissioning of modular UPS SYSTEM and BATTERY BANK**

SNO	DESCRIPTION	
	Scope of work and specifications for UPS systems – Two 40KVA, One 30 KVA UPS – Total QTY -3 and two UNILINE UPS 06 KVA.	
	Supply, Installation, Testing and Commissioning of True Online, UPS System Suitable for providing Power Supply to Emergency Critical Application as per details below	
1	CAPACITY	We have two 40KVA and one 30 KVA UPS. There will be three racks
2	TECHNOLOGY	Double conversion true online IGBT (rectifier and inverter) UPS system
3	INPUT/OUTPUT PHASE REQUIREMENT	3 PHASE INPUT & 3 PHASE OUTPUT
4	SYSTEM CONFIGURATION	System should be scalable to minimum 50 KVA/50 KW in future with technology of paralleling minimum 2 system cabinets of 50 KW with each other.
4a	Redundancy	System should have a redundant controller – at chase level & module level
5	Cold start feature	Required
	INPUT	
6	Nominal voltage	400 VAC
7	Voltage range	320 V- 460 V
8	Frequency	50 Hz.
9	Frequency range	40 HZ – 70 HZ.
10	Phase	4 wire (3 phase + N)
11	Power Factor	PF > .99
	OUTPUT	
12	Output Voltage	Inverter Output: 380/400/415 VAC
13	Output Power Factor	Unity (1)
14	Voltage stability steady rate	+ - 1 %
15	Inverter Output Frequency	50 Hz.
16	Current Crest Ratio	03:01
17	Harmonic distortion	<1% for linear 100% load & <4% for 100 % non-linear load
18	Transfer time: AC MODE TO BATT MODE and inverter to bypass	<20 ms
19	Waveform	Pure Sinewave
	EFFICIENCY	

20	AC TO AC EFFICIENCY	BETWEEN 95% AND 96% FOR LOAD > 30%
	BATTERY	
21	BATTERY TECHNOLOGY	SMF VRLA
22	Back Up time	One hour on full load
23	AH Rating	VAH need to be 48000 minimum for 30 KVA ups requirement. Required for 1 hr. back up.
24	Battery numbers and placement	Vendors to specify the qty. of Batteries. Placement will be done by the tenderer in suitable MS racks (to be provided by the tenderer) with required battery interconnections and battery to UPS connections (10 mtrs. To be taken as standard)
25	Variable Battery	UPS system should have variable DC capacity (30-40 nos). In case of few battery failures same can be taken out of system & UPS can work normally so that it does not affect the daily work.
26	Charging Capacity	Minimum 90 % in 9 hr. charging operation.
27	Control buttons	Off/ On switch required
28	BYPASS	Automatic transfer to Bypass during fault / overload condition. Facility should exist for enabling / disabling the bypass at site.
29	Maintenance bypass	System should have maintenance bypass for carrying out maintenance.
	INDICATORS	
30	LCD PANEL	Ups Status, Load Level, Battery level, Input / Output voltage, discharge timer and fault conditions
	ALARM	
31	Battery mode	Required
32	Low battery	Required
33	Overload	Required
34	Fault	Required
35	System on bypass	Required
	INPUT / OUTPUT CONNECTIONS	
	Surge Protection	Should be available
36	Input connection	Input will be connected by appropriate rating ISI marked cable / wires by UPS vendor to AAAL MCB/DB which will not be normally more than 10 mtrs. Away.

<b>37</b>	<b>Output connections</b>	<b>Output will be connected by appropriate rating ISI marked cable/wires by UPS vendor to AAAL MCB/DB which will not be normally more than 10 mtrs. Away.</b>
	<b>ENVIRONMENT</b>	
<b>38</b>	<b>Humidity</b>	<b>20-90 % RH @0-40 Degree Centigrade</b>
<b>39</b>	<b>Noise Level</b>	<b>Less than 60 db @ meter</b>
	<b>MANAGEMENT</b>	
<b>40</b>	<b>SMART RS-232</b>	<b>Should support Windows 2000/2003/XP/Vista/2008/2010, Windows 7, Linux, Unix and MAC</b>
<b>41</b>	<b>SNMP</b>	<b>Power Management through SNMP should be provided and should provide for communication with LAN network available site. Any software required for this should be provided and installed by the vendor. AAAL should be able to see the health of UPS from PC connected on the LAN</b>
	<b>STANDARDS/CERTIFICATIONS</b>	
<b>42</b>	<b>UPS CABINET</b>	<b>IP 20 compliant</b>
<b>43</b>	<b>UPS</b>	<b>General standards: IEC 62040/1 IEC 62040/2 (Tenderer must attach documentary proof relevant to the offered product)</b>

