

# AI ENGINEERING SERVICES LIMITED

MATERIALS MANAGEMENT DIVISION / PPMM  
OLD AIRPORT, SANTACRUZ (EAST), MUMBAI – 400 029



**Tender for Supply, installation, testing and commissioning of 400 Hz portable Aircraft Ground power unit at Old Airport Premises of AIESL at Kalina, Santacruz (East), Mumbai.**

GeM Bid No. GEM/2024/B/5103107

A. Submission of Tender / Bid End Date / **28 June, 2024 at 15:55 hrs.**

B. Last Date / Time of Bid Submission: **19 July 2024 at 16:00 Hrs.**

C: Bid Offer Validity: 90 Days

C. Estimated Cost: Rs. 60,00,000/-.

D: Earnest Money Deposit: Rs. 1,20,000/-

**Important Note:- Interested parties must visit GeM site for details.**

A handwritten signature in blue ink, appearing to read 'Khalid Sabri', is positioned above the typed name and title.

*Khalid Sabri  
Senior Assistant General Manager  
M.M.D, C.A.P. Mumbai, Western Region  
AI Engineering Services Ltd.*

# AI ENGINEERING SERVICES LIMITED

MATERIALS MANAGEMENT DIVISION  
OLD AIRPORT, SANTACRUZ (EAST), MUMBAI – 400 029



Ref No-107/AIESL/MMD/GEN/107

DATE: 10 June 2024

## COVERING LETTER

**Subject:** Tender for Supply, installation, testing and commissioning of Portable, Solid State, 120 KVA (UPF), 400 Hz, Static Frequency Converter with associated copper cable and NATO connector (female) at Old Airport Premises of AIESL at Kalina, Santacruz (East), Mumbai.

**1.0** AI Engineering Services Limited (AIESL), Old Airport, Santacruz (E) invites on line bids through GeM portal from manufacturers / authorized distributors / dealers of OEM (Original Equipment Manufacturer) for the **Supply, installation, testing and commissioning of Portable, Solid State, 120 KVA (UPF), 400 Hz, Static Frequency Converter with associated copper cable and NATO connector (female).**

- a) **Description: Supply, installation, testing and commissioning of Portable, Solid State, 120 KVA (UPF), 400 Hz, Static Frequency Converter with associated copper cable and NATO connector (female)** for Aircraft power supply at Old airport(OAP), kalina, Santacruz (East), Mumbai.
- b) Tendered Quantity: 02 Nos.
- c) Total approximate Value of the contract: INR 60 Lakhs only (All inclusive).
- e) Delivery Location: BMD, AIESL, OAP, Santacruz (East), Mumbai – 400 029.
- f) Earnest Money Deposit of Rs. 1,20,000/- (One Lac and Twenty Thousand only) must be submitted by means of Cheque/DD/NEFT in favour of AI ENGINEERING SERVICES LIMITED, Account No. – 00600310007523, IFSC Code – HDFC 0000060) payable at Mumbai. EMD will not carry any interest and will be adjusted against security deposit.

## DISCLAIMER

- The information contained in this tender document or / and any information pertaining to the aforesaid subject matter provided subsequently to the applicants / bidders in any form by AIESL, shall be subject to the terms and conditions to which such information is provided contained herein and any other terms and conditions as may be prescribed by AIESL, prior to award of the Tender.
- The purpose of this tender document is to provide all bidders with the information that may be useful to them in the formulation of their proposals / bids in response to this tender document. The statements and facts contained herein, which reflect various assumptions and assessments arrived at by AIESL, do not purport to contain all / exhaustive information on the aforesaid subject matter that each applicant may require for the purposes of submitting their bids.
- The assumptions, assessments, statements and information contained in this tender document may not be complete, accurate, adequate or correct. Each bidder should, therefore, conduct its own due diligence, investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, and information contained in this tender document and shall obtain independent advice from appropriate sources at no cost to AIESL.
- The information provided in this tender document to the applicants is on a wide range of matters, some of which depend upon interpretation of law. The information given is not an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law.
- AIESL accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on the law expressed herein.
- AIESL also accepts no liability of any nature whether resulting from negligence or otherwise however caused arising from reliance by any applicant / bidder upon the statements contained in this tender document.
- AIESL may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumption contained in this tender document, from time to time till close date of tender.

*Dipak Kumar*

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- The tender document does not imply that AIESL is bound to select a bidder or to appoint the selected bidder, as the case may be, and AIESL, reserves the right to reject all or any of the proposals without assigning any reason whatsoever at any time. The bidder shall bear any and all its costs associated with or relating to the preparation & submission of its proposal / bids including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by AIESL or any other costs incurred in connection with or relating to its proposals. All such costs and expenses shall remain with the bidder and AIESL shall not be liable in any manner whatsoever for the same or any other costs or other expenses incurred by the bidder in preparation for submission of the proposal, regardless of the conduct or outcome of the bid selection process as contained herein.

