



**एआइ एअरपोर्ट सर्विसेज**  
**AI AIRPORT SERVICES**

Note: Bidder Must Comply to the Government of India notifications vide “ORDER (PUBLIC PROCUREMENT No. 4) OF DATED 23<sup>rd</sup> FEB 2023 which says about procurement conditions “Bidder From Country Which Shares A Land Boarder With India”. Document could be refered vide given hyperlink. Pls specify required data as below;

[https://drive.google.com/file/d/1urUfptfq10aaqu1l\\_E1ixfgecmGHhAaS/view?usp=sharing](https://drive.google.com/file/d/1urUfptfq10aaqu1l_E1ixfgecmGHhAaS/view?usp=sharing)

- **BIDDER PLACE OF BUSINESS .....**
- **GOODS MANUFACTURING COUNTRY .....**
- **GOODS PARTS SOURCING COUNTRY.....**

## **TENDER DOCUMENT**

### **FOR THE SUPPLY**

### **OF**

### **GROUND POWER UNIT 90 KVA WITH 28.5 VOLT DC TR UNIT.**

### **[ GROUND POWER UNIT –TOWABLE]**

**Tender Doc No: AIASL/CB-14/23-24**



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**AI AIRPORT SERVICES**

**SCHEDULE OF TENDER**

<b>Tender Number</b>	<b>AIASL/CB-14/23-24</b>
<b>SCOPE OF WORK</b>	SUPPLY OF GROUND POWER UNIT TOWABLE
<b>TENDER ISSUER</b>	AI AIRPORT SERVICE LIMITED
<b>DATE OF ISSUE OF TENDER DOCUMENT</b>	30th March 2024
<b>LAST DATE OF SUBMISSION OF BIDS</b>	20th April 2024 on or before 1400 Hrs
<b>DATE OF OPENING OF TECHNICAL BIDS</b>	22 <sup>nd</sup> April 2024 at 1400 Hrs
<b>PLACE OF SUBMISSION &amp; OPENING OF BIDS</b>	AI AIRPORT SERVICES LIMITED, 2 <sup>nd</sup> FLOOR HQ, AIR INDIA GSD COMPLEX, IGI AIRPORT, NEAR TERMINAL II, NEW DELHI 110037
<b>DATE OF PRICE BID OPENING</b>	WILL BE COMMUNICATED TO SUCCESSFUL TECHNICAL BIDDERS ONLY



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**ABBREVIATION**

Abbreviation	Description
AIASL	AI Airport Services Limited
A320/A330/A340/A350	AirBus Aircraft
B737/B767/B777/B787	Boeing Aircraft
ATR	ATR Aircraft
CRJ	CRJ Aircraft
GSE	Ground Support Equipment
NEFT	National Electronic Fund Transfer
RTGS	Real Time Gross Settlement
SD	Security Deposit
EMD	Earnest Money Deposit
MSME	Micro, Medium & Small Enterprises
CIF	Cost, Insurance & freight
GST	Goods & Service Tax
PDI	Pre Delivery Inspection
PAN	Permanent Account Number in Indian Taxation
LLP	Limited Liability Partnership
PQC	Pre Quality Check
FOR/FOT	Freight on Rail Freight on Truck
OEM	Original Equipment Manufacturer
TTT	TRAIN THE TRAINER



# एआइएस एअरपोर्ट सर्विसेज AI AIRPORT SERVICES

## 1. TENDER NOTICE

AI Airport Services Ltd (herein after referred to as “AI ASL”) providing Ground handling Services at more than 80 Airports across the India, invites **Sealed / Closed Tenders from the Ground Support Equipment Manufacturers OR Their Authorized Partner OR Ground Support Equipment Suppliers** for the product item **SUPPLY OF GROUNDPOWER UNIT 90 KVA WITH 28.5 VOLT DC TR UNIT. QTY-18** as per following Annexures

- **Technical Specifications** - **Annexure – A**
- **Price Bid** - **Annexure – B**

Sealed tenders are to be submitted in a two-bid system (**Technical Bid and Price Bid separately**) as per the following details:

### 1.1. Technical Bid (COVER – I)

To be super scribed with “**Technical Bid**” for the **Tender Reference: “AIASL/CB-14/23-24 due on: 20th April 2024** and must contain the following;

Tenderer’s response to tender Terms & Conditions, Pre-Qualification Criteria and Annexure – A (Technical Specification compliance).

### 1.2. Price Bid (COVER – II)

To be super scribed with “**Price Bid**” for **Tender Reference: “AIASL/CB-14/23-24 due on: 20th April 2024** and must contain the following;

The rates along with the complete details of applicable taxes and any other charges as per Annexure– B

The rates should be written in figures as well as in words. [In case there is mismatch in rates quoted in figures and words, the amount in words shall prevail]



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### **2. TENDER SUBMISSION:-**

The two sealed envelopes i.e. **one Technical Bid (Cover I) and one Price Bid (Cover II)** should be further put in a Master Envelope super scribed with **“Tender Reference: AIASL/CB-14/23-24 For SUPPLY OF GROUND POWER UNIT 90 KVA WITH 28.5 VOLT DC TR UNIT QTY-18 having due date on 20th April 2024.**

The above should be submitted at the following address by 1400 hrs (IST) on or before 20th April 2024.

**AI AIRPORT SERVICES LTD.  
2<sup>nd</sup> FLOOR, AIR INDIA GSD COMPLEX,  
AIASL HQ 2<sup>nd</sup> FLOOR,  
IGI AIRPORT, NEAR TERMINAL II,  
NEW DELHI 110037.**

### **3. DEFINITIONS**

- 3.1.** In this contract, the following terms shall be interpreted as indicated. "Contract" means the agreement entered into between the Purchaser and the Contractor, as recorded in the contract form signed by the parties including all annexure thereto and appendices therein.
- 3.2.** "Goods" or "Items" shall mean all of the equipment including their accessories and / or other materials, which the Tenderer is required to supply to the Purchaser under the contract.
- 3.3.** "Purchaser" or "Buyer" or "Owner" means AIASL, AI Airport Services Limited
- 3.4.** "Tenderer" or "Seller" or "Bidder" means the individual or firm or company, who are manufacturers OR Authorized Partner OR GSE 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.
- 3.5.** "AIASL representative" means the authorized representatives of the Purchaser.
- 3.6.** "Manufacturer" means original equipment manufacturer (OEM). "Vendor" means contractor/supplier to the Bidder.



#### **4. TENDER TERMS AND CONDITIONS**

##### **4.1 SCOPE OF TENDER AND OBLIGATIONS:-**

**(Confirmation on compliance on following points to be submitted with Technical Bid)**

##### **4.1.1 The Tenderer should ensure that:-**

- i) The Tender document should be neatly typed and signed on numbered pages filed in binding folder. **(Comply/Non Comply)**
- ii) Corrections/over writing, if any, should be duly authenticated with full signature of the person who is signing the tender **(initials will not be accepted)**. **(Comply/Non Comply)**
- iii) Attached documentary proof in binding folder should be indexed chronologically, labeled and countersigned. **(Comply/Non Comply)**

**IMPORTANT NOTE: Noncompliance to any of the above shall be liable for tender rejection.**

**4.2** Tenders received late, delivered at different address other than as specified in the tender/ or lost in transit will not be accepted irrespective of whether the delay has arisen on account of the delivery system, i.e. postal, courier etc. except climatic disasters which need to be communicated in advance.

