

# AI ENGINEERING SERVICES LIMITED

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



Ref No: AIESL/MMD/Tools & Equipment /01

Date: 23.02.2026

## INSTRUCTIONS TO BIDDERS

Subject: AI Engineering Services Limited (AIESL), Old Airport, Santacruz (E) invites on line bids through GeM portal from authorized firms for supply of following equipment at Old Airport, AIESL, Mumbai.

SI No	Schedule	Description	Qty
1	Schedule-I	Moveable tail dock code E-A/C	1
2	Schedule-II	Moveable tail dock code C	1
3	Schedule-III	Tow tug-EV	4
4	Schedule-IV	Tow tug-Diesel	4
5	Schedule-V	Forklift 5 Ton	2
6	Schedule-VI	Chair Lift	1
7	Schedule-VII	Scissor platform-15 Mtr	1
8	Schedule-VIII	Scissor platform-12 Mtr	1

a) **Location of Supply:** AIESL, OAP, Santacruz (East), Mumbai – 400 029.

### b) **Earnest Money Deposit**

For Schedule-I of Rs. 2,00,000 /- (Two Lakh only)

For Schedule-II of Rs. 2,00,000 /- (Two Lakh only)

For Schedule-III of Rs. 2,00,000 /- (Two Lakh only)

For Schedule-IV of Rs. 2,00,000 /- (Two Lakh only)

For Schedule-V of Rs. 2,00,000 /- (Two Lakh only)

For Schedule-VI of Rs. 1,40,000 /- (One Lakh forty thousand only)

For Schedule-VII of Rs. 80,000 /- (Eighty thousand only)

For Schedule-VIII of Rs. 60,000 /- (Sixty thousand only)

In case bidder quotes more than one schedule, bidder should submit the EMD on cumulative basis. EMD to be submitted in the payment gateway available in the “[linkhttps://forms.eduqfix.com/aiengineering/add](https://forms.eduqfix.com/aiengineering/add)”. EMD will not carry any interest.

## ❖ **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.

Date:  
Place:

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

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✓ 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.

❖ 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.

## ❖ General Terms and Conditions

- ✓ 'AIESL' as used in the Tender document means 'AI Engineering Services Limited'.
- ✓ "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.
- ✓ "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.
- ✓ 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.

## ❖ **ONE BID PER BIDDER:**

A Bidder shall submit only 'one [01] Bid' in the same Bidding Process either as single entity. A Bidder who submits or participates in more than 'one [01] Bid' will cause all the proposals in which the Bidder has participated to be disqualified.

A Bidder shall submit only one bid in a particular bidding process (unless otherwise allowed in the bid STC / ATC conditions). In case of a holding company having more than one independent manufacturing units or more than one unit having common business ownership / management, only one unit should quote. Similar restrictions shall apply to closely related sister companies. Bidder's sister/ Associated/ Allied concern(s) participating or applying against the same tender, shall lead to disqualification of Bidders. Sister / Associated / Allied concern means a company, society, partnership firm or proprietorship firm having one or more common persons as Director / Partner/ Member/ Owner. A Bidder who submits more than one bid will cause all the proposals submitted in the particular bid to be disqualified. In relation to the above, a person will include firm(s) of Proprietorship / Partnership Firm / Limited Liability Partnership / Private Limited / Limited company / Society registered under Society's Act / Statutory Bodies / any other legal entity, as the case may be, & will be deemed to have submitted multiple bids in a particular bid if a person bids in any of the two formats given below:

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

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

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- i. individual or proprietorship format and/or
- ii. a partnership or association of persons format and/or
- iii. a company

format Whereby,

- A company shall for this purpose include any artificial person whether constituted under the Indian laws or of any other country. A person shall be deemed to have bid in a partnership format or in association of persons format if he is a partner of the firm which has submitted the bid or is a member of any association of persons which has submitted a bid.

- A person shall be deemed to have bid in a company format if the person holds:

- i. More than 10% (ten percent) of the voting share capital of the company which has submitted a bid, or
- ii. Is a director and / or Key Managerial Personnel of the company which has submitted a bid, or
- iii. Holds more than 10% (ten percent) of voting share capital in and/or is a director and / or Key Managerial Personnel of a holding company of that company which has submitted the bid.