## **2.0 General Terms and Conditions**

- 2.1 'AIESL' as used in the Tender document means 'AI Engineering Services Limited'.
- 2.2 "Contract" means the agreement entered into between the Purchase and the Contractor, as recorded in the contract form signed by the parties including all annexure thereto and appendices therein.
- 2.3 "Tenderer" or Seller" or "Bidder" means as used in the Tender document, is one who has submitted the quotation in response to our tender document. It also means the individual or firm or company, who are manufacturers and suppliers, on whom the order for work is placed and shall be deemed to include their approved successors, heirs, executors and administrators, holding company/Group/Group Companies, Conglomerate as the case may be.
- 2.4 It is further clarified that any individual signing the tender or other documents in connection with the tender must certify whether he signs as:
  - i) A "Sole Proprietor" of the firm or constituted attorney of such sole proprietor.
  - ii) A partner of the firm if it is a partnership must have authority to refer to arbitration and disputes concerning the business of the partnership either by virtue of the partnership agreement or a power of attorney. In the alternative, the tender should be signed by all the Partners.
  - iii) Constituted attorney of the firm, if it is a Company.
  - iv) Authorized signatory of the firm.

## **3.0 Standard Terms & Conditions:**

- 4.1 AIESL reserves the right to close the tender / reject any / all offers at any stage of tender at its sole discretion.
- 4.2 AIESL reserves the right not to consider the bid of any Bidder, blacklist the Bidder for 3 (three) years, if it is determined / noticed at any stage during the tendering process or after release of Contract that the said Bidder has directly or indirectly engaged in any misrepresentation, corrupt, fraudulent, collusive, coercive practice in order to bid / obtain the Contract. This will also have an impact on other Contracts / POs, the Bidder may have with AIESL where AIESL reserves the right to take appropriate action as deemed fit.
- 4.3 AIESL reserves the right to reject / not consider at its sole discretion the bids of such bidders who have been involved in any litigation with AIESL in the last 5 years and / or are at present involved in any ongoing litigation or arbitration proceedings against AIESL. Further, those bidders who have records of poor performance during the last 3 (three) years, as on the date of submission of the bid, such as abandoning the work, rescinding of the contract for which the

*Deepak Kumar*

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reasons are attributable to the non-performance of the Bidder or its constituents, inordinate delays in completion and/or have a consistent history of litigation / arbitration awarded against the Bidder or any of its constituents or financial failure due to bankruptcy etc. are liable to be disqualified.

- 4.4 AIESL reserves the right to reject / not consider at its sole discretion the bids of such bidders have been blacklisted / debarred by any PSU, government bodies in India.
- 4.5 Bidders are required to declare if they have any ongoing legal disputes with any government agencies such as Income Tax, EOW etc. Suppression / Misrepresentation of such facts whenever it comes to light would invite disqualification and AIESL reserves the right to take appropriate action as deemed fit including discontinuing business dealings with the party.
- 4.6 **JURISDICTION:-** The court of Mumbai only will have jurisdiction to deal with and decide upon any legal dispute what so ever arising out of this tender.

## 5.0 Specific Terms & Conditions:- Scope of work, Insurance & warranty

- 5.1 **Insurance & other obligations:** - Equipment (Including Insurance & Other Obligations) is the sole responsibility of the successful tenderer until successfully accepted by AIESL.
- 5.2 **Warranty of TWO years from the date of commissioning against all materials/ workmanship defects for the unit as well as for the bought-out items.**
- 5.3 For any warranty related issue, the Tenderer should respond within 24 Hours. Any un-serviceable Equipment beyond 20 days, in a year due to Bidders response shall attract a penalty of 0.5% per week of submitted SD/PBG. Depleted amount with regard to SD/PBG need to be topped up with in fifteen days by the tenderer.
- 5.4 **Standard Warranty should include free servicing and comprehensive parts** coverage at premises where the equipment is positioned.
- 5.5 **Post warranty requirement** - Bidder should give an undertaking that they will provide **spares support for at least 15 years, from the date of supply of units to AIESL.**
- 5.6 **On site maintenance training:** - Maintenance training shall be arranged by the bidder for a min of 4 AIESL personnel at our site. The training shall cover break down maintenance, preventive maintenance & trouble shooting.
- 5.7 Documents - Along with the units, 4 bound manuals with details of specifications, wiring diagram, trouble shooting, preventive maintenance check sheet & schedule, list of recommended spares with part number etc. Shall be supplied.
- 5.8 Installation, Testing and Commissioning are to be done by trained persons following all OEM guidelines/installation manual of OEM.
- 5.9 Electrical Supply - AIESL shall provide suitable breakers/SFU for incoming power source. From this point, all cabling to the GPU and connection for GPU Cable are in the scope of contractor.
- 5.10 **POINT OF CONTACT:** - Single point contact to be provided by the bidder along with email ID and telephone number of the contact person for any clarification during tender process.