**4.3** Tenders received through fax and / or email will not be considered.

**4.4** Tenders that are incomplete are liable to be rejected.

**4.5** On the date of opening of the tender, the “PRICE BIDS” would be kept in the custody of AI Airport Services Ltd in sealed condition as received from tenderer. Representatives of the bidder can attend the bid openings.

**4.6** The Price bids of only those tenderers, who qualify in the Technical Bid evaluation, would be opened at a later date which will be intimated to technically qualified bidders, in advance.



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- 4.7** In case any indication of price is included in the Technical bid, the Bid will be rejected without any reference to the tenderer. **No correspondence will be entertained in this regard.**
- 4.8** Validity of Quotes: The Price quoted should remain valid for acceptance for a minimum period of 150 days from the date of opening of the tender.
- 4.9** AI Airport Services Limited, reserves the right to accept / reject any / all offers without assigning any reasons.
- 4.10** The successful tenderer shall supply and deliver equipment/item to AI Airport Services Limited as per delivery point in the terms of the tender.
- 4.11** The successful tenderer shall at its own cost and expense, supply the Equipment and perform the Work:
- 4.11.1** In accordance with the Specifications;
- 4.11.2** In accordance with the Delivery Schedule;
- 4.11.3** 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.
- 4.12** A List of “Fast Moving Items” to be provided along with Technical/Operational Manual (Soft & Hard copy), QTY 02 for each item quantity. Bill of Material (BoM)/Bill Of Quantity (BoQ) must also be the part of Technical manual.
- 4.13** The successful tenderer shall provide AIASL with a List of Spare Parts/Components required for monthly, half-yearly and yearly under preventive maintenance and recommend spare parts/components price list as well as its local agents in India.
- 4.14** In the event of default, AIASL reserves the right to cancel the order and can claim damages from successful tenderer and also reserve the right to award the contract to another party at the cost and risk of the successful tenderer.
- 4.15** Intention to Quote:  
You are requested to confirm your intention to quote / regret preferably by Email.



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- 4.16** Any modification/alteration of the original Tender by the Bidder shall lead to disqualification.

### **5 COMMERCIAL TERMS**

(Confirmation on compliance on following points to be submitted with Technical Bid)

**5.1.1 Earnest Money Deposit (EMD): Non Compliance on EMD terms will lead to disqualification. (Comply/Non Comply)**

**5.1.2 An Earnest Money Deposit of INR 24,30000/- (₹ Twenty four Lakhs thirty thousand ) OR its equivalent in USD** must be submitted by means of Account Payee Demand draft, Bank Guaranty , Banker's Cheque, NEFT/RTGS in favor of AI AIRPORT SERVICES LIMITED, payable at MUMBAI, and should be submitted along with the Technical Bid(Cover I).  
**(Comply/Non Comply)**

**5.1.3 EMD will not carry any interest. (Comply/Non Comply)**

**5.1.4 EMD** furnished by the unsuccessful bidders will be returned to them free of interest within 30 days of issue of the Purchase Order / conclusion of the contract. EMD of the successful bidder will be refunded without any interest whatsoever, after receipt of Security Deposit or Bank Guarantee in lieu thereof from the bidder and also EMD can be adjusted against SD.

**(Comply/Non Comply)**

**5.2 MSME units** are exempted from submission of EMD. However, this exemption is applicable only if the MSME unit is registered for the goods/services tendered for in India. Valid MSME Registration Certificate is required for exemption.

**5.3 EMD of a bidder** will be forfeited if the bidder withdraws or amends its bid after the due date, impairs or derogates from the tender in any respect, or declines to accept or honour the Purchase Order / contract if awarded in his favor within the Bid validity period. If the successful bidder fails to furnish Security Deposit or Bank Guarantee within the specified period, its EMD is liable to be forfeited

**5.4 Payment terms (Non acceptance by the Bidder on Payment terms will lead to disqualification) :-**



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**5.4.1** 90% payment within 60 days of submission of invoice or receipt of goods, whichever is later and balance 10% after commissioning of the equipment. (Commissioning to be carried out within 07 days from the date of receipt of equipment/items). **(Comply/Non Comply)**

Further, on special request by the successful bidder, payment limiting upto 50% of the PO value could be released against submission of Bank Guarantee (BG) issued by any Indian National Public Sector Bank of value 110% of the requested payment with minimum one year of validity (extendable further in case of delay in delivery) subject to submission of PDI report and goods dispatch proof.

### **5.4.2** Mode Of Payment

Payment will be made through ECS/NEFT/RTGS mode. Kindly provide the following information:

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

### **5.5** Security Deposit(SD)/Performance Bank Guarantee(PBG): **(Non Compliance on SD/PBG terms, as below will lead to disqualification)**

The bidder who qualifies for award of PO will have to deposit with AIASL 5 % of the Purchase Order value towards interest free Security Deposit, within 2 weeks of the receipt of the Purchase Order. Applicable Security Deposit / Performance Bank Guarantee will be in the form of Bank Guarantee/Demand Draft or Bankers Cheque in favor of 'AI AIRPORT SERVICES LIMITED', payable at MUMBAI or through NEFT/RTGS.

In case of submission of Security Deposit/Performance Guarantee by means of Bank Guarantee/Demand Draft or Bankers Cheque, it may be noted that the original BG has to be forwarded by the Bank directly to AI Airport Services Limited through registered AD. The expense incurred towards submission of Security Deposit/Performance Bank Guarantee will have to be borne by the successful bidder. MSME units are also required to deposit SD/PBG.

Validity of SD/PBG would be till the warranty period or extended warranty period plus Two Month and will be returned after the completion of all obligations under the Purchase Order/ Contract without interest.

**(Comply/Non Comply)**



**5.6 Delivery Schedule:**

**(Non-Compliance on Delivery Schedule will lead to disqualification)**

All the ordered quantity to be delivered within 240 Days at Delivery Locations mentioned in Tender/PO from the date of receipt of PO either in single lot or multiple lot/s.  
**(Comply/Non Comply)**

**5.7 Delivery Point/Receipt:**

**(Non-Compliance on Delivery Point/Receipt terms will lead to disqualification)**

Delivery Location of Tendered Item is as below

- 5.7.1 ATQ/NR – QTY04
- 5.7.2 BOM/WR – QTY 04
- 5.7.3 CCU/ER –QTY 06
- 5.7.4 MAA/SR-QTY-04

**(Comply/Non Comply)**

**[NOTE: Foreign Bidders bidding based on CIF at JNPT are exempted from compliance as mentioned in Para & Sub-Para 5.7]**

**5.8 Liquidated Damages / Penalty Clause:**

**(NonCompliance on Penalty clause terms will lead to disqualification)**

For the delayed deliveries a penalty of 0.5% per week or part thereof of the value of the undelivered portion of the goods on ex works price, subject to a maximum of 10% of the value of the undelivered part on ex works price, will be recovered from security deposit or from amount due to Tenderer after due notification to Tenderer. Actual Business loss in terms of revenue due delay deliveries could also be recovered from Security Deposit having supported by valid documents.