By making a bid pursuant to the Tender Documents, the bidder / tenderer shall be deemed to have declared that the bidder / tenderer has not made any other bid or multiple bids as understood or deemed in terms of this clause.

All the bids of a bidder who has submitted multiple bids, as per the clause, shall be rejected and Bid Security for all such bids shall be forfeited, not by way of penalty or liquidated damages but by way of reimbursement of the pre-estimated costs likely to be incurred by the buyer towards bidding process and in the scrutiny & evaluation of bids.

In addition to the above, bidders found to be in contravention to the said clause will be liable for administrative actions.

## ❖ Standard Terms & Conditions:

- ✓ AIESL reserves the right to close the tender / reject any / all offers at any stage of tender at its sole discretion.
- ✓ 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.
- ✓ 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 3 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 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.
- ✓ 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.
- ✓ 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.

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

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

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❖ Specific Terms & Conditions: - Scope of Work, Insurance & Warranty

✓ **Standard Warranty and Delivery period:**

SI No	Schedule	Description	Standard Warranty	Delivery period
1	Schedule-I	Moveable tail dock code E-A/C	5 Years	6 Months
2	Schedule-II	Moveable tail dock code C	5 Years	6 Months
3	Schedule-III	Tow tug-EV	2 Years	6 Months
4	Schedule-IV	Tow tug-Diesel	2 Years	6 Months
5	Schedule-V	Forklift 5 Ton	2 Years	3 Months
6	Schedule-VI	Chair Lift	2 Years	6 Months
7	Schedule-VII	Scissor platform-15 Mtr	2 Years	6 Months
8	Schedule-VIII	Scissor platform-12 Mtr	2 Years	6 Months

- ✓ **Insurance & Other obligations:** - Equipment (Including Insurance and other obligations) is the sole responsibility of the successful tenderer until successfully accepted by AIESL.
- ✓ Standard Warranty shall be from the date of commissioning against all materials/ workmanship defects for the unit as well as for bought-out items.
- ✓ 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.
- ✓ Standard warranty should include free servicing and comprehensive parts coverage at premises where the equipment is positioned.
- ✓ 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.
- ✓ Separate Standard and special conditions are mentioned in Technical Specifications of each schedule.
- ✓ **Documents:** Along with the units, 3 bound manuals with details of specifications, diagram, trouble shooting, preventive maintenance check sheet, & schedule, list of recommended spares with part no. etc shall be supplied.
- ✓ **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.

## ❖ SPECIAL CONDITIONS

- ✓ The location of work is Hangar/Apron areas, at Old Airport. The area is highly security sensitive and contractor will be required to obtain entry pass from our Security dept.
- ✓ A qualified and responsible supervisor will always remain present at site, when the work is being carried out. He will ensure compliance of standard safety precautions and use of safety equipment.
- ✓ Equipment which are in fit to use and serviceable condition only shall be provided to AIESL. It will be the contractor's sole responsibility to attend break down of equipment, if any, during the operation.
- ✓ Safety of the contractor's personnel / equipment shall be responsibility of the contractor.

## ❖ TENDER PROCEDURE

- ✓ 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.**
- ✓ 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.
- ✓ Amendments or extension of the close / due date, if any, to this tender will be informed via GeM portal
- ✓ 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.

Date:  
Place:

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

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- ✓ The bidder or their authorized representatives (maximum two) would only be permitted to attend the pre-bid meeting, if any.
- ❖ **For any clarification, please contact the following official.**
  - 1) Technical clarification- Mr. P K. Kusum. DGM, EFD, E-mail- [pk.kusum@aiesl.in](mailto:pk.kusum@aiesl.in)  
Mr. Apoorva Chitari, Executive - EFD, [e-mail-ac.chitari@aiesl.in](mailto:e-mail-ac.chitari@aiesl.in).
  - 2) Commercial Clarification- Mr. Sunil Shende, GDM, PPMM, [sd.shende@aiesl.in](mailto:sd.shende@aiesl.in).  
Mr. Ashisa Ku Swain, Dy. Manager-MM, [email-ashish.swain@aiesl.in](mailto:email-ashish.swain@aiesl.in).
- ❖ **Handling of Grievances during the Tender Process:**
  - ✓ Any Supplier, Contractor or consultant that claims to have suffered or is likely to suffer loss or injury as a result of a decision/action/omission of the Procurement Entity may make an application for its review within a period of Five (5) days to Dy. GM-PPMM in the email id- [sd.shende@aiesl.in](mailto:sd.shende@aiesl.in). Successful bidders may seek de-briefing regarding the rejection of their bid, in writing or electronically, writing Five (5) days of the declaration of techno-commercial or financial evaluation result.
  - ✓ Only directly affected and participating bidders can raise a grievance.
  - ✓ Grievances can be raised only for the stage in which the bidder is eligible.
    - **After Pre-qualification:** Only pre-qualified bidders may raise issue about technical/financial bids.
    - **After technical evaluation:** Only technically qualified bidders may raise issues about financial bids.
- ❖ **Submission of BIDS:**
  - Technical Bid:**
  - ✓ Bidders are advised to study carefully the Terms & Conditions as given in this tender document and submit their **technical bid** accordingly.
  - ✓ 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.**
  - ✓ 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.
  - ✓ 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.
  - ✓ AIESL reserves the right to change this date of opening at its own discretion.
  - ✓ **All the supporting documents, as specified in the tender documents that are required for compliance of bid must be submitted with the technical bid.**
  - ✓ 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.
- ❖ **Price Bid:**
  - ✓ Bidders are required to quote total quantity for each schedule.
  - ✓ AIESL will not accept inclusion of any additional costs, if requested for, after closing of the tender.
  - ✓ 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.

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

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

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

- ✓ The price offered / agreed should remain firm till completion of the contract.
- ✓ 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.
- ✓ 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.
- ✓ 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.
- ✓ 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.**

## ❖ AMENDMENTS / EXTENSIONS:

- ✓ AIESL reserves the right to, amend any part / terms and conditions of the tender / extend the due date at its sole discretion.
- ✓ 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.
- ✓ 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.

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

- ✓ 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.
- ✓ 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.
- ✓ Conditional Bids are liable for rejection. Decision of AIESL in such case shall be final and binding.

## ❖ Benefits / Preference for Micro & Small Enterprises (MSEs) and MIIs:

- ✓ Benefits and purchase preference will be given to MSEs as per Public Procurement Policy for Micro and Small Enterprises (MSEs), Order, 2012 (Dated 23.03.2012).
- ✓ Benefits and purchase preference will be given to Make in India as per Govt. of India policy.

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

### **Earnest Money Deposit**

For Schedule-I of Rs. 2,00,000 /- (Two Lakh only)

For Schedule-II of Rs. 2,00,000 /- (Two Lakh only)

For Schedule-III of Rs. 2,00,000 /- (Two Lakh only)

For Schedule-IV of Rs. 2,00,000 /- (Two Lakh only)

For Schedule-V of Rs. 2,00,000 /- (Two Lakh only)

For Schedule-VI of Rs. 1,40,000 /- (One Lakh forty thousand only)

Date:

Place:

Bidder Signature:

Name & Designation:

Company Name & Seal:

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For Schedule-VII of Rs. 80,000 /- (Eighty thousand only)

For Schedule-VIII of Rs. 60,000 /- (Sixty thousand only)

In case bidder quotes more than one schedule, bidder should submit the EMD on cumulative basis. EMD to be submitted in the payment gateway available in the “[linkhttps://forms.eduqfix.com/aiengineering/add](https://forms.eduqfix.com/aiengineering/add)”. EMD will not carry any interest.