*Duyak Kemer*

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## 6.0 TENDER PROCEDURE

- 6.1 This tender is strictly a **Two Bid Tender** i.e. Technical Bid and Price Bid. **Both the bids are to be submitted through GeM portal. No other mode of submission will be acceptable.**
- 6.2 The close / due date for submission of bids may be extended at any time, including after the scheduled date of closing, at the sole discretion of AIESL.
- 6.3 Amendments or extension of the close / due date, if any, to this tender will be informed via GeM portal
- 6.4 In their own interest, bidders are advised to submit bids, well before the close date / time of tender in order to avoid any last moment glitches. AIESL may not entertain any request for extension of close date and time and reserves the right to accept or reject any such request at its sole discretion.
- 6.5 The bidder or their authorized representatives (maximum two) would only be permitted to attend the pre-bid meeting, if any.

### 5.0 Submission of BIDS:

#### 5.1 Technical Bid:

- 5.1.1 Bidders are advised to study carefully, the Terms & conditions as given in this tender document and submit their **technical bid** accordingly.
- 5.1.2 Bidders are required to download all the documents. Wherever applicable the documents are to be duly filled-in with the required details. The filled-in documents along with supporting documents, if any, need to be uploaded on GeM portal for technical evaluation purpose. **Uploading of required Documents is mandatory. The documents should not mention any rates / prices. else bidder will be disqualified during technical evaluation.**
- 5.1.3 Bidders are **required to give their acceptance of the terms and conditions as per Documents.** Any deviation from the terms and conditions, must be clearly spelt out in the Technical Bid.
- 5.1.4 Any other deviation in the specifications or tender's terms and conditions must be communicated to the concerned buyer / user for acceptance of the same, prior to submission of the bid depending on the merit of the case. AIESL reserves the right to accept or reject the deviation. In case, the deviation is accepted, the tender document will be amended accordingly. The bidder should submit their bid in line with the tender document only or else the same would be liable for rejection.
- 5.1.5 AIESL reserves the right to change this date of opening at its own discretion.
- 5.1.6 **All the supporting documents, as specified in the tender document that are required for compliance of bid must be submitted with the technical bid.**
- 5.1.7 AIESL reserves the right to call for the original copies of the attached / submitted documents in the technical bid for verification purpose during the evaluation stage. The Technical Bids would be evaluated for compliance in accordance with the tender document. The User Department of AIESL reserves the right at its sole discretion to seek clarification for shortcomings in information/documents from the bidders as deemed necessary for the purpose of evaluation of the bids.

#### 6.0 For any clarification, please contact the following official.

- 1) **Mr. Khalid Sabri**, Sr. Asst. Gen. Manager, MMD, AIESL, Tel: **26263802**, email: [khalid.sabri@aiesl.in](mailto:khalid.sabri@aiesl.in)
- 2) **Mr. Deepak Kumar Kalwania**, Deputy Engineer-SS, [deepak.kalwania@aiesl.in](mailto:deepak.kalwania@aiesl.in), Ph: 022 26263725

The Price Bids of only those bidders who are technically qualified would be considered for the next stage.

*Deepak Kumar*

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## 7.0 Price Bid:

- 7.1.1 Bidders are required to **quote for the entire tendered quantity.**
- 7.1.2 AIESL will not accept inclusion of any additional costs, if requested for, after closing of the tender.
- 7.1.3 Submission of incorrect or incomplete information or with arithmetical errors in compilation of the data would be at the bidder's sole risk. The decision of AIESL in such cases would be final and binding.