AIASL further reserves the right to cancel the Purchase Order on the event of delayed deliveries, and to issue a fresh order to any other source. AIASL will not be liable for any cost, obligations and claims incurred by the tenderer due to the cancellation.



**(Comply/Non Comply)**

**5.8.1** At the time of delivery / acceptance of the item / goods if it is found that the items / goods so delivered is not as per the specification given in the Contract/PO then AI ASL reserves the right to reject the entire lot and get the entire quantity replaced free of cost by the bidder. The standard penalty for delayed supplies @ 0.5% per week or part thereof, subject to maximum of 10% would be applicable from the original delivery schedule.

**(Comply/Non Comply)**

**5.8.2** In case of any complaint on the quality issue at the time of use of the item / goods by AI ASL after acceptance of the delivery then depending on the nature and extent of the deficiency, AI ASL reserves the right to impose an appropriate penalty on the total value of the lot supplied, subject to maximum of 15% on the invoice of the consignment/lot.

**(Comply/Non Comply)**

#### **5.9 Warranty:**

**(Non-Compliance on these terms will lead to disqualification)**

Warranty of 24 months (minimum) from the date of commissioning for all materials/ workmanship defects for the unit as well as for the bought out items.

For any warranty related issue, the Tenderer should respond within 48 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.

**(Comply/Non Comply)**

#### **5.10 Firm Price:**

Price should remain firm till the fulfilment of PO liabilities.

#### **5.11 Variation of Quantities at the Time of Award**

AI ASL reserves the right to increase or decrease Quantity of goods/services by  $\pm 25\%$  from the date of issue of the Tender to the date of release of the Purchase Order/contract without any change in terms and conditions and prices as quoted by the bidders.



#### **5.12 Exit/Termination:**

The Purchase Order (PO) may be terminated under the following circumstances:

In the case of unsatisfactory performance for breach of any of the Tender term, AIASL would issue a notice of 30 days to the Tenderer to rectify the breach and improve the performance failing which AIASL shall be at liberty to terminate this PO by providing 30 days written notice to the Tenderer.

The Bidder shall also be at liberty to terminate this PO by providing to AIASL a 90 days written notice.

#### **5.13 Arbitration:**

Any dispute arising between the parties of the construction, interpretation, application, meaning, operation or effect of this document or the validity or breach thereof, shall first be settled by mutual consultation & mediation by the “Independent External Monitor”(IEM), if dispute remains unresolved after defined period as per “Integrity Pact”(IP) from the date the mutual consultation has started, the matter shall be referred for settlement to ‘SCOPE FORUM OF CONCILIATION AND ARBITRATION’, Govt. Of India, and the award in pursuance thereof, shall be binding on the parties.

#### **5.14 Jurisdiction:**

Any dispute whatsoever shall be subject to the jurisdiction of the courts of Delhi, India.

### **6 TECHNICAL TERMS:**

**(Confirmation on compliance on following points to be submitted with Technical Bid)**

#### **6.1 Quality Assurance Certificate:**

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.

**(Comply/Non Comply)**



**6.2 In house inspection:**

AIASL reserves the right to inspect equipment/item at any stage before accepting. In case, any deviation in quality is found at the time of supply, then the same will be rejected and should be replaced free of cost. **(Comply/Non Comply)**

**6.2.1** Non adherence of this clause may lead to cancellation of P.O and AIASL reserves the right to withhold the invoice for that shipment.

**(Comply/Non Comply)**

**6.3 Tags:**

Successful bidder/s should affix non removable metal tags bearing AI ASL unique tag number, asset number and serial number. **(Comply/Non Comply)**

**6.4 Pre-Delivery Inspection:**

Pre delivery Inspection of equipment/item will be carried out by AIASL representatives at manufacturer's premises. Local facilities for inspection and testing of equipment are to be arranged by manufacturer.

For inspection on site, the transportation and hotel along with any miscellaneous expenses for the AIASL representatives is to be arranged by the manufacturer from the nearest Airport where Air India Flight operates.

**(Comply/Non Comply)**

**6.5 Acceptance/Receipt at earmarked destination:**

In case any deviation in Technical Specifications/PDI report is found at the time of receipt, then the deviation should be rectified free of cost.

**6.6** Major maintenance training program (under TTT) should also be conducted by the bidder along with sufficient training material at manufacturing site for upto 05 AIASL officials for minimum course duration of 03 Days or till module requirement.

For above onsite maintenance training, expenses towards local transportation, food and hotel for the AIASL representatives is to be arranged by the successful bidder. The transportations shall be arranged from/to the nearest Airport where Air India Flight operates.

**(Comply/Non Comply)**



## **7 AWARD DECISION FOR L1**

- 7.1 If only Domestic Bidders participates: The Bidder whose total net price in INR (based on final destination landed cost at AI ASL Mumbai Locations) works out to be the lowest shall be determined as L1 for the order.**
- 7.2 If Only Foreign Bidders participates: The Bidder whose total net price in USD (based on CIF/Landed cost) works out to be the lowest shall be determined as L1 for the order.**
- 7.3 If Both Domestic & Foreign Bidders participate: The comparison of the offers would be done on the basis of FOR/FOT destination/s (as mentioned under para 5.7) basis including all applicable Taxes and Duties. Rates quoted in US Dollar will be converted to Indian Rupee as applicable based on the “Bill currency selling” exchange rate issued by RBI on the date of Tender opening. The Bidder whose net price in INR (based on final destination/s landed cost at AI ASL mentioned Locations) works out to be the lowest shall be determined as L1 for the order.**

**PO shall be released to the lowest Bidder subject to Tender Terms compliance.**

## **8 OTHER TERMS:**

### **8.1 TENDERERS REPRESENTATIONS, CONVENANTS & INDEMNITIES:-**

The tenderer has examined the scope of the Specifications and all other documents, information and requirement of AIASL, and has satisfied itself as to the adequacy thereof for the performance of this Tender. It is the duty of the tenderer to draw to the attention of AIASL any errors, discrepancies or inaccuracies in the Specifications or such other documents which an experienced supplier of the Equipment should reasonably have discovered.

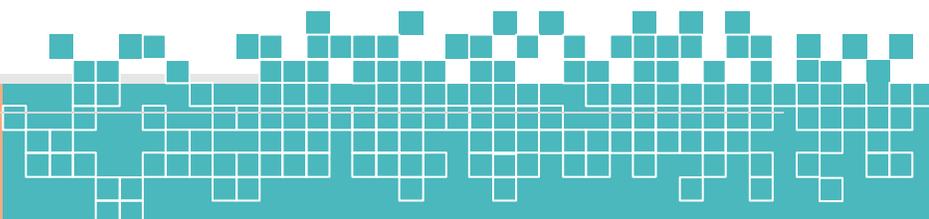
### **8.2 INSURANCE & OTHER OBLIGATIONS:-**

Equipment (Including Insurance & Other Obligations) is the sole responsibility of the successful tenderer until successfully accepted by AIASL.