## **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).

## ❖ **Security Deposit / Performance Bank Guarantee:**

- ✓ 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 5 days of notification of notification of acceptance of bid and communication of contract for each service. 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.
- ✓ The Applicable Security Deposit / Performance Bank Guarantee must be submitted in the payment gateway available in the [linkhttps://forms.eduqfix.com/aiengineering/add](https://forms.eduqfix.com/aiengineering/add). SD will not carry any interest and will be adjusted against security deposit.
- ✓ The SD is applicable to all bidders including MSME's.
- ✓ 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.
- ✓ 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.
- ✓ In case of breach of Contract or violation of any terms of the Contract the Security Deposit shall be forfeited / bank guarantee be invoked.
- ✓ 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.
- ✓ Validity of the BG would be for an additional period of 60 days after the scheduled completion of all obligations under the Contract.

## ❖ **EVALUATION CRITERIA:**

### ✓ **Technical Bids :**

- ✓ 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.

Date:  
Place:

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

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- ✓ **Price Bids:** The Price Bids of only those bidders who qualify as per the requirements of Technical Bid would be opened.
- ❖ **Inspection Clause:**
- ✓ **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 work schedule as indicated in this tender. The decision of AIESL in such case shall be final and binding.
- ✓ **Inspection of the facility of the bidder who has been awarded the Contract / Purchase Order:** AIESL further reserves the right to inspect the work location/office 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.

❖ **Other Terms & Conditions:**

**Force Majeure:**

- ✓ 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.
- ✓ 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.
- ✓ For the avoidance of any doubt it is clarified that, payment obligations of AIESL shall be excused due to an event of Force Majeure.
- ✓ **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.
- ✓ **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.

- ❖ **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.

❖ **Quality inspection and Rejection after release of contract / Purchase Order:**

QUALITY ASSURANCE – Wherever applicable, successful bidder/s should ensure that Quality of the work/job 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:

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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 and required details to be filled by the bidder.

Sr. No.	Eligibility Criteria	Compliance (Yes / No)	Remarks
1	Whether Bidder is a Proprietorship/Partnership Firm, LLP Etc./Company registered in India under the Indian Companies ACT 1956 or Indian Companies Act 2013.		
2	<p><b>Past Experience of Similar Contract:</b></p> <p><b>Schedule-I: Moveable tail dock code E-A/C:</b> The Bidder should have regularly for at least three years ending on 31<sup>st</sup> March 2025 manufactured or supplied the <b>Moveable tail dock code E-A/C or similar Work Stands for A/Cs.</b> Similar/Same or higher specifications. Supporting document in form of purchase order or commissioning report along with performance certificate to be submitted.</p> <p><b>Schedule-II: Moveable tail dock code C:</b> The Bidder should have regularly for at least three years ending on 31<sup>st</sup> March 2025 manufactured or supplied the <b>Moveable tail dock code C or similar work stands for A/C</b> Similar/same or higher specifications. Supporting document in form of purchase order or commissioning report along with performance certificate to be submitted.</p> <p><b>Schedule-III: Tow tug-EV</b> The Bidder should have regularly for at least three years ending on 31<sup>st</sup> March 2025 manufactured or supplied the <b>Tow tug-EV</b> same/similar or higher specifications. Supporting document in form of purchase order or commissioning report along with performance certificate to be submitted.</p> <p><b>Schedule-IV: Tow tug-Diesel</b> The Bidder should have regularly for at least three years ending on 31<sup>st</sup> March 2025 manufactured or supplied the <b>Tow tug-Diesel</b> same/similar or higher specifications. Supporting document in form of purchase order or commissioning report along with performance certificate to be submitted.</p> <p><b>Schedule-V: Forklift 5 Ton</b> The Bidder should have regularly for at least three years ending on 31<sup>st</sup> March 2025 manufactured or supplied the <b>Forklift 5 Ton</b> same/similar or higher specifications. Supporting document in form of purchase order or commissioning report along with performance certificate to be submitted.</p>		

Date:  
Place:

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

# AI ENGINEERING SERVICES LIMITED

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



Ref No: AIESL/MMD/Tools & Equipment /01

Date: 23.02.2026

	<p><b>Schedule-VI: Chair Lift</b> The Bidder should have regularly for at least three years ending on 31<sup>st</sup> March 2025 manufactured or supplied the <b>Chair Lift</b> same/similar or higher specifications. Supporting document in form of purchase order or commissioning report along with performance certificate to be submitted.</p> <p><b>Schedule-VII: Scissor platform-15 Mtr</b> The Bidder should have regularly for at least three years ending on 31<sup>st</sup> March 2025 manufactured or supplied the <b>Scissor platform-15 Mtr</b> same/similar or higher specifications. Supporting document in form of purchase order or commissioning report along with performance certificate to be submitted.</p> <p><b>Schedule-VIII: Scissor platform-12 Mtr</b> The Bidder should have regularly for at least three years ending on 31<sup>st</sup> March 2025 manufactured or supplied the <b>Scissor platform-12 Mtr</b> same/similar or higher specifications. Supporting document in form of purchase order or commissioning report along with performance certificate to be submitted.</p> <p><b>Note-Bidder may quote for one schedule or more than one schedule, if bidder is quoting more than one schedule, bidder has to submit work order/ performance certificate for each schedule individually.</b></p>		
3	<p><b>Performance Capabilities:</b></p> <p><b>Schedule-I: Moveable tail dock code E-A/C:</b> The bidder should have manufactured or supplied at least one <b>Moveable tail dock code E-A/C or similar Work Stands for A/Cs</b> at least one of the five years ending on 31.01.2026 and the product should be successful operation for least two years as on 31.01.2026.</p> <p><b>Schedule-II: Moveable tail dock code C.</b> The bidder should have manufactured or supplied at least one <b>Moveable tail dock code C Or similar work stands</b> in at least one of the five years ending on 31.01.2026 and the product should be successful operation for least two years as on 31.01.2026.</p> <p><b>Schedule-III: Tow tug-EV</b> The bidder should have manufactured or supplied at least three <b>Tow tug-EV</b> in at least one of the five years ending on 31.01.2026 and the product should be successful operation for least two years as on 31.01.2026.</p> <p><b>Schedule-IV: Tow tug-Diesel</b> The bidder should have manufactured or supplied at least three <b>Tow tug-Diesel</b> in at least one of the five years ending on 01.01.2026 and the product should be successful operation for least two years as on 31.01.2026.</p> <p><b>Schedule-V: Forklift 5 Ton</b> The bidder should have manufactured or supplied at least one <b>Forklift 5 Ton</b> in at least one of the five years ending on</p>		

Date:  
Place:

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

# AI ENGINEERING SERVICES LIMITED

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



Ref No: AIESL/MMD/Tools & Equipment /01

Date: 23.02.2026

	<p>01.01.2026 and the product should be successful operation for least two years as on 31.01.2026.</p> <p><b>Schedule-VI: Chair Lift</b> The bidder should have manufactured or supplied at least one <b>Chair Lift</b> in at least one of the five years ending on 01.01.2026 and the product should be successful operation for least two years as on 31.01.2026.</p> <p><b>Schedule-VII: Scissor platform-15 Mtr</b> The bidder should have manufactured or supplied at least one <b>Scissor platform-15 Mtr or similar height</b> in at least one of the five years ending on 31.01.2026 and the product should be successful operation for least two years as on 01.01.2026.</p> <p><b>Schedule-VIII: Scissor platform-12 Mtr</b> The bidder should have manufactured or supplied at least one <b>Scissor platform-12 Mtr or similar height</b> in at least one of the five years ending on 31.01.2026 and the product should be successful operation for least two years as on 31.01.2026.</p> <p><b>Note-Bidder quoting more than one schedule, bidder has to qualify each schedule in Performance Capabilities.</b></p>		
4	EMD to be submitted along with Technical Bid.		
5	<p><b>Schedule-I: Moveable tail dock code E-A/C:</b> <b>Financial Strength:</b> a). Average Annual turnover of related services during the last three years, ending on 31<sup>st</sup> March'25, should be Rs. 1 Cr or above (or equivalent in foreign currency) as per the annual report (audited balance sheet and profit &amp; loss account) of the relevant period, duly authenticated by Chartered Accountant/Cost Accountant in India or equivalent in relevant countries. b). The net worth of the bidder firm (manufacturer or principal of authorised representative): i. should not be negative on 31.01.2026 and ii. Should have not eroded by more than 30% (Thirty percent) in the last three years, ending on 31.01.2026.</p> <p><b>Schedule-II: Moveable tail dock code C.</b> <b>Financial Strength:</b> a). Average Annual turnover of related services during the last three years, ending on 31<sup>st</sup> March'25, should be Rs. 60 Lakh or above (or equivalent in foreign currency) as per the annual report (audited balance sheet and profit &amp; loss account) of the relevant period, duly authenticated by Chartered Accountant/Cost Accountant in India or equivalent in relevant countries. b). The net worth of the bidder firm (manufacturer or principal of authorised representative): i. should not be negative on 31.01.2026 and ii. Should have not eroded by more than 30% (Thirty percent) in the last three years, ending on 31.01.2026.</p> <p><b>Schedule-III: Tow tug-EV.</b> <b>Financial Strength:</b> a). Average Annual turnover of related services during the last three years, ending on 31<sup>st</sup> March'25, should be Rs. 40 Lakh or above (or equivalent in foreign currency) as</p>		

Date:  
Place:

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

# AI ENGINEERING SERVICES LIMITED

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



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per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by Chartered Accountant/Cost Accountant in India or equivalent in relevant countries.

b). The net worth of the bidder firm (manufacturer or principal of authorised representative):

i. should not be negative on 31.01.2026 and

ii. Should have not eroded by more than 30% (Thirty percent) in the last three years, ending on 31.01.2026.

**Schedule-IV: Tow tug-Diesel**

**Financial Strength:** a). Average Annual turnover of related services during the last three years, ending on 31<sup>st</sup> March'25, should be Rs. 40 Lakh or above (or equivalent in foreign currency) as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by Chartered Accountant/Cost Accountant in India or equivalent in relevant countries.

b). The net worth of the bidder firm (manufacturer or principal of authorised representative):

i. should not be negative on 31.01.2026 and

ii. Should have not eroded by more than 30% (Thirty percent) in the last three years, ending on 31.01.2026.

**Schedule-V: Forklift 5 Ton.**

**Financial Strength:** a). Average Annual turnover of related services during the last three years, ending on 31<sup>st</sup> March'25, should be Rs. 40 Lakh or above (or equivalent in foreign currency) as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by Chartered Accountant/Cost Accountant in India or equivalent in relevant countries.

b). The net worth of the bidder firm (manufacturer or principal of authorised representative):

i. should not be negative on 31.01.2026 and

ii. Should have not eroded by more than 30% (Thirty percent) in the last three years, ending on 31.01.2026.

**Schedule-VI: Chair Lift.**

**Financial Strength:** a). Average Annual turnover of related services during the last three years, ending on 31<sup>st</sup> March'25, should be Rs. 28 Lakh or above (or equivalent in foreign currency) as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by Chartered Accountant/Cost Accountant in India or equivalent in relevant countries.

b). The net worth of the bidder firm (manufacturer or principal of authorised representative):

i. should not be negative on 31.01.2026 and

ii. Should have not eroded by more than 30% (Thirty percent) in the last three years, ending on 31.01.2026.

**Schedule-VII: Scissor platform-15 Mtr.**

**Financial Strength:** a). Average Annual turnover of related

Date:

Place:

Bidder Signature:

Name & Designation:

Company Name & Seal:

# AI ENGINEERING SERVICES LIMITED

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Ref No: AIESL/MMD/Tools & Equipment /01

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	<p>services during the last three years, ending on 31<sup>st</sup> March'25, should be Rs. 16 Lakh or above (or equivalent in foreign currency) as per the annual report (audited balance sheet and profit &amp; loss account) of the relevant period, duly authenticated by Chartered Accountant/Cost Accountant in India or equivalent in relevant countries.</p> <p>b). The net worth of the bidder firm (manufacturer or principal of authorised representative):</p> <p>i. should not be negative on 31.01.2026 and</p> <p>ii. Should have not eroded by more than 30% (Thirty percent) in the last three years, ending on 31.01.2026.</p> <p><b>Schedule-VIII: Scissor platform-12 Mtr</b></p> <p><b>Financial Strength:</b> a). Average Annual turnover of related services during the last three years, ending on 31<sup>st</sup> March'25, should be Rs. 12 Lakh or above (or equivalent in foreign currency) as per the annual report (audited balance sheet and profit &amp; loss account) of the relevant period, duly authenticated by Chartered Accountant/Cost Accountant in India or equivalent in relevant countries.</p> <p>b). The net worth of the bidder firm (manufacturer or principal of authorised representative):</p> <p>i. should not be negative on 31.01.2026 and</p> <p>ii. Should have not eroded by more than 30% (Thirty percent) in the last three years, ending on 31.01.2026.</p> <p><b>Note-Bidder quoting more than one schedule, bidder has to qualify each schedule in Financial Strength Capabilities.</b></p>		
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.		
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.		
9	Bidder should submit the Power of Attorney against the authorized signatory of the bid.		
10	Bidder should submit individual directors / Proprietors / Partners Aadhar Card / PAN Card / DIN Details (In case of Public Ltd. / Pvt. Ltd. companies) against the One Bid Per Bidder clause. In case of Pvt. Ltd / Public Ltd. companies' bidder should also submit Share Holders details against the clarification if required.		
11	<b><u>PDI &amp; Delivery: -</u></b> Items are to be delivered at OAP, Kalina, Mumbai and before delivery, a team of AIESL Officials will visit and inspect at party's premise. Three sets of Operations & Maintenance Manuals and on-site training for operations & maintenance to be provided by the bidder.		

Date:  
Place:

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

# AI ENGINEERING SERVICES LIMITED

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



**Ref No: AIESL/MMD/Tools & Equipment /01**

**Date: 23.02.2026**

12	Manufacturer/ Authorized Manufacturer/ Authorized Dealer (Authorization letter to be submitted for Authorized Dealer.)		
13	Tender document should be duly signed, stamped, and completed in all aspects (pages)		
14	Bidder should mention only Quoted / Not Quoted on each BOQ in Technical Bid. Technical Bid should not mention any rates / prices else bidder will be disqualified during technical evaluation.		

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

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

# AI ENGINEERING SERVICES LIMITED

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



Ref No: AIESL/MMD/Tools & Equipment /01

Date: 23.02.2026

## COMPLIANCE STATEMENT

Sr No.	Material	Compliance (Yes / No)	Remarks
1	Moveable tail dock code E-A/C		
2	Moveable tail dock code C		
3	Tow tug-EV		
4	Tow tug-Diesel		
5	Forklift 5 Ton		
6	Chair Lift		
7	Scissor platform-15 Mtr		
8	Scissor platform-12 Mtr		

Date:  
Place:

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

# AI ENGINEERING SERVICES LIMITED

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



**Ref No: AIESL/MMD/Tools & Equipment /01**

**Date: 23.02.2026**

## ❖ 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 as per GeM guidelines.
- TDS/ taxes shall be deducted by AIESL from payment made against these invoices, as per the applicable laws.

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

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



**Ref No: AIESL/MMD/Tools & Equipment /01**

**Date: 23.02.2026**

❖ **Penalty Clause:**

- If the supplier fails to supply the item within the time frame shall be liable to pay the liquidated damage (LD)/penalty charges at the rate 0.5 % per week or part thereof the value of the undelivered portation of the goods (Excluding taxes and delivery charges) subject to maximum of 10% of the value of the undelivered or delayed goods. This is to be recovered from the Security Deposit/ Performance Guarantee.
- There should normally be no system of waiver of LDs for delayed supplies in supply contracts and it may strictly be an exception rather than a rule. For an extension of the delivery date with waiver of LD, approval of the CA with consultation of associated Finance may be taken and justifications recorded.
- **Penalty for Substandard / defective Quality / Short supply:** At the time of delivery / acceptance of the goods if it is found that the goods so delivered are not as per the specifications given in the Contract / Purchase Order then AIESL reserves the right to reject the entire lot and get the entire quantity replaced free of cost by the bidder. The service is acceptable as per the specification provided in the tender and subject to quality control of the user department.

❖ **Termination and Exit Clause:**

➤ In case of unsatisfactory performance or breach of any of the clauses of this contract, AIESL would issue a notice