## 8.0 Validity of Quotation, Prices, Govt. Taxes / GST

- 8.1 The price offered / agreed should remain firm till completion of the contract.
- 8.2 No request for increase in price shall be entertained during this period except on account of increase in GST or any other Government levy, if imposed by the Govt. of India. Proof of payment for such increase is to be submitted to AIESL by the successful Bidder.
- 8.3 The Bidders should commit to pass on the benefit to AIESL of reduction in statutory taxes, etc. by the Government, during the period of validity of the Contract.
- 8.4 During the contract period, if for any reason there is a downward revision in prices, the successful bidder will be responsible for passing on the benefits to AIESL.
- 8.5 Increase in Govt. Taxes / GST etc. or any new levies, if imposed by the Govt. of India / State Govt. / Local Bodies, during the contract period will be borne by AIESL, if requested for, by the Successful Bidder/s. However, such request will be considered only if it is substantiated with copies of valid documentary proof of the same and **only if the bidder/s has quoted their rate giving the break-up of Govt. Taxes / GST in their price bid.**

## 9.0 QUANTITY, LEAD TIME & DELIVERY SCHEDULE:

- 9.1 AI Engineering Services Limited has the right to reduce / increase the quantity of equipment/item without any increase in unit price. During the course of tender and warranty / extended warranty period, based on the future requirement the unit location may change.
- 9.2 The successful tenderer shall at its own cost and expense supply the Equipment and perform the Installation work:
  - 1) in accordance with the Specifications;
  - 2) in accordance with the Delivery Schedule;
  - 3) in accordance with the best industry practice, diligently, efficiently, in a timely manner with reasonable care and skill to be expected of a reputable supplier experienced in the type of work to be carried out under the tender.
- 9.3 The successful tenderer shall provide AIESL with a List of Spare Parts/Components required for monthly, half-yearly and yearly preventive maintenance and recommend spare parts/components price list as well as its local agents in India.
- 9.4 Commissioning of equipment will be done at AI Engineering Services Limited, Old Airport, Santacruz (E), Mumbai 400029.
- 9.5 **Documentation:** All relevant documents required for supplying / shipping the item should accompany the supplies.
- 9.6 Lead Time if any, with reference to the Delivery Schedule as specified in the tender document is to be adhered to, by the bidders.
- 9.7 The unit to be delivered within or up to 10 weeks from the date of receipt of PO. Any minor / nominal changes will have to be agreed to. In case of any major deviation, the same will be rescheduled on mutually agreed terms.

*Deep Kumar*

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9.8 Delivery Location: AI Engineering Services Limited, Old Airport, Kalina, Santacruz( E), Mumbai-400029.

## 10.0 AMENDMENTS / EXTENSIONS:

- 10.1 AIESL reserves the right to, amend any part / terms and conditions of the tender / extend the due date at its sole discretion.
- 10.2 Amendments and clarifications, if any, to this tender will be hosted on the GeM Portal & NIT will be published on website of AI ENGINEERING SERVICES LIMITED. AIESL will not intimate the tenderers individually of the same. The tenderers are, therefore, advised to visit GeM portal / AIESL website regularly till the date of closing of the tender. The last amendment, if any, will be hosted a minimum of seven days before the closing date of the tender. For tender clarifications please contact.
- 1) Mr. Deepak Kumar Kalawania, [deepak.kalwania@aiesl.in](mailto:deepak.kalwania@aiesl.in), Ph: 022 26263725
- 2) Khalid Sabri, [khalid.sabri@aiesl.in](mailto:khalid.sabri@aiesl.in), Ph: 022 26263802
- 10.3 Amendments, corrigendum, if any, and any extensions of the due date of opening of the Bids, as per the requirements of AIESL, will be uploaded in GeM.

## 11.0 REJECTION OF BIDS: The submitted Bid will be rejected on the following grounds:

- 11.1 Tenders received without required information and relevant documents as per the eligibility criteria, are liable to be rejected. However, AIESL reserves the right at its sole discretion to seek whatever information, documents etc. from the bidders as it may consider necessary for the purpose of the technical evaluation.
- 11.2 In case of any variation, in the documents / data declaration submitted by the Bidder in support of the Technical Bid with the original documents, the Bids of such Bidder would be out-rightly rejected and would be disqualified during Technical Bid evaluation of Tender.
- 11.3 Conditional Bids are liable for rejection. Decision of AIESL in such case shall be final and binding.

## 12.0 Benefits / Preference for Micro & Small Enterprises (MSEs): As per GeM policies.

## 4.0 Earnest Money Deposit (EMD)/Bid Security:

Earnest Money Deposit of Rs. 1,20,000/- (One Lakh twenty thousand only) must be submitted by means of Cheque/DD/NEFT in favour of AI ENGINEERING SERVICES LIMITED, Account No. – 00600310007523, IFSC Code – HDFC 0000060) payable at Mumbai.

### Exemption of EMD:

The bidders seeking EMD exemption must submit the valid supporting documents for the relevant category with the Bid.