**9 PRE QUALIFICATION CRITERIA**

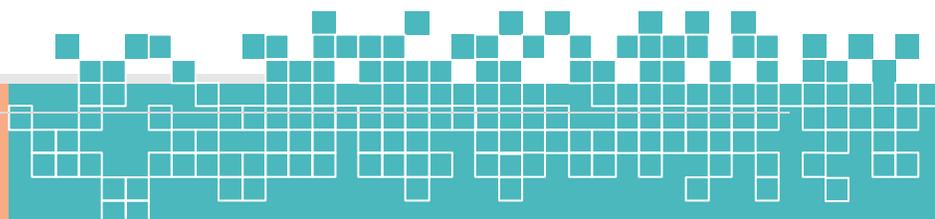
Sr No	Description	Indicate Compliance along with information
1	<p>a) The bidder (jointly OR independently) should have manufactured, supplied and commissioned <b>GROUND POWER UNIT 90KVA and above rating</b> in regular for at least the last FIVE years, ending <b>31<sup>st</sup> Dec 2023</b>.</p> <p>b) The bidder (jointly OR independently) should have manufactured and supplied (commissioned) at least <b>QTY 09 GROUND POWER UNIT 90KVA and above rating</b> in at least one of the last five years ending as on <b>31<sup>st</sup> Dec 2023</b>.</p> <p>c) Documentary proof for at least <b>QTY 04 GROUND POWER UNIT 90KVA and above rating</b> should be in successful operations for at least Two Years on the date of BID opening.</p>	<p>PO, Commissioning Report &amp; Invoice.</p> <p>PO, Commissioning Report &amp; Invoice.</p> <p>Certificates of Satisfactory performance</p>
	<p>Share buyer contact details (officer name &amp; mail-ID) for cross verifications purpose to the documents provided in support.</p> <p style="text-align: center;"><b>OR</b></p> <p>d) Bidders who have supplied/provided <b>GROUND POWER UNIT 90KVA and above rating</b> to AI Airport Services Ltd either through tender or sample and able to produce 02 or more satisfactory reports (not older than 05 Yrs) issued by the AIASL authority holding designation Dy.GM and above is/are exempted from the experience criteria as mentioned vide above sub para a, b &amp; c of para 01.</p>	<p><b>OR</b></p> <p><b>Provide Documents in support.</b></p>





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2	<p>Bidder should be a registered company/firm/LLP/JV in existence during FY 2022-23 or thereafter.</p> <p style="text-align: center;"><b>OR</b></p> <p>Consortium not exceeding three partners. Each partner of the consortium shall be registered Company/firm in existence for at least past five years.</p>	<p>Registration Certificate <b>OR</b> Consortium Agreement date</p>
3	<p>The minimum average annual financial turnover of the bidder(s) (jointly OR independently) during the last three years(FY 2020-21, FY 2021-22, FY 2022-23) ending on 31<sup>st</sup> March 2023 , should be minimum <b>₹4,05,00,000</b> OR equivalent in USD as per the local state annual financial report (audited balance sheet and profit &amp; loss account) of the above period, duly authenticated by a Chartered Accountant OR any authorized body.</p> <p><b>Pro forma statement is not acceptable/Waiver request to be supported by the local government advisory.</b></p>	<p>Turnover- year wise as applicable to the local state per law(Currency to b reflected)</p> <ol style="list-style-type: none"><li>1. FY 2020-21</li><li>2. FY 2021-22</li><li>3. FY 2022-23</li><li>4. Audited Avg for 03 Yrs</li></ol>
4	<p>As on date of submission of the bid, the bidder or its parent company or subsidiary, or a group company should not have been black listed / debarred by AIASL or AIAHL and its subsidiaries (AIESL<sup>1</sup>, Alliance Air, HCI<sup>2</sup>) or any of the State or Central Government of India or Organization of State or Central Government of India.</p> <p><b>An Under taking by the tenderer to be submitted as per Annex I</b></p>	<p>Annexure I to be filled, signed &amp; sealed.</p>
5	<p>PAN No. / GST No. OR similar Tax Registration Certificates/documents for Foreign Bidders</p>	<p>1.PAN 2. GSTNo. <b>OR</b> Corresponding details applicable for Foreign Bidders</p>





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<b>6</b>	EMD to be submitted along with Technical Bid.	EMD Draft no. Date and Bank
<b>7</b>	Certified acknowledgement copy of Income Tax returns for the Last Five Financial Years, duly certified, to be submitted.	Year wise Income Tax payment/returns details. 1. 2. 3. 4. 5.
	Foreign companies must give relevant tax certificates/tax exemption certificate.	OR As applicable for Foreign Bidders

- Documents/Certificates in any other languages than English should be submitted along with English translated version duly authenticated.
- Remarks for complying PQC should be as **“Comply” or “Non Comply” only** with details of information asked. Noncompliance of any of the above clause or remarks like noted, agreed, ok, etc are liable for disqualification in PQC.
- Supporting documents/certificate related to PQC should be labeled, countersigned and attached with PQC.

**10 CLARIFICATIONS:-**

Amendments and clarifications, if any, to this tender will be hosted on the website of AI Airport Services Limited i.e [www.aiasl.in](http://www.aiasl.in) ,AIASL will not intimate the tenderers individually of the same. The tenderers are, therefore, advised to visit the AIASL website regularly till the date of closing of the tender

**10.1 Mr Sanjeev Kumar**

Email ID: [kumar.sanjeev@aiasl.in](mailto:kumar.sanjeev@aiasl.in)

Contact No: +91 11 2560 3335

**10.2 Mr. Yogesh Sharma / Mr. Nilesh Dubey**

Email ID: [cbp@aiasl.in](mailto:cbp@aiasl.in) / [nileshdubey.1988@aiasl.in](mailto:nileshdubey.1988@aiasl.in)

Contact No: +91 11 2560 3306

Mob No:+ 91 9873242872/ +91 8334896990

**10.3 POINT OF CONTACT:-**

Single point of contact to be provided by the bidder along with email ID and telephone number of the contact person for clarification

**11. Integrity Pact:**

Bidder need to submit duly signed & Acceptance of Integrity pact provided vide **Annex III**. Pls provide signed copy.

—————  Comply /  Non Comply)



**एअरपोर्ट सर्विसेज**  
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**ANNEXURE-I**

DECLARATION

(To be given on Company's Letter Head)

Date.....

To

The DyGM- GH,  
Capital Budget & Projects,  
AI Airport Services Limited,  
Air India Complex,  
IGI Airport, Terminal II,  
New Delhi 110037.