**ANNEXURE – C**

**TECHNO-COMMERCIAL BID FORMAT**

Tenderers are advised to study the tender documents carefully. Submission of tender shall be deemed to have been done after careful study and examination of the tender document with full understanding of its implications, nature and character of the work to be carried out, operating conditions and other pertinent matters which may affect the supplier contract and /or the cost.

SNO.	DESCRIPTION		COMPLIANCE BY THE TENDERER (ONLY YES)
A	PRODUCT SPECS FOR MODULAR UPS SYSTEMS AND WORK SCOPE – 40&30 KVA RATING – QTY – 3&1 and two 06 KVA UNILINE		
1	CAPACITY	We have two 40KVA , one 30 KVA & TWO 6KVA (UNILINE) UPS. There will be three racks	
2	TECHNOLOGY	Double conversion true online IGBT (rectifier & inverter) UPS SYSTEM	
3	INPUT/OUTPUT PHASE REQUIREMENT	3-PHASE INPUT AND 3-PHASE OUTPUT	
4	MANUFACTURERS NAME	TENDERER TO SPECIFY	
5	MODEL OFFERED	TENDERER TO SPECIFY	
6	SYSTEM CONFIGURATION	System should be scalable to minimum 50 kva/ 50 kw in future with technology of paralleling minimum 2 system cabinets of 50 kw with each other.	
6a	Redundancy	System should have a redundant controller – at chase level and module level.	
7	Cold start feature	Required	
	INPUT		
8	NOMINAL VOLTAGE	400 VAC	
9	VOLTAGE RANGE	320 V-460 V	
10	FREQUENCY	50 HZ.	
11	FREQUENCY RANGE	40 HZ.-70 HZ.	
12	PHASE	4 WIRE(3 PHASE + N)	
13	INPUT POWER FACTOR	PF>0.99	
	OUTPUT		
14	OUTPUT VOLTAGE	INVERTER OUTPUT: 380/400/415 VAC	
15	OUTPUT POWER FACTOR	UNITY (1)	
16	Voltage Stability Steady State	+/- 1 %	
17	Inverter output frequency	50 hz.	
18	Current crest ratio	03:01	

19	Harmonic distortion	<1% for linear 100% load &<4% for 100% non-linear load	
20	Transfer time (ac mode to batt mode and inverter to bypass)	< 20 ms	
21	Waveform	Pure sinewave	
	EFFICIENCY		
22	Ac to AC Efficiency	Between 95 % and 96% for load > 30 %	
	BATTERY		
23	Battery technology	SMF VRLA	
24	BACK UP TIME	ONE HOUR ON FULL LOAD	
25	AH RATING	VAH needs to be 48000 minimum for 30 kva UPS requirement. Required for 1 hour backup.	
26	Battery numbers and placement	Vendor to specify the quantity of batteries. Placement will be done by the tenderer in suitable MS racks (to be provided by the tenderer) with required interconnections and battery to UPS connections (10 mtrs. To be taken as standard)	
27	Variable battery	UPS system should have variable DC capacity (30-40 nos). In case of few battery failure same can be taken out of system & UPS can be work normally so that it does not affect the daily work.	
28	Charging capacity	Minimum 90 % in 9 hour charging operation.	
29	Control Buttons	Off/On switch required.	
30	Bypass	Automatic transfer to bypass during fault/overload condition. Facility should exist for enabling / disabling the bypass at site.	
31	Maintenance bypass	System should have maintenance bypass for carrying out maintenance.	
	INDICATORS		
32	LCD PANEL	Ups Status , Load Level, Battery Level, Input / output voltage, discharge timer and fault conditions.	
	ALARM		
33	Battery Mode	Required	
34	Low battery	Required	
35	Overload	Required	

36	Fault	Required	
37	System on bypass	Required	
	INPUT/OUTPUT CONNECTONS		
38	Surge protection	Should be available	
39	Input connection	Input will be connected by appropriate rating ISI marked cable / wires by UPS vendor to AAAL MCB/DB which will not be normally more than 10 mtrs. Away.	
40	Output connections	Output will be connected by appropriate rating ISI marked cable / wires by UPS vendor to AAAL MCB/DB which will not be normally more than 10 mtrs. Away.	
	ENVIRONMENT		
41	Humidity	20-90% RH@0-40 degree centigrade (non-condensing)	
42	NOISE LEVEL	LESS THAN 60 DB@ METER	
43	SMART RS-232	Should support windows 2000/2003/XP / Vista/2008/2010, windows 7, LINUX, UNIX and MAC	
44	SNMP	Power management through SNMP should be provided and should provide for communication with LAN network available site. Any software required for this should be provided and installed by the vendor. AAAL should be able to see the health of UPS from PC connected on the LAN.	
	STANDARDS/CERTIFICATIONS		
45	UPS CABINET	IP 20 COMPLIANT	
46	UPS	General standards: IEC 62040/1 IEC 62040/2 (TENDERER MUST ATTACH DOCUMENTARY PROOF RELEVANT TO THE OFFERED PRODUCT)	
B	ELIGIBILITY QUALIFICATIONS		TENDERER'S RESPONSE
I	STATUS OF THE TENDERER	OEM/CHANNEL PARTNER/AUTHORISED DISTRIBUTOR	
	In case of offer from the channel partner / distributor	Whether an undertaking by the OEM to fulfil, either directly or through the channel partner / authorised distributor, all obligations as per the tender terms for the full term has	

		been submitted .(MUST)	
		Whether an undertaking by the OEM that OEM will be able to provide either directly or through its authorised distributor, comprehensive onsite post warranty maintenance of UPSs at Delhi/ NCR, as per warranty period SLAs for a further period of 5 years from the date of expiry of warranty of 2 yrs. For UPS system and 5 yrs for battery bank has been submitted. (MUST)	
II	The tenderer must have working office in Municipal limits of DELHI/NCR in his name for providing after sales support , as on date of the submission of the tender.	Documentary proof in support of working office in municipal limits of Delhi/NCR must be enclosed. (MUST)	
III	The tenderer must have a Permanent Account Number (PAN)	A copy of PAN is to be submitted. (MUST)	
IV	The tenderer must have a currently valid GST / Sales tax / vat Registration certificate	A copy of the GST/ SALES TAX/ VAT Registration certificate is to be submitted along with the technical bid. (MUST)	
V	Tenderer must have been in the business of supplying UPSs in the last 3 financial years	Documentary proof for the same must be attached in the form of the customers purchase orders on tenderers name.	
VI	The OEM should be ISO 9001 certified.	Copy of earlier type test report of similar capacity / more , UPS and battery supplied should be submitted along with the technical bid.(MUST)	
VII	The UPS and Battery bank offered against this tender should be type tested by the govt accredited agency.	Copy of earlier type test report of similar capacity / more, UPS and battery supplied should be submitted along with the technical bid.(MUST)	

**NOTE:**

1. It may be noted that documentary proofs, wherever asked for in this tender, must be attached by the tenderer in the technical bid failing which the tenderer's bid is liable to be rejected, however AAAL reserves the right to call for any documents which may requires evaluation.

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2. Technical evaluation will be done based on the minimum specs of the product and the eligibility criteria indicated in the tender. Parties fulfilling the above specs and the eligibility criteria will only be technically qualified and the financial bids of these technically qualified parties will be opened for which intimation would be sent to those parties.

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ANNEXURE – D

**COMMERCIAL BID FORMAT**

**COMMERCIAL BID TO BE SUBMITTED ON VENDOR'S LETTERHEAD**

Sr. no	DESCRIPTION	QTY	UNIT RATE	TOTAL AMT(EXCL OF GST)	GST	TOTAL (INCLUDING GST)
1	40 KVA POWER ONE MODULER UPS	02				
2	30 KVA POWER ONE MODULER UPS	01				
3	06 KVA UNILINE UPS	02				