- Micro and Small Enterprises whose credentials are validated online through Udyog Aadhaar.
- Startups as recognized by Department of Industrial Policy and Promotion (DIPP).
- Sellers who have got their credentials verified through the process of Vendor assessment by vendor Assessment Agencies for the particular product for which e-Bid/RA has been invited.
- OEMs having annual turnover of Rs. 500 Cores and above and having profit in last three years out of five years.
- MSEs/MII units registered with the NSIC under its single point registration Scheme/Public Sector Registered with Udyog Aadhar Memorandum(UAM).

*Deepak Kumar*

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## 5.0 Security Deposit / Performance Bank Guarantee:

- 5.1 The Bidder/s who qualifies for award of Contract will have to deposit with AIESL 5 % (Five percent) of the total value of the Contract, as Security Deposit (SD) within 2 weeks of receipt of the Contract. This SD will be free of interest. In case, the SD is not deposited in time, the bills shall not be processed for payment till the SD is paid.
- 5.2 The Applicable Security Deposit / Performance Bank Guarantee must be submitted by means of Cheque/DD/NEFT in favour of AI ENGINEERING SERVICES LIMITED, Account No. – 00600310007523, IFSC Code – HDFC 0000060), payable at MUMBAI.
- 5.3 The SD is applicable to all bidders including MSME's.
- 5.4 In case of submission of Security Deposit/Performance guarantee is to be paid by way of Account Payee Demand Draft, banker's Cheque, ECS, Bank Guarantee issued from any Commercial Bank, Fixed Deposit Receipt from any Commercial Bank for an equivalent amount in favour of AI Engineering Services Limited and payable at Mumbai.
- 5.5 It may please be noted that the original BG has to be forwarded by the Bank directly to AIESL through registered AD as per the detailed procedure which will be advised to the successful bidder. The expenses incurred towards submission of Security Deposit / Bank Guarantee will have to be borne by the successful bidder/s.
- 5.6 In case of breach of Contract or violation of any terms of the Contract the Security Deposit shall be forfeited / bank guarantee be invoked.
- 5.7 Security Deposit / Bank Guarantee is to be furnished on non-judicial stamp paper of value not less than Rs. 100/- (Rupees One hundred only) and in the prescribed format, which will be provided to the successful bidder/s.
- 5.8 The Security Deposit / Bank Guarantee will be refunded / returned without interest within 60 days of successful completion of services against the Contract after adjusting for penalties, if any, that may be imposed under the terms of the Contract.
- 5.9 Validity of the BG would be for an additional period of 60 days after the scheduled completion of all obligations under the Contract.

## 13.0 EVALUATION CRITERIA:

### 13.1 Technical Bids :

- 13.1.1 The Technical Bids would be first evaluated for compliance. AIESL reserves the right at its sole discretion to seek whatever information, documents etc. from the bidder as it may consider necessary for the purpose of evaluation of the bids.

### 13.2 Price Bids:

- 13.2.1 The Price Bids of only those bidders who qualify as per the requirements of Technical Bid would be opened.

## 14.0 Inspection Clause:

- 14.1 Inspection of bidders' facilities at the time of evaluation of the Technical Bids: AIESL reserves the right to inspect at its cost the production facility / facilities of the bidders in order to assess their infrastructure and capability to produce and deliver in accordance with the delivery schedule as indicated in this tender. The decision of AIESL in such case shall be final and binding.

*Devala Kumar*



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- 14.2 Inspection of the facility of the bidder who has been awarded the Contract / Purchase Order: AIESL further reserves the right to inspect the production facility of the bidder, who has been awarded the Contract / Purchase Order, in order to confirm consistency of quality of the items as produced for AIESL.
- 14.3 Pre-Delivery Inspection: will be carried out by AIESL representatives at manufacturer's premises. Local facilities for inspection and testing of equipment are to be arranged by manufacturer. Inspection, testing as per manufacturers specification including full load test & tests to ensure that the units meet all technical parameters shall be carried out at manufacturers works before dispatch of unit.
- 14.4 Quality inspection and Rejection after release of contract / Purchase Order: Every supply should be accompanied with a Quality Assurance Certificate (QAC) indicating that the goods so supplied are in conformity with the specifications given in the Purchase Order. Supplies not meeting the specification / parameter / quality and or deficient in any other respect would also be liable for rejection at the time of inspection. If supplies are found to be defective, short supply or not conforming to the specifications / requirements, it may result in rejection without any liability on AIESL and necessary rectification will have to be made IMMEDIATELY and FREE OF COST in order to sustain the operations of AIESL. Penalty would be applicable as stated in Penalty Clause.
- 14.5 Tags: Successful bidder/s should affix non removable tags bearing our tag numbers on the equipment as property of "AIESL", serial No, P.O. number and date.