**Ref: Tender No. AIASL/CB-14/23-24**

I/We,..... hereby confirm that our Firm/Company /Group/Group Company has never been black listed / debarred by AIAHL/ AIASL/AIESL/AASL or any of the State or Central Government of India or Organization of State or Central Government of India.

Place:

Signature of Tenderer.....

Name.....

Designation.....

Seal/Stamp



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**AI AIRPORT SERVICES**

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**ANNEXURE-II**

DECLARATION

(To be given on Company's Letter Head)

SUPPLY OF SPARES FOR NEXT TEN YEARS

Date.....

To  
The DyGM- GH,  
Capital Budget & Projects,  
AI Airport Services Limited,  
Air India Complex,  
IGI Airport, Terminal II,  
New Delhi 110037.

Ref: Tender No. AIASL/CB-14/23-24

I/We hereby confirm that spares part for the quoted Equipment will be supplied for next ten years (from the date of Receiving/Commissioning) - both vendor items and fabricated parts.

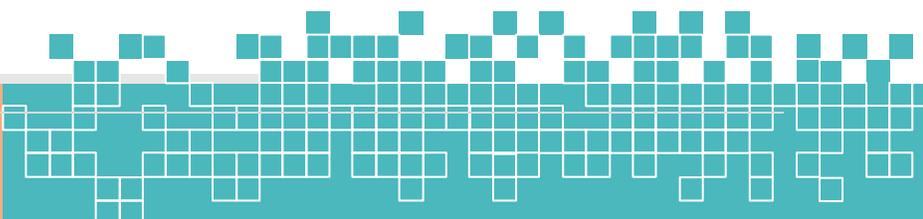
Place:

Signature of Tenderer.....

Name.....

Designation.....

Seal/Stamp





## **Integrity Pact**

**Between**

**AI AIRPORT SERVICES LTD (AIASL) hereinafter referred to as “The Principal”,**

**and**

here-in-after referred to as “**The Bidder/ Contractor**”

### **PREAMBLE**

As per the Central Vigilance Commission order No. 015/VGL/091 dated 14th June 2023 adoption of revised Standard Operating Procedures is In order to ensure transparency, equity and competitiveness in public procurement. The commission recommends adoption and implementation of the concept of integrity pacts by Government organizations.

The pact essentially envisage an agreement between the prospective vendors/bidders and the buyer, committing the persons/officials of both sides, not to resort to any corrupt practice in any aspect /stage of the contract. Only those vendors/bidders, who commit themselves to such a pact with the buyer, would be considered competent to participate in the bidding process. In other words, entering into this pact would be a preliminary qualification. Principal (AIASL) and vendor will also agree with the essential ingredients of the pacts incorporated in the SOP issued by CVC under Commission order No. 015/VGL/091 dated 14th June 2023. Accordingly The Principal intends to award, under laid down organizational procedures, contract(s) for supply of **GROUND POWER UNIT 90KVA**. The Principal values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relations with its Bidder(s) and/or Contractor(s).

In order to achieve these goals, the principal will appoint a panel of IEMs who will examine the process integrity. Complains allege malafide on the part of any officers



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of the organization should be looked into by the CEO of the concerned organization.

### **Section 1 – Commitments of the Principal**

1. The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-

a. No employee of the Principal, personally or through family members will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to. The word 'take' shall also include the past and future.

b. The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

c. The Principal will exclude from the process all known prejudiced persons and persons who would be known to have a connection or nexus with the prospective bidder.

2. If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act or the conduct rules of the Principal, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

3. Integrity Pact, in respect of a particular contract, shall be operative from date IP is signed by both the parties. The IEMs shall examine all the representations/grievances/complaints received by them from the bidders or their authorized representatives related to any discrimination on account of lack of fair play in modes of procurement and bidding systems, tendering method, eligibility



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conditions, bid evaluation criteria, commercial terms & conditions, choice of technology/specifications, implementations etc.

4. For ensuring the desired transparency and objectivity in dealing with the complaints arising out of the process, the matter should be examined by the full panel of IEMs jointly, who would look into the records, conduct an examination, and submit their joint recommendation to the CEO. In case the full panel is not available due to some unavoidable reasons, the available IEM(s) will conduct examination of the complaints. Consent of the IEM(s), who may not be available, shall be taken on record.

5. In the event of any dispute between the management and the contractor relating to those contracts where Integrate pact is applicable, in case, both the parties are agreeable, they may try to settle dispute through mediation before the panel of IEMs in a time bound manner. However, not more than five meetings shall be held for a particular dispute resolution. The fees/expenses on dispute resolution shall be equally shared by both the parties.

6. In case the dispute remains unresolved even after mediation by IEMs, the organization may take action as per terms of contract.

### **Section 2 – Commitments of the Bidder(s)/ contractor(s)**

1. The Bidder(s)/Contractor(s) commit themselves to take all measures necessary to prevent corruption in their dealings with AI AIRPORT SERVICES LTD. He/She commits himself to observe the following principles during his participation in the tender process and during the contract execution.

a. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.



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b. The Bidder(s)/Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

c. The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

d. The Bidder(s)/Contractors(s) of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly the Bidder(s)/Contractors(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further details as mentioned in the “Guidelines on Indian Agents of Foreign Suppliers” shall be disclosed by the Bidder(s)/Contractor(s). Further, as mentioned in the Guidelines all the payments made to the Indian agent/representative have to be in Indian Rupees only.

e. The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he/she has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

f. This integrity pact shall override the confidentiality clause, if any, in the offer submitted by the Contractor/Bidder and in the agreement entered into by the Principal with the Contractor/Bidder.

2. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences or acts outlined above or be an accessory to such offences.



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### **Section 3 - Disqualification from tender process and exclusion from future contracts**

If the Bidder(s)/Contractor(s), before award or during execution has committed a transgression through a violation of Section 2, above or in any other form such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or take action as per the Company Guidelines.

### **Section 4 – Previous transgression**

1. The Bidder declares that no previous transgressions occurred in the last 3 years with any other Company in any country conforming to the corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
2. If the Bidder makes incorrect statement on this subject, he/she can be disqualified from the tender process or action can be taken.

### **Section 5 – Equal treatment of all Bidders/Contractors/Subcontractors**

1. The Bidder(s)/ Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact, and to submit it to the Principal before contract signing.
2. The Principal will enter into agreements with identical conditions as this one with all Bidders, Contractors and Subcontractors.
3. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

### **Section 6 –Criminal charges against violating Bidder(s)/Contractor(s)/ Subcontractor(s)**

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has



## **एआइ एअरपोर्ट सर्विसेज AI AIRPORT SERVICES**

substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

### **Section 7 – Independent External Monitor/Monitors**

1. The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently.
3. The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s)/ Subcontractor(s) with confidentiality.
4. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor.
5. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
6. If the Monitor has reported to the CEO, AI Airport Services Ltd., a substantiated suspicion of an offence under relevant IPC/ PC Act, and the Chairman CEO, AI



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Airport Services Ltd. has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.

