

**बिड दस्तावेज़ / Bid Document**

<b>बिड विवरण/Bid Details</b>	
<b>बिड बंद होने की तारीख/समय /Bid End Date/Time</b>	23-06-2026 16:00:00
<b>बिड खुलने की तारीख/समय /Bid Opening Date/Time</b>	23-06-2026 16:30:00
<b>बिड पेशकश वैधता (बंद होने की तारीख से)/Bid Offer Validity (From End Date)</b>	180 (Days)
<b>मंत्रालय/राज्य का नाम/Ministry/State Name</b>	Ministry Of Civil Aviation
<b>विभाग का नाम/Department Name</b>	Ai Engineering Services Limited
<b>संगठन का नाम/Organisation Name</b>	Ai Engineering Services Limited
<b>कार्यालय का नाम/Office Name</b>	Ai Engineering Services Limited
<b>शिकायत निवारण के संपर्क विवरण/ Contact details of Grievance redressal</b>	bala.murali@aiesl.in
<b>कुल मात्रा/Total Quantity</b>	10
<b>वस्तु श्रेणी /Item Category</b>	Unitary Air Conditioner (Window AC) (V3) ISI Marked to IS 1391 (Part 1) (Q2) , Automatic Line Voltage Correctors (Step Type) For Domestic Use (Stabilizer) Conforming To IS 8448 (Q2)
<b>उन्हीं/समान सेवा के लिए अपेक्षित विगत अनुभव के वर्ष/Years of Past Experience Required for same/similar service</b>	2 Year (s)
<b>टर्नओवर के लिए एमएसई को छूट प्राप्त है / MSE Relaxation for Turnover</b>	Yes   Complete
<b>स्टार्टअप के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है /Startup Relaxation for Years of Experience and Turnover</b>	No
<b>विक्रेता से मांगे गए दस्तावेज़/Document required from seller</b>	Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover,Additional Doc 1 (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
<b>क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेज़ों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ मेन् है/Do you want to show documents uploaded by bidders to all bidders participated in bid?</b>	Yes (Documents submitted as part of a clarification or representation during the tender/bid process will also be displayed to other participated bidders after log in)

बिड विवरण/Bid Details	
बिड लगाने की समय सीमा स्वतः नहीं बढ़ाने के लिए आवश्यक बिड की संख्या। / <b>Minimum number of bids required to disable automatic bid extension</b>	3
दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / <b>Number of days for which Bid would be auto-extended</b>	3
ऑटो एक्सटेंशन अधिकतम कितनी बार किया जाना है। / <b>Number of Auto Extension count</b>	2
विगत प्रदर्शन / <b>Past Performance</b>	10 %
बिड से रिवर्स नीलामी सक्रिय किया/ <b>Bid to RA enabled</b>	No
बिड का प्रकार/ <b>Type of Bid</b>	Single Packet Bid
प्राथमिक उत्पाद श्रेणी/ <b>Primary product category</b>	Unitary Air Conditioner (Window AC) (V3) ISI Marked to IS 1391 (Part 1)
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय / <b>Time allowed for Technical Clarifications during technical evaluation</b>	5 Days
निरीक्षण आवश्यक (सूचीबद्ध निरीक्षण प्राधिकरण /जेम के साथ पूर्व पंजीकृत एजेंसियों द्वारा)/ <b>Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)</b>	No
अनुमानित बिड मूल्य / <b>Estimated Bid Value</b>	295000
<b>Payment Timelines</b>	Payments shall be made to the Seller within <b>45</b> days of issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills (This is in supersession of 10 days time as provided in clause 12 of GeM GTC)
<b>मूल्यांकन पद्धति/Evaluation Method</b>	Total value wise evaluation
<b>मध्यस्थता खंड/Arbitration Clause</b>	No
<b>सुलह खंड/Mediation Clause</b>	No

#### ईएमडी विवरण/EMD Detail

आवश्यकता/Required	No
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#### ईपीबीजी विवरण /ePBG Detail

आवश्यकता/Required	No
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बोली विभाजन लागू नहीं किया गया/ Bid splitting not applied.