## 15.0 Other Terms & Conditions:

### 15.1 Force Majeure:

- 15.1.1 The Bidder / Successful Bidder / AIESL (herein referred to as Party / Parties) shall not be liable for, nor be in default by reason of any failure or delay in discharge of its obligations under this Tender / Contract, where such failure or delay is caused by any act, including but not limited to any act of God, action or inaction of government authorities, fire, flood, gales, storm, lightning, earthquake, explosions or other catastrophes, accidents, weather, power failure or shortage of power, riot, war (declared or undeclared), warlike operations, act of terrorism, boycott, embargo, rebellions, sabotage, epidemics, quarantines, lock out, restrictions on travel based on travel advisories of any governmental entity, unavailability of the usual means of transportation, hostilities, revolution, civil commotion or public disorder or any other cause beyond its control.
- 15.1.2 The Party encountering and affected by such causes and event shall inform the other in writing immediately of such an occurrence event and shall use its best reasonable efforts to minimize the economic and other effects and rectify as soon as possible any harm or delay created thereby shall reasonably allocate its available resources, giving priority to their obligations under this Contract.
- 15.1.3 For the avoidance of any doubt it is clarified that, payment obligations of AIESL shall be excused due to an event of Force Majeure.

15.2 **Interpretation:** In the event of any difference in the interpretation of any of the clauses of the Contract / Purchase Order / Agreement and / or the Tender documents, the clarification given by General Manager (SS), AIESL shall be final and binding.

15.3 **Arbitration:** Any dispute arising between the parties in respect of the construction, interpretation, application, meaning, scope, operation or effect of this document or the validity or breach thereof, shall first be resolved amicably by mutual consultation. If an amicable settlement is not forthcoming and dispute is not resolved within 21(Twenty One) days, from the date when mutual consultation started, recourse may be taken to settlement of disputes through arbitration as per the Arbitration and Conciliation Act 1996, and the award made in pursuance thereof shall be binding on the parties.

15.4 **Jurisdiction:** Any dispute, whatsoever, shall be subjected to the jurisdiction of the courts of Mumbai only.

*Deepti Karmar*

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## 6.0 Quality inspection and Rejection after release of contract / Purchase Order:

QUALITY ASSURANCE – Wherever applicable, successful bidder/s should ensure that Quality of the material is as per specifications. Not meeting the specification / parameter / quality and or deficient in any other respect would cause rejection at the time of inspection and material will be returned to the vendor at their cost.

Date:  
Place:

Bidder Signature:  
Name & Designation:  
Company Name & Seal:

*Deepti Karmar*

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## Scope of work and Technical Specification

### Item Description, Quantity and Detail Specification

#### A) Product Details and Quantities:

S. No.	Nomenclature	Quantity
1	Supply, installation, testing and commissioning of Portable, Solid State, 120 KVA (UPF), 400 Hz, Static Frequency Converter with associated copper cable and NATO connector (female)	02 (Two) Nos.

#### B) Technical Specifications:

1. Standards: ISO 6858 - Aircraft ground support electrical supplies - General requirements.

#### 2. Electrical Specifications:

2.1. Mains ON / OFF MCCB;

2.2. Input Voltage: 415 V, - 15 %, + 10 %, 3 Ph, 50 Hz, + 6 %

#### 2.3. Output Rating

(i) Power 120 KVA at UPF

(ii) Voltage 3 x 200/115V (200 V Phase to Phase; 115 V Phase to. Neutral) tolerance

(iii) Power Factor Unity power factor

(iv) Voltage Regulation < 0.5 % for balanced load

< 1 % for 30% unbalanced load

(v) Voltage Drift < 0.5 %

(vi) Distortion Total Harmonic Distortion less than 3 %

(vii) Load Crest Factor 1.414 ± 3%

(viii) Output Phase Shift 120 ° +/- 1.50

(ix) Frequency 400 Hz ± 0.1%

(x) Overload 20% for 600 seconds

50% for 30 seconds

*Deepa Kumar*

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70% for 5 seconds

100% for 1seconds

(xi) Cooling Forced Cooling (Cooling fans)

## 2.4. Protections

(i). Input Over / Under Voltage

(ii). Internal high temperature

(iii). Internal voltage error

(iv). Output Under / Over Voltage

(v). Overload at output

(vi). Short circuit at output

(vii). Input Phase fail / reversal

**Note:** Static Frequency Converter must be able to handle below mentioned In-rush Current Levels-

1. Instantaneous – 500 – 1100 Amps within 10 milliseconds
2. Average; 730 Amps over a 130 milliseconds.

## 2.5. Indications

(i). Output Under / Over Voltage

(ii). Output Overload / Short Circuit

(iii). Input Over / Under Voltage

(iv). Input Phase fail / reversal

(vi). Over Temperature

## 2.6. Operating Controls

(i). Mains ON / OFF MCCB;

(ii). Load ON OFF Push Button for output

(iii). Test Mode (Bypass Mode) / Aircraft Mode selector switch for output.