7. The word monitor would include both Singular & Plural.

8. Independent External Monitor/s (IEMs) details as below;

**Shri Jagdish Rai Garg,**  
H.No. 1056, Sector 12A,  
Panchkula-134112, Haryana.  
Mob: +91 8008516763  
E-mail: jr.garg@yahoo.com

**Shri Gali Yadaiah**  
H.No.5-2-354, Plot No.92Sp,  
Gayathri Nagar Bank Colony,  
Phase 2,Saheb Nagar Kalan,  
Vanasthalipuram,  
Hyderabad-500070  
Mob: +91 9978406180  
E-mail: yadaiah\_gali@yahoo.com

### **Section 8 – Pact Duration**

This Pact begins when both parties have legally signed it. It expires for the Contractor 3 years after the last payment under the contract, and for all other Bidders 12 months after the contract has been awarded.

If any claim is made/lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged / determined by Board of AI Airport Services Ltd.

### **Section 9 – Other provisions**

1. This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. Mumbai.
2. Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.



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3. If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members and in the case of a Company by an authorized representative.
4. Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
5. Principal as well contractor will ensure that the employee signing IP shall not approach to the Courts while representing the matters to IEMs and he/she will await their decision in the matter.

(For & On behalf of the Principal)

(For&On behalf of Bidder/Contractor)

(Office Seal)

(Office Seal)

Place -----

Place -----

Date -----

Date -----

Witness 1: (Principal)

(Bidder/Contractor)

(Name & Address) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

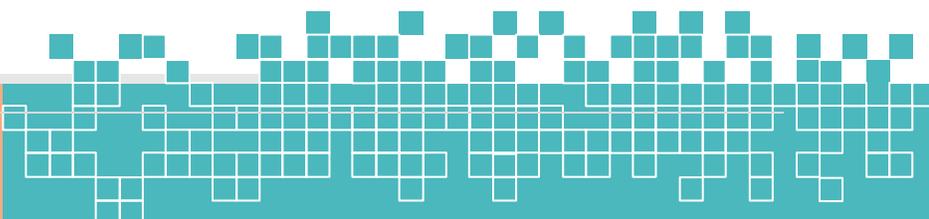
Witness 2:

(Name & Address) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_





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AI AIRPORT SERVICES**

**PRICE BID - ANNEXURE B**

**BID FORM [To Be Submitted as per Guidelines published in para 1]**

To

The DyGM- GH,  
Capital Budget & Projects,  
AI Airport Services Limited,  
Air India Complex,  
IGI Airport, Terminal II,  
New Delhi 110037

**Ref: Tender No AIASL/CB-14/23-24**

Having examined the bidding documents, I/we undersigned, offer to supply and deliver (description of goods and services) in conformity with the said bidding documents as per the prices given in the price bid. We undertake, if our bid is accepted, to commence and complete delivery of all the items in specified delivery period as mentioned in the Tender from the date of receipt of PO.

I/We agree to abide by this bid for a period of 240 days from the date fixed from bid opening in instructions to bidders and it shall remain binding upon us and may be accepted at any time before the expiration of that period. Until a formal purchase order is prepared and executed, this bid, together with your written acceptance thereof, shall constitute a binding contract between us.

Dated \_\_\_\_ day of \_\_\_\_\_ 2024

Seal & Signature of the Bidder



**एआइएस एअरपोर्ट सर्विसेज**  
**AI AIRPORT SERVICES**

**PRICE BID [Applicable to Foreign Bidder]**

To,  
DyGM-GH  
AI Airport Services Limited,  
IGI Airport, Terminal II,  
New Delhi 110037

**For Foreign Bidders [Tender No. AIASL/CB-14/23-24]**

<b>I.</b>	<b>Item Description</b>	
<b>II.</b>	<b>Country of Origin</b>	
<b>III.</b>	<b>Quantity (18)</b>	
<b>IV.</b>	<b>Unit price(Ex-Factory)</b>	
<b>V.</b>	<b>Total price [ III × IV ]</b>	
<b>VI.</b>	<b>Handling Charges</b>	
<b>VII.</b>	<b>Packaging Charges</b>	
<b>VIII.</b>	<b>Insurance Charges</b>	
<b>IX.</b>	<b>Freight Charges at JNPT</b>	
<b>X.</b>	<b>Other Charges(must include TTT &amp; PDI)</b>	
<b>XI.</b>	<b>CIF JNPT -Total [ V+VI+VII+VIII+IX+X]</b>	



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**AI AIRPORT SERVICES**

XII.	CIF at JNPT Total (In words)	
XIII.	Assessable value (CIF Value + Landing Charges = @1% of CIF Value)	To be Filled by AI ASL based on GFR guidelines issued by GOI
XIV.	Custom Duty and other applicable charges ( As per Indian Customs Regulations)	To be Filled by AI ASL As per Indian Customs Regulations
XV.	Applicable IGST on Custom Duty	To be Filled by AI ASL as applicable on Date of Tender Opening
XVI.	Total Custom Duty [ XIII+XIV+XV ]	To be Filled by AI ASL
XVII.	Clearing Agency Charges	To be Filled by AI ASL
XVIII.	Inland freight up to destination(s) and Octroi/Entry Tax or any statutory expenses, as applicable	To be Filled by AI ASL as per estimation/final quotation received
XIX.	Grand Total (FOR/FOT at destination/s) [ XI+XVI+XVII+VIII ]	To be Filled by AI ASL
XX.	Grand Total (FOR/FOT at destination/s) in words: To be Filled by AI ASL	
XXI.	Specify Applicable Custom Tariff Number	
XXII.	Specify Applicable Custom Duty in %	
XXIII.	Item Description	



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Note:

- Rate quoted by foreign tenderers for above items should be in US Dollars only.
- Rates should include all taxes payable to authorities.
- In case of discrepancy between unit price and total price, the unit price shall prevail
- In case of discrepancy between figures and words, the price in words shall prevail.
- Award decision for L1: **As Per Para 7, sub para 7.1, 7.2, 7.3 of the Tender Terms.**
- **For calculation of Custom Duty and other applicable charges it should be inclusive of Basic Customs Duty (BCD), Countervailing Duty (CVD), Additional Customs Duty or Special CVD, Protective Duty, Anti-dumping Duty, Education Cess on Custom Duty, etc as & where applicable as per Indian Customs Act**

For Financial Bid comparisons, rates quoted in US Dollar will be converted to Indian Rupee as applicable based on the “Bill currency selling” exchange rate issued by RBI on the date of Tender opening.

Place:

Signature of Tenderer.....

Name.....

Designation.....