**एमआईआई खरीद वरीयता/MII Purchase Preference**

एमआईआई खरीद वरीयता/MII Purchase Preference	No
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**एमएसई खरीद वरीयता/MSE Purchase Preference**

एमएसई खरीद वरीयता/MSE Purchase Preference	Yes
सूक्ष्म और लघु उद्यम मूल उपकरण निर्माताओं/सेवा प्रदाता को खरीद में प्राथमिकता, यदि उनका मूल्य L1+X% / Purchase Preference to MSE OEMs/ Service Provider available upto price within L1+X%	15
सूक्ष्म और लघु उद्यम मूल उपकरण निर्माता/सेवा प्रदाता को खरीद में प्राथमिकता के लिए बिड की मात्रा का अधिकतम प्रतिशत / Percentage of Bid quantity/amount for MSE OEMs/ Service Provider Purchase preference	25

**ट्रेड्स भुगतान संबंधी विवरण/TReDS Payment Details**

**This Bid provides for Trade Receivables Discounting System (TReDS) as Preferred mode of payment. For MSME sellers, payments may be processed through a TReDS exchange in which the Buyer is registered, subject to applicable policy and regulatory guidelines. Accordingly, sellers intending to avail payment through TReDS are required to be registered with at least one TReDS exchange in which the buyer is registered.**

1. If the bidder is a Micro or Small Enterprise (MSE) as per latest orders issued by Ministry of MSME, the bidder shall be relaxed from the eligibility criteria of "Bidder Turnover" as defined above subject to meeting of quality and technical specifications. If the bidder itself is MSE OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover, shall upload the supporting documents to prove his eligibility for Relaxation.
2. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM of the product offered in the bid {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts and delivery acceptance certificates like CRAC to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
3. **Purchase preference to Micro and Small Enterprises (MSEs):** Purchase preference will be given to MSEs having valid Udyam Certificate and whose credentials are validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service, and Buyer will decide eligibility for purchase preference based on documentary evidence submitted in case of product bids, whereas in case of services the eligibility is automatically validated. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the [OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.

4. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

5. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 10% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

6. Short Duration Bid has been published by the Buyer with the approval of the Competent authority due to Emergency procurement of critical products/services.

### Unitary Air Conditioner (Window AC) (V3) ISI Marked To IS 1391 (Part 1) ( 5 pieces )

Bis Required	Yes
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#### तकनीकी विशिष्टियाँ /Technical Specifications

\* जेम केटेगरी विशिष्टि के अनुसार / As per GeM Category Specification

विवरण/Specification	विशिष्टि का नाम /Specification Name	बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)
Performance Parameters	<b>Size of Air Conditioner</b>	Medium [suitable for room area between 130-180 sq. ft.]
	<b>Compressor Type as per BEE Star Rating Label</b>	Inverter - Variable Speed
	<b>Nominal Capacity of Air Conditioner (in Ton)</b>	1.3 Ton - 1.7 Ton
	<b>Classification By Function</b>	Cooling Only
	<b>BEE Star Rating</b>	3 Star, 4 Star, 5 Star
Warranty and Test Reports	Minimum Standard Warranty on Air Conditioner (in years)	1.0 (year)
	Warranty on Compressor	10 Or higher (year)
	Warranty on PCB	1.0 (year)

#### परेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Rajesh Bassi	600016,AI ENGINEERING SERVICES LTD., NEW ENGINEERING HANGAR, INTEGRATED SERVICE COMPLEX, MEENAMBAKKAM CHENNAI - 600016	5	15

**Automatic Line Voltage Correctors (Step Type) For Domestic Use (Stabilizer)  
Conforming To IS 8448 ( 5 pieces )**

**तकनीकी विशिष्टियाँ /Technical Specifications**

[\\* जेम केटेगरी विशिष्टि के अनुसार / As per GeM Category Specification](#)

विवरण/Specification	विशिष्टि का नाम /Specification Name	बिड के लिए आवश्यक अनुमत मूल्य /Bid Requirement (Allowed Values)
Construction	<b>Rating (in KVA)</b>	5.0
	Provision of Power Supply Cord	Yes, Minimum 1.5 meter cord Provided
	Provision of Plug and Socket	Yes, (3-pin plug on input side and socket on output side of 15 A rating) Provided
	Availability of Terminals for Both Input and Output	Yes
	Temperature Class of insulation (Hint: Indicates the maximum permissible temperature rise of the winding above the ambient cooling air temperature)	Class F
	Compliance to Eco-Mark	Yes, No

**परेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity**

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Rajesh Bassi	600016,AI ENGINEERING SERVICES LTD., NEW ENGINEERING HANGAR, INTEGRATED SERVICE COMPLEX, MEENAMBAKKAM CHENNAI - 600016	5	15

**Special terms and conditions-Version:2 effective from 02-12-2025 for category Unitary Air**

## Conditioner (Window AC) (V3) ISI Marked to IS 1391 (Part 1)

### 1. **Scope of standard installation and commissioning for Unitary (Window) AC consist of follows:**

- a)** Installation/Commissioning is mandatory for all types of purchases (Direct/L1/Bid). For cases where Installation/Commissioning is not required, the buyer may indicate the details in the bid document.
- b)** The Switches/ Sockets/ Plug Tops/ Voltage Stabilizer are not included in the scope of standard installation and commissioning, unless otherwise mentioned in the contract.

## Special terms and conditions-Version:1 effective from 10-10-2025 for category Automatic Line Voltage Correctors (Step Type) For Domestic Use (Stabilizer) Conforming To IS 8448

1. **1.** The marking, construction, safety requirements, terminal marking of Automatic Line Voltage Correctors shall conform to the IS 8448.
- 2.** Presently, the products under this category are not covered under mandatory BIS licensing scheme. Hence, both ISI Marked and non-ISI Marked products may be available in this category. However, if a buyer intends to procure ISI Marked products, buyer may, at his discretion, opt for the same by indicating the requirement in the bid, after taking into account the number of valid licenses issued under the standard. In such cases, buyer shall verify valid BIS License as per the applicable governing standard at the time of evaluation of bid and check the ISI marking on the products at the time of receipt of material before issuing of CRAC.
- The valid BIS license status of sellers may be viewed by buyer from the below link.

<https://www.manakonline.in/MANAK/ApplicationLicenceRelatedrpt>

or

[https://www.services.bis.gov.in/php/BIS\\_2.0/bisconnect/knowyourstandards/indian\\_standards/isdetails](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/knowyourstandards/indian_standards/isdetails)

## क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें/Buyer Added Bid Specific Terms and Conditions

### 1. **Generic**

After award of contract – Successful Bidder shall have to get Detailed Design Drawings approved from buyer before starting fabrication. Successful Bidder shall submit Detailed Design Drawings for Buyer's approval, within 5 days of award of contract. Buyer shall, either approve the drawings or will provide complete list of modification required in the drawings within 5 days. Seller shall be required to ensure supply as per approved Drawings with modifications as communicated by Buyer. If there is delay from buyer side in approval of drawing– the delivery period shall be refixed without LD for the period of delay in approval of Drawing.

### 2. **Generic**

Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address

AI Engineering Services Limited  
NEW ENGINEERING HANGAR  
INTEGRATED SERVICE COMPLEX  
MEENAMBAKKAM, CHENNAI  
6 0 0 0 1 6

### 3. **Generic**

**Bidder financial standing:** The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.

### 4. **Generic**

Bidders shall quote only those products (Part of Service delivery) in the bid which are not obsolete in the market and has at least 5 years residual market life i.e. the offered product shall not be declared end-of-life by the OEM before this period.

5. **Generic**

Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.

6. **Generic**

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 for 2 years 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 primary product having highest value should meet this criterion.

7. **Generic**

Installation, Commissioning, Testing, Configuration, Training (if any - which ever is applicable as per scope of supply) is to be carried out by OEM / OEM Certified resource or OEM authorised Reseller.

8. **Generic**

**Manufacturer Authorization:**Wherever Authorised Distributors/service providers are submitting the bid, Authorisation Form /Certificate with OEM/Original Service Provider details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid

9. **Generic**

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity up to 25% of the contracted quantity during the currency of the contract at the contracted rates. The delivery period of quantity shall commence from the last date of original delivery order and in cases where option clause is exercised during the extended delivery period the additional time shall commence from the last date of extended delivery period. The additional delivery time shall be  $(\text{Increased quantity} \div \text{Original quantity}) \times \text{Original delivery period (in days)}$ , subject to minimum of 30 days. If the original delivery period is less than 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery duration up to the original delivery period while exercising the option clause. Bidders must comply with these terms.

10. **Buyer Added Bid Specific ATC**

Buyer Added text based ATC clauses

Technical Specifications - **ITEM 1 - 2 TON WINDOW AIR CONDITIONER**

**The Window Air Conditioners shall provide effective space cooling, dehumidification , and air circulation in the MRO Hangar office / work areas at Chennai (MAA), where ambient temperatures can reach up to 45°C with high relative humidity (RH up to 85%). The units shall operate reliably under continuous duty in industrial-adjacent environments.**

S. No	Parameter	Requirement / Specification	Acceptance Criteria
1	Cooling Capacity (Nominal)	Minimum 6,000 W (approx. 2 TR / 20,448 BTU/h)	As per BEE test report / ISEER certificate
2	ISEER (Indian Seasonal Energy Efficiency Ratio)	Minimum 3.50 (3-Star BEE Rating or better)	BEE Star Label Mandatory; 5-Star preferred

3	Rated Cooling Capacity at 43°C OAT	Not less than 5,500 W	To be declared by bidder; verified from BEE data
4	Operating Ambient Temperature Range	18°C to 50°C (Outdoor); 16°C to 30°C (Indoor set point)	Functional test at site
5	Humidity Range	20% to 95% RH (non-condensing, indoor)	Operational without malfunction
6	Dehumidification Capacity	Minimum 1.2 litres/hour	As per manufacturer's data sheet
7	Airflow (Indoor)	Minimum 550 m <sup>3</sup> /h (High Fan Speed)	Measured at site or as per manufacturer data
8	Noise Level (Indoor)	Not exceeding 55 dB(A) at 1 m distance	Tested per IS 1391
9	Refrigerant Type	R-32 or R-410A (ODP = 0; Low GWP preferred)	As per OEM spec; R-22 NOT acceptable
10	Power Supply	230V AC, Single Phase, 50 Hz ± 5%	BEE label / nameplate
11	Rated Power Input (max)	Not exceeding 2,200 W	BEE certificate / nameplate
12	Running Current (max)	Not exceeding 10.5 A at 230 V	Measured at commissioning
13	Starting Current (max)	Not exceeding 3x running current	Measured at commissioning

<b>S. No</b>	<b>Standard / Certification</b>	<b>Description</b>	<b>Mandatory / Preferred</b>
1	IS 1391 (Part 2): 2018	Room Air Conditioners - Window/Split type - Specification	MANDATORY - BIS Certification (ISI Mark)
2	BEE Star Rating (EC Act 2001)	Minimum 3-Star; 5-Star preferred	MANDATORY
3	IS 694: 2010	PVC insulated cables and flexible cords	MANDATORY for supplied cables
4	IS 2993: 2019	Capacitors for AC power circuits	MANDATORY
5	IS 13252 (Part 1): 2010	IT Equipment - Safety (applies to PCB/controller)	Preferred
6	IS 16046 (Part 1): 2018	Safety of household electrical appliances	As applicable

7	ASHRAE 16 / ISO 5151	Performance testing method - if imported compressor	For test data reference
8	Montreal Protocol	Refrigerant must be non-CFC / HFC compliant	MANDATORY
9	RoHS / WEEE Compliance	Restriction of hazardous substances	Preferred; to be declared
10	IS/IEC 60335-2-40	Safety - Particular requirements for heat pumps	MANDATORY

### **Scope of Supply - Window AC (Per Unit)**

The following shall be included in the unit price quoted per Window AC:

- One (1) number Window Air Conditioner unit (2 Ton, as specified) with indoor grille, remote control, batteries for remote
- One (1) number Mounting frame / window kit (galvanised steel) with all fasteners
- Interconnecting power cable from Stabilizer output to AC unit - minimum 2.5 sq mm, 3-core PVC copper cable as per IS 694, length as required (max 3 m, bidder to confirm site layout)
- All nuts, bolts, anchors, clamps, rubber gaskets, sealants for mounting
- Unit specific earthing wire minimum 2.5 sq mm green/yellow insulated
- Drain hose / tray (if applicable)
- Owner's Manual, Installation Manual, Warranty Card (in English)
- BEE Star Label (physically affixed on unit)
- BIS/ISI License copy or certificate applicable to the supplied batch

### **Installation & Commissioning Scope - Window AC**

1. Site survey prior to procurement / submission of technical offer to confirm wall/window dimensions and structural adequacy
2. Supply of all hardware, fasteners, sealants, anti-vibration pads
3. Fabrication and installation of MS angle support frame (if wall opening is non-standard) - included in scope
4. Installation of unit in wall opening with proper slope (1° outward for drainage)
5. Sealing of all gaps between unit and wall to prevent air infiltration, water ingress, and insect entry
6. Connection to Stabilizer output; all terminations with crimped lugs; proper cable routing with clamps
7. Earth continuity testing before energisation
8. Leak testing of refrigerant circuit (no leak test required if factory pre-charged sealed unit - ISEER certificate sufficient).
9. Functional testing: cooling performance, all fan speeds, thermostat operation, timer, auto-restart, remote control.
10. Measurement and recording of running current, voltage, temperature differential (supply vs. return air).
11. Commissioning report to be submitted and signed by Supplier and Purchaser representatives.

12. The contractor shall carry out necessary civil works including: Cutting/enlarging window opening if required. Fabrication and fixing of MS supporting frame (if required). Cement mortar finishing around AC. Sealing of gaps using foam / silicone / weatherproof sealant. Plastering and touch-up painting around installation area. Disposal of debris from site. No structural damage shall be caused to existing building.
13. The scope includes complete electrical connectivity from nearest power source to AC unit: Supply and laying of suitable size FRLS copper cable (ISI marked). Providing 15/20 Amp industrial socket outlet. Heavy-duty 3-pin plug top. Providing and fixing appropriate rating MCB (C-curve). Surface/Concealed PVC conduit with saddles and accessories. Proper earthing connection to AC body and stabilizer. Termination using copper lugs and ferruling. Dressing and clamping of cables neatly. All electrical work shall comply with: Indian Electricity Rules, IS standards, Safety norms applicable at AIESL premises

## **ITEM 2 - 6 KVA CLASS-F AUTOMATIC VOLTAGE STABILIZER**

The Automatic Voltage Stabilizers (AVS) shall provide stable, regulated output voltage to each 2-Ton Window Air Conditioner unit, protecting the compressor and associated electrical components from damage due to voltage fluctuations prevalent at the MRO Hangar power supply points. Each stabilizer shall be dedicated to one AC unit (1:1 ratio).

<b>S. No.</b>	<b>Parameter</b>	<b>Specification</b>	<b>Acceptance Criteria</b>
1	Rated Capacity	6 KVA (6000 VA) at unity power factor; i.e., 6 kW effective load capacity	Nameplate rating; load test
2	Rated Output Voltage	230 V AC $\pm$ 1% (single phase)	Measured at output terminals under full load
3	Input Voltage Range (Working)	160 V to 270 V AC (continuous operation)	Voltage variation test
4	Input Voltage Range (Extreme / Shutdown)	Below 130 V and above 290 V - auto shutdown with alarm	Trip test
5	Output Voltage Accuracy	$\pm$ 2% of rated output (230V $\pm$ 5V)	Measured across full input range
6	Frequency Range	50 Hz $\pm$ 3 Hz	Operational requirement
7	Regulation Speed	Within 10 cycles (200 ms) from deviation to correction	Dynamic response test
8	Efficiency	Minimum 97% at full load	Power input vs. output measurement
9	Waveform Distortion (THD)	Not more than 3% additional THD introduced by stabilizer	Harmonic analyser measurement
10	Operating Temperature	0°C to 50°C ambient; Class F insulation	Per IS / IEC specification
11	Insulation Class	Class F (155°C) for windings	Winding insulation test certificate

12	Overload Capacity	110% of rated KVA for 30 minutes continuously	Load test at factory / site
13	Short Circuit Protection	Electronic + thermal; auto-reset after clearance	Functional test
14	Time Delay (Compressor Protection)	Minimum 3-minute time delay on power restoration / output switch ON	Timer test with stopwatch

### Scope of Supply - Stabilizer (Per Unit)

- One (1) number 6 KVA, Class-F Automatic Voltage Stabilizer as specified
- Input power cable - 4 sq mm, 3-core PVC copper, length as required (max 3 m from DB / isolator)
- Output power cable from stabilizer to AC unit - 2.5 sq mm, 3-core PVC copper, as required
- Earthing conductor - minimum 2.5 sq mm green/yellow PVC copper
- All mounting hardware, wall plugs, conduit clips
- Circuit diagram (laminated, affixed inside door)
- Operation & maintenance manual
- Warranty card
- BIS / ISI License copy or test certificate for supplied batch

### Installation & Commissioning Scope - Stabilizer

1. Wall/floor mounting of stabilizer in accessible location adjacent to respective AC unit
2. Input wiring from designated DB point / isolator to stabilizer input terminals
3. Output wiring from stabilizer output terminals to AC unit power supply terminals
4. Earth bonding of stabilizer enclosure to site earthing system
5. Insulation resistance (IR) test of all cables before energisation - values to be recorded
6. Earth continuity resistance test - to be < 1 Ohm
7. Energisation and verification of output voltage under no-load and full-load (AC unit running) conditions
8. Verification of all protection operations: over-voltage trip, under-voltage trip, time delay function
9. Noise and vibration check - no abnormal sound at any load level
10. Commissioning data sheet to be submitted for each unit individually

#### a) Quantity & Delivery Location Details:

S I.	Item Description	Qty. Required	Item to be Delivered at
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1	Supply, Installation, Commissioning & Testing of 2 TON WINDOW AIR CONDITIONER at AIESL, MAA. with all accessories (As specified in Section 3.1)	05 Nos	Dy.GM(LM) AI Engineering Services Limited (AIESL) <b>ADDRESS:</b>
2	Supply, Installation, Commissioning & Testing of 6 KVA CLASS-F AUTOMATIC VOLTAGE STABILIZER at AIESL, MAA. with all accessories (As specified in Section 3.1)	05 Nos	NEW ENGINEERING HANGAR INTEGRATED SERVICE COMPLEX, MEENAMBAKKAM, CHENNAI -600016 Email: <a href="mailto:rajesh.bassi@aiesl.in">rajesh.bassi@aiesl.in</a>

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**DELIVERY SCHEDULE:** The Supplier shall complete supply, installation, testing, and commissioning of all 5 (five) Window AC units and 5 (five) AVS units at the delivery address specified in this tender within 15 (Fifteen) calendar days from the date of acceptance of LOA or issuance of Purchase Order, whichever is earlier. Partial deliveries are permissible, provided the complete supply is made within the overall delivery period. If partial delivery is made, LD shall be applied only on the undelivered/uninstalled portion. The delivery period shall be counted as: Day 0 = date of LOA acceptance / PO issuance, Day 15 = Delivery of the Products. Day 30 = final date for commissioning and submission of commissioning report at site. Extension of delivery period may be considered only for force majeure events, with documentary evidence, on written application before expiry of original delivery period.

1. AIESL team may visit your premises for pre delivery inspection and check whether the Meets our requirement
2. Vendor should provide the following along with equipment, as per the industrial standard.
  - a) **Test certificates, warranty card, operation & maintenance manuals.**
3. **Penalty for Delayed Deliveries:** You have to adhere to the agreed delivery schedule, in case of delay in delivery; penalty for late delivery will be charged at the rate of 1/2% (half percent) per week or part thereof of the value of delayed supplies, subject to a maximum of 10% (ten percent) of the value of delayed supplies. In the event of the continued delayed supply, then AIESL., reserves the right to cancel the Purchase Order and to take appropriate necessary action in its interests.
  - a) AIESL reserves the right to **increase/decrease the qty to the extent of 25%** of the tendered qty at the same rate, terms and conditions of the tender/contract/PO.
  - b) Bidders should **take above points in to considerations before / while submitting their bid. The rates quoted shall be as applicable to Govt. Institutions/PSUs.**
  - c) *Bidders shall submit an undertaking confirming their willingness and commitment to supply goods strictly in accordance with the prescribed specifications and to fully accept and comply with all terms and conditions stipulated in this Tender.*

#### 11. Buyer Added Bid Specific ATC

Buyer uploaded ATC document [Click here to view the file.](#)

## 12. **Warranty**

Warranty period of the supplied products shall be 1 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.

## **अस्वीकरण/Disclaimer**

The Additional Terms and Conditions (ATC) have been incorporated by the Buyer after approval of their Competent Authority. The Buyer ,is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any restriction arising in the bidding process due to these ATCs and including the modification of technical specifications and / or terms and conditions governing the bid.All representations / grievances pertaining to the ATC clauses shall be raised with the buyer organization directly and not with GeM.If any of the clause(s) is/are incorporated by the Buyer regarding the following, the bid & resultant contract shall be treated as null & void. Further, GeM reserves the right, at its sole discretion, to cancel the bid forthwith, without issuance of any prior notice or intimation :-

1. Publishing Custom / BOQ bids for items for which regular GeM categories are available (unless such Custom / BOQ item is bunched with the major regular product Category Item).
2. Mandating procurement of / from specific Brand / Make / Model / Manufacturer / Dealer except in case of Single Bid / Proprietary Article Certificate (PAC) Buying.
3. Inclusion of disqualification criteria related to suspension of seller / service provider, where such suspension period has already expired.
4. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
5. Publishing bids on GeM for procurement of works.
6. Procurement of Goods by creating a Service bid on GeM & vice-versa.
7. Seeking sample with bid or approval of samples during bid evaluation process. However, trial / sample, as the case may be, shall be permitted in cases where trial / sample are allowed as per approved and published procurement policy of the Buyers' controlling Ministry / Department / State / Public Sector Enterprises Headquarters. If there is any violation of trial / sample clause with regard to approved policy of the Buyers' Ministry / Department / State / Public Sector Enterprises Headquarters, then this is to be determined and redressed by the concerned Buyer Organisation only.
8. Seeking experience from specific organization / department / institute only or from foreign / export experience.
9. Creating bid for items from incorrect categories.
10. Reference of conditions published on any external site or reference to external documents/clauses.
11. Asking for any Tender fee / Bid Participation fee, as the case may be.
12. Buyer added ATC Clauses which are in contravention of clauses defined in bid detail section, including specifications, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by the applicable GeM GTC.
13. Any ATC clause in contravention with GeM GTC Clause 4 (xiii) (h) will be invalid. In case of multiple L1 bidders against a service bid, the buyer shall place the Contract by selection of a bidder amongst the L-1 bidders through a Random Algorithm executed by GeM system.
14. In a category based bid, adding additional items, through buyer added, additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogues or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller. Buyer is duty bound to reply to all such

representations and would not be allowed to open bids if he fails to reply to such representations.

**All GeM Sellers/Service Providers shall ensure full compliance with all applicable labour laws, including the provisions, rules, schemes and guidelines under the four Labour Codes i.e. the Code on Wages, 2019; the Industrial Relations Code, 2020; the Occupational Safety, Health and Working Conditions Code, 2020; and the Code on Social Security, 2020 as and when notified and brought into force by the Government of India.**

**For all provisions of the Labour Codes that are pending operationalisation through rules, schemes or notifications, the corresponding provisions of the pre-existing labour enactments (such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972, etc. and relevant State Rules) shall continue to remain applicable.**

**The Seller/ Service Providers shall, therefore, be responsible for ensuring compliance under:**

- **All notified and enforceable provisions of the new Labour Codes as mentioned hereinabove; and**
- **All operative provisions of the erstwhile Labour Laws until their complete substitution.**

**All obligations relating to wages, social security, safety, working conditions, industrial relations etc. and any other statutory requirements shall be strictly met by the Seller/ Service Provider. Any non-compliance shall constitute a breach of the contract and shall entitle the Buyer to take appropriate action in accordance with the contract and applicable law.**

**This Bid is governed by the General Terms and Conditions, conditions stipulated in Bid and Service Level Agreement specific to the Service, as the case may be, as provided in the Marketplace.**

**However, in case of Service, if any condition specified in General Terms and Conditions is contradicted by the conditions stipulated in Service Level Agreement specific to said Service, then it will over-ride the conditions in the General Terms and Conditions.**

[यह बिड सामान्य शर्तों के अंतर्गत भी शासित है /This Bid is also governed by the General Terms and Conditions](#)

जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।/In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

**---धन्यवाद/Thank You---**