(iv). EMERGENCY STOP PUSH BUTTON ON THE UNIT (IN RED)

*R. D. Kulkarni*

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2.7. System Indicator

a. Mains R, Y, B - LED

b. Output U, V, W - LED

c. Load - LED

### Indicating Meter

A. Output Voltmeter (Digital)

B. Output Ammeter (Digital)

C. Output Frequency meter (Digital)

### 3. Environmental

Operating Temperature 0 °C to 55 °C

Relative humidity 10-95%

Noise level < 70Db at 1m.

Standard protection IP 56 Dust proof

### 4. Execution

Note: GPU Enclosure to be suitable for installation in Aircraft Hangars / Apron area, for directly feeding to Aircraft.

The system must be housed in MS Sheet Steel cabinet with IP 56 protection and shall be powder coated in Siemens Grey shade. The cabinet shall be an upright, free standing, steel cabinet with removable side covers for easy maintenance. Static Converter may be mounted on wheel to move internally on requirement

The cooling fans shall be provided on the side and hinge mounting front and back door.

The construction and layout must be kept in such a way that there is an easy access to any component in the equipment. AC Filter Chokes & transformers are mounted on the bottom plate of the cabinet.

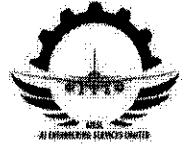
The terminals for Mains Input (415 V, 3 Phase 4 wire) & Output (200 V phase to phase, 3 Phase, 4 wires) are provided on the interior side of the cabinet. Cable entry shall be provided from at the bottom side of the cabinet.

### 5. Special Features

(a). The GPU unit shall be fully electronic solid state & Modular type for easy maintenance & replacement of spares.

*Dispute June*

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(b). the phase generation must be by digital circuitry to ensure exact phase difference between output phases.

(c). Active Cable Voltage Drop Compensator for cable length of 30 meters to maintain the voltage at aircraft end within the permissible limits

(d). DC supply to provide interlock signal to output contactor in Test /Bypass Mode for each output.

(e). The SFC Must be mounted on a trolley with wheels suitable for towing to other hangars.

6. **Warranty:** 2 years from the date of Supply and commissioning.

7. **Experience:** Min. 3 years of experience in supply of 400 Hz Aircraft ground power supply units of 90 KVA or more rating in Aviation Industry. (Proof of experience must be attached for technical qualification)

7. 400Hz Aircraft ground power cable:

AC rubberized flexible copper cable

Cable size: 4x1, 70 sq MM for A, B, C, D Pins and 2.5 sq mm 2 Core for E&F Terminal

Voltage Rating: 600VAC for output voltage of 115V (P-N)/200V (P-P) 400Hz

**Length- 15 Meters (For each GPU Unit)**

8. NATO CONNECTOR (FEMALE CONNECTOR)

NATO CONNECTOR (FEMALE CONNECTOR) Suitable for 120 KVA UPF ground power supply

Quantity: 01 (For each GPU Unit)

**NOTE:**

i. **QAC is required with supply.**

**Note:**

- i) Please quote your offer only for the specifications as given above. Alternate offer which does not adhere to the above specifications will not be considered for evaluation and will be rejected.
- ii) Bidders cannot go back on their commitment on the above Technical specifications after opening of the bids. Therefore, bidders **MUST** get any doubt well cleared before submission of the Bids.

**Date:**

**Place:**

**Bidder Signature:**

**Name & Designation:**

**Company Name & Seal:**

*Refer. Form*

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## PRE-QUALIFICATION CRITERIA - COMPLIANCE STATEMENT

Bidders who fulfil the following eligibility criteria, requirements, and submit documentary proof thereof along with the Technical Bid, will only be eligible for evaluation of the technical bids. Bidders are required to indicate the compliance status for each of eligibility criteria by stating Yes or No. The documentary evidences as required be attached with this Annexure duly page numbered in sequence of the criteria. "NO" to any one of the criteria will result in disqualification of the bid as these are mandatory eligibility criteria.