Seal/Stamp



**एआइएस एअरपोर्ट सर्विसेज**  
**AI AIRPORT SERVICES**

**PRICE BID [Applicable to Domestic Bidder]**

To,  
DyGM-GH,  
AI Airport Services Limited,  
IGI Airport, Terminal II,  
New Delhi 110037

**For Domestic Bidders [Tender No. AIASL/CB-14/23-24]**

<b>I</b>	<b>Item Description</b>	
<b>II</b>	<b>State of Origin</b>	
<b>III</b>	<b>Quantity</b>	
<b>IV</b>	<b>Unit Price (Ex-Factory)</b>	
<b>V</b>	<b>Total Base Price [ III×IV ]</b>	
<b>VI</b>	<b>Applicable GST on [ V ] @.....</b>	
<b>VII</b>	<b>Total Base Price inclusive GST [ V+VI ]</b>	
<b>VIII</b>	<b>Inland freight up to destination(s) including Octroi/Entry Tax or any statutory expenses, as applicable</b>	
<b>IX</b>	<b>Miscellaneous Charges, If any (must include TTT &amp; PDI)</b>	
<b>X</b>	<b>Grand Total [ VII+VIII+IX ]</b>	



**एआइ एअरपोर्ट सर्विसेज**  
**AI AIRPORT SERVICES**

XI	Grand Total Price (In words)	
XII	Item Description	

Note:

- Rate quoted by local (Indian Bidders) should be INR only.
- Rates should include all taxes payable to authorities.
- In case of discrepancy between unit price and total price, the unit price shall prevail.
- In case of discrepancy between figures and words, the price in words shall prevail.
- Award decision for L1: **As Per Para 7, sub para 7.1, 7.2, 7.3 of the Tender Terms.**

Place:

Signature of Tenderer.....

Name.....

Designation.....

Seal/Stamp



# एआइ एअरपोर्ट सर्विसेज AI AIRPORT SERVICES

## TECHNICAL & FUNCTIONAL SPECIFICATIONS - ANNEXURE A

### SPECIFICATION FOR GROUND POWER UNIT 90 KVA WITH 28.5 VOLT DC TR UNIT.

SR No	Sub SRNo	Technical & Functional Specification	Comply / Non Comply /Details
1.	<b>Specification is to be read in conjunction with the following documents / Scope, Main Functions &amp; Technical Data</b>		
	1.1	The GPU shall be low noise and suitable for serving A320 family, B737 family ,ATR family, all the other Narrow body Aircrafts. This specification serves as a guideline, and is not exhaustive. Under no circumstances should the Tender hold AI Airport Services Limited responsible for any problem encountered as this specification is given only for the guidance to the tenderer and any error or omission shall not constitute a ground for claim by the tenderer. The onus for investigating and ensuring the actual extent and nature of this specification prior to submission of tender rest solely with the tenderer. Any doubt as to the actual extent or nature of the specification should be clarified with AI Airport Services Limited before the tender is submitted.	
	1.2	(a) Basic Information (Provide Brochure). (b) Contact Person Details Name: E Mail: Mobile No:	
	1.3	Model offered : Deutz Engine – Must Specify Model Overall Dimensions(L x B x H) : Turning Radius(in meters) : GPU Weight :	



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<b>2.</b>	<b>GENERAL</b>	
2.1	The manufacturer to provide list of customers/clients, to whom the Aircraft Ground Power Unit are supplied and their contact details-name, address and E-mail ID and contact number	
2.2	Pre-delivery inspection will be carried out by AI Airport Services Limited representatives at manufacture's premises. Local facilities for inspection and testing of equipment to check specification compliance are to be arranged by manufacturer.	
2.3	AI Airport Services Limited reserves the right to inspect the equipment and reject it, if found defective in workmanship or otherwise, for use and purpose intended or not in compliance with the specifications.	
2.4	These specifications are guidelines. Minute features of the equipment are not included in the scope of the specification. These will be finalized mutually between AI Airport Services Limited and supplier at drawing stage & during the development by the seller. Any deviation in the specification shall be permitted after consent of AI Airport Services Limited.	
2.5	An undertaking as per Annexure II to supply spares for ten years from date of commissioning for both vendor items and fabricated parts.	
2.6	Complete Data Sheet for the Offered Model	
<b>3</b>	<b>STATUTORY REQUIREMENTS</b>	
3.1	The manufacturer of the equipment shall be responsible for its design and structural standards by ensuring that it meets or exceeds IATA(AHM 904-905-910-913 – 915-972 ) of 41 <sup>st</sup> Edition , SAE and other relevant standards where applicable.	
<b>4</b>	<b>GENERAL REQUIREMENTS</b>	



## एआइ एअरपोर्ट सर्विसेज AI AIRPORT SERVICES

4.1	<p>1. Generator – 90KVA, 115/200 V, 400 Hz, 3 PH (AHM-972), four wire (grounded Neutral).</p> <p>2. The rotor of the generator should be mounted on single bearing and above .</p> <p>3. 28.5 Volt DC TR units with ampere rating 800 Amp continuously and 2500 Amp in peak; with current limiter switch</p> <p>4. Trailer mounted with sufficient large fuel tank for minimum eight hours operation with drain plug provided at the lowest point. It shall be well protected with openly visible fuel level gauge.</p>	
4.2	<p>Generator shall meet following Electrical characteristics as per AHM 972, 41<sup>st</sup> edition Table 6.1</p>	
4.3	<p>Weight of generator should be less then or equal to 400kg.</p>	
4.4	<p>Generator rpm should be less then or equal to 1850rpm at full load to ensure fuel efficiency.</p>	
<b>5</b>	<b>STRUCTURE AND OVER ALL DIMENSIONS</b>	
5.1	<p>The Galvanized chassis shall be suitably dimensioned to carry the full weight of ground power unit and associated equipment.</p>	
5.2	<p>The canopy shall be fitted to provide:</p>	
5.2.1	<p>All weather protection for the power source alternator and electrical controls</p>	
5.2.2	<p>Easy access to power source and alternator controls</p>	
5.2.3	<p>Easy to access service and maintenance.</p>	
5.2.4	<p>Visibility of instruments with canopy closed.</p>	



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5.2.5	Sufficient ventilation for the power source and generator compartment.	
5.3	Safe stowage for output cables shall be provided.	
5.4	<b>Brakes:</b> In case of tow type, the tow bar can have two basic positions, namely the extended towing position and in down position touching towards ground whereby the parking brake is engaged. There should be braking action only when the tow bar is within 30 degrees from the vertical position.	
5.5	The Overall dimensions of the unit should be kept to a minimum-  Length (excluding tow bar extend) 3400mm  Width:- 1900mm  Height:- 1900mm  The overall turning radius should be less than or equal to 3.3m.	
5.6	Complete Chassis should be Galvanized to avoid corrosion.	
5.7	Anti-Towing System built into towbar to avoid incidental dragging of power cable and plug on the ground.	
<b>6</b>	<b>ELECTRICAL SYSTEM</b>	
6.1	System 24 volts DC.	
6.2	Alternator minimum 55 Amps capacity	
6.3	All switches should be weatherproof.	
6.4	Anti-collision Amber light – flashing type qty. 02 should be provided (60-90 flashes/min) Revolving type not recommended. LED/confirming to IP65/66/67. Intensity at a distance of 1 Mtr should be 40 candelas. Assembly should make with die cast	



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		aluminum alloy. Certificate from NALB/ILAC/APAC or similar institute should be provided for confirming the above parameters.	
	6.5	Area lights.	
	6.6	All electrical wiring and components shall be simple and maintainable, with the possibility to indentify the ratings of all the components.	
	6.7	Individual wires in harness/loom shall have identification numbers on all the length of the wires.	
	6.8	Complete wiring should be heat resistant and suitably protected.	
	6.9	Circuit Breakers will be preferred in place of fuses.	
	6.10	In -built Self-diagnosis system for Engine and Alternator should be provided.	
	6.11	The alternator shall be equipped with protective system to cause the load to be disconnected under abnormal conditions of voltage, frequency and load. For limits refer table 6.1 of AHM 972.	
<b>7</b>	<b>ENGINE</b>		
	7.1	Power Source for driving the generator shall be Deutz water cool, Turbocharged, Low exhaust emission Diesel Engine of minimum engine power of 107KW to produce Rated output (90 KVA at 0.8pf) and normal overload in tropical conditions, with Complying with latest emission norms issued by the Gol on the day of PO issuing OR stageIV, whichever is superior.	