Sr. No.	Eligibility Criteria	Compliance (Yes / No)	Remarks
1	<p>The Bidder must be OEM of the equipment / authorized dealer of the OEM with proven record of supply of such units with min capacity of 90 KVA to Airlines / MROs and above at least last three years i.e. on or before 31<sup>st</sup> March, 2024.</p> <p>Supporting document in form of purchase order or commissioning report along with performance certificate to be submitted.</p> <p>Should have supplied to minimum three different orders.</p>		
2	<p>The bidder must have successfully completed similar supply and installation of <b>Portable, Solid State, 120 KVA (UPF), 400 Hz, Static Frequency Converter over the last three years i.e. the current financial year and the last three financial years:-</b></p> <ul style="list-style-type: none"><li>• Three similar completed service costing not less than amount equal to 40% (forty percent) of the estimated cost. <b>or</b></li><li>• Two similar completed services costing not less than the amount equal to 50% (fifty percent) of the estimated cost. <b>or</b></li><li>• One similar completed services costing not less than the amount equal to 80% (eighty percent) of the estimated cost.</li></ul> <p>Supporting document in form of purchase order or commissioning report along with performance certificate to be submitted.</p> <p>Should have supplied to minimum three different orders.</p>		
3	<p>Should be a Firm (Proprietorship or Partnership / Company / Registered Society etc.) and should be a Reputed Manufacturer/Reputed Marketer for the last 5 years. Self-attested copy(s) of proof of above like Current Shop &amp; Establishment License with the name of the owner, date of registration of the Firm / Company / Organisation, complete address, nature of business / items being traded, copies of Purchase Order(s) / Contracts) issued by any customer or any other valid document as a proof of above should be enclosed.</p>		
4	<p>EMD to be submitted along with Technical Bid.</p>		

*[Handwritten signature]*  
*Datta Kumar*

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5	Minimum Average Annual turnover of the tenderer for the for at least last three financial years should be Rs.18 Lacs or above. Copies of Certified Financial Statement for above mentioned period to be submitted. Proforma statement is not acceptable.		
6	Possession of PAN number is a must at the time of application of the tender. Self-attested copy of PAN Number should be enclosed. Additionally, self-attested copy of Income Tax Return of preceding 02 Financial years should also be enclosed.		
7	The bidder must possess GST Registration Number at the time of application of the tender. Self-attested copy of GST Reg. Number should be enclosed. In case, the bidder does not possess the GST Registration Number, they need to give an undertaking that they will apply for and obtain the GST Registration Number, if the subject contract is placed on them by AIESL.		
8	Bidder should have not been black listed by any of Governments Authority or public Sector Undertaking (PSUs) in the last three years. <b>The bidder shall give an undertaking (on their letter head)</b> that they have not been black listed by any of the Government Authority or PSUs for last 03 years.		
9	Besides the above eligibility criteria, a team of AIESL Officials may also visit the Factory premises / production facility of the bidder to assess their infrastructure and capability as per AIESL's request.		

*[Handwritten Signature]*

Date:  
Place:

Bidder Signature:  
Name & Designation:  
Company Name & Seal:



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## ❖ Payment Terms:

- No request for advance / pre-payment will be entertained.
- Duly certified invoices to be submitted to Invoicing section along with Proof of Delivery (POD).
- Payment will be made as per terms governed by GeM.
- 100 % payment will be made within 30 days after successful supply, Installation and Quality control at AIESL, Mumbai.
- Payment will be made through respective Regional Offices of AIESL, where delivery is made, preferably through ECS (Electronic Clearance Service) mode for all undisputed amounts. Cheque will be issued only in the absence of ECS. (Successful bidders will have to provide the Bank details and a photo copy of a cancelled cheque for our reference and records).
- The below format for Bank details for reference and record are to be provided by all Bidders including the Successful Bidder for the ECS mode of transfer:

Account Name	
Name of the Bank	
Branch Name	
Account Number	
Bank Code / MICR No.	
IFSC Code	

- TDS shall be deducted by AIESL from payment made against these invoices, as per the applicable laws.

*Receipt Number*

**Date:**  
**Place:**

**Bidder Signature:**  
**Name & Designation:**  
**Company Name & Seal:**

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## Price Bid

(Bidders are required to submit their rates in this format only otherwise the bid shall be rejected)

## Bill of Quantities

The proposal received from the bidder who does not comply with any of the specifications / requirements as mentioned below will be rejected.

**Supply, installation, testing and commissioning of Portable, Solid State, 120 KVA (UPF), 400 Hz, Static Frequency Converter with associated copper cable and NATO connector (female)**

S. No.	Item Name (s)	Qty	Rate	Total Amount (INR)
1.	Supply, installation, testing and commissioning of Portable, Solid State, 120 KVA (UPF), 400 Hz, Static Frequency Converter with associated copper cable and NATO connector (female)	2		
			Amount(A)	
			ADD GST(B)	
			<b>GRAND TOTAL including GST (A + B)</b>	

Date:  
Place:

Bidder Signature:  
Name & Designation:  
Company Name & Seal:

*Deepak Kumar*