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	7.2	It shall be protected with safety features to automatically stop the power source under condition of over speed, low oil pressure, high coolant temperature and low coolant level.	
	7.3	Unit must be equipped with an aircraft protection system which should automatically open the contactor and remove power to the aircraft.	
	7.4	Unit must be equipped with anti-restart system to prevent cranking when engine running.	
	7.5	Unit must be equipped with the engine shutdown adjustable delay timer.	
	7.6	RADIATOR must be pressurized type and provided with reservoir for efficient cooling.	
<b>8</b>	<b>SAFETY PROTECTION SYSTEM</b>		
	The unit should be provided with following safety devices with indicator:		
	8.1	Over frequency;	
	8.2	Under frequency;	
	8.3	Over voltage;	
	8.4	Under voltage;	
	8.5	Over speed alarm and shut down;	
	8.6	Overload for output cable;	
	8.7	Low oil pressure alarm and shut down;	



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	8.8	Low coolant alarm and shut down;	
	8.9	High engine temperature and shut down;	
	8.10	Low fuel level alarm and shut down;	
	8.11	Phase sequence: Indication of fault to be provided	
	8.12	The E and F circuit (aircraft interlock);	
	8.13	NBPT (No Break Power Transfer) protection shall be provided; ( Working principle to be furnished)	
	8.14	Starter interlock safety to be provided;	
	8.15	Power not accepted-Indication of fault to be provided.	
<b>9</b>	<b>Control panel</b>		
	9.1	Emergency stop.	
	9.2	AC voltmeter to check phase to phase and phase to neutral voltage. DC Voltmeter in TR Unit.	
	9.3	Frequency meter.	
	9.4	AC Ammeter to check output current in each phase. DC Ampere meter in TR Unit	
	9.5	Fault indication should remain 'ON' until Reset even after engine cuts off.	
	9.6	Temperature gauge.	
	9.7	Oil pressure gauge.	



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	9.8	Hour meter.	
	9.9	Fuel gauge.	
	9.10	Contacto open & closed switch with indicating light for output cables.	
<b>10</b>	<b>OTHER FEATURES</b>		
	10.1	PCB & alternator should be protected for tropical atmospheric conditions. To reduce vibrations to the bare minimum all PCBs are to be mounted with vibration dampers. PCB must be repairable type and covered under warranty.	
	10.2	Line drop compensation should be provided for output cables.	
	10.3	<p>The output cables shall be of 200 V AC for single cord cable capable of carrying 125% of the rated load for 5minutes at 60 degree Celsius outer cable jacket. It shall have minimum length of 6m and terminate in a six pin socket compatible with Std. Power receptacle of commercial aircrafts (ISO 461: 1985). As per AHM 972 Para no.-6.3</p> <p>Second Output cable of minimum length of 6m for 28.5 Volts DC Power supply.</p> <p>Cable protection sleeves to be provided for complete cable length. Cable protection sleeves to be provided with cable tie at 300 mm interval.</p>	
	10.4	Cable Tie to be provided for holding the socket. Protection Cap to be provided for socket.	
	10.5	Noise level of 85 dB (A) at 1 meter at full load.	



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10.6	Control panel shall have accessibility of controls and instruments when mounted on trailer.	
10.7	Units to be painted as per AI AIRPORT SERVICES LTD colour scheme.	
10.8	Fuel tank should be easily accessible and removable for periodic maintenance.	
10.9	1 unit 5 Kg ABC Type fire extinguisher per unit should be fitted on the chassis.	
10.10	<p>Vendor item details such as Maintenance / Operation Manual and Parts catalogue for the component / Engine should be provided (2 sets)with each unit.</p> <p>Also, with commissioning of unit operational and maintenance training should be given to our staff.</p>	
10.11	Fuel Tank should be made up of non-corrosion material, preferable tough industrial grade polymer covered by galvanized steel.	
10.12	Transient Performances - according to MIL STD 704F / EN2282 / ISO 6858 /SAE ARP 5015	
10.13	Harmonics - < 3%	
10.14	Recovery Time no load / full load - 80ms	
10.15	Communication System – Possible to see in 'real time' the GPU's information on smartphone, computer, etc. the Engine parameters, Fuel level, fuel consumption, failure information, faults history, electrical performance. Access to this system must be provided free of cost.	



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	10.16	Automatic Idling during NO load time and when cable plugs are plugged/placed inside the plug holder.	
	10.17	Automatic engine stop after 20 min if no load is provided.	
	10.18	TRANSPORTATION: Hook points at suitable location / Forklift slots for lifting and loading.	
	<b>WARRANTY</b>		
11			
	11.1	<p>All components, materials, structure parts and workmanships must be warranty for a period of two year after commissioning.</p> <p>Vendor must provide all parts, materials, tools and labor to repair, rectify, or modify the equipment breakdown during warranty period.</p> <p>The availability of parts (emergency or normal maintenance parts) and service to the equipment as above must be valid during the equipment being operated for a minimum of 10 (ten) years.</p>	
11	<b>OPERATIONS</b>		
	11.1	The operation panel shall be provided with water proof electrical switches.	
	11.2	<b>SAFETY</b> - Emergency engine stop button(s) (red mushroom type) shall be provided at convenient positions to allow for immediate shut down in event of emergency OR must have inbuilt cut-off system within engine.	
12	<b>OTHER BASIC REQUIRMENTS</b>		



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	12.1	A set of special tools for each unit to be provided. Also QTY 02 diagnostic kit along with diagnostic software, if any, to be provided.	
<b>13</b>	<b>PAINTING</b>		
	13.1	Unit to be given anticorrosion treatment prior to painting (please mention such treatment) and to be coated with Epoxy Primer and painted with PU Paint (ASIAN/BERGER/AKZONOBEL) in AIASL colour scheme (RAL 3020-LUMINOUS RED). AIASL will provide logo file & dimension. The manufacturer will procure/prepare AIASL sticker with logo and past/fix for the unit as per AIASL scheme.	
	13.2	The supplier/vendor should provide a warranty of at least one year on the painting against fading of color. In case the color fades, the affected equipment to be repainted by the vendor on FOC basis.	

\*\*\*\*\*End of Technical Specification\*\*\*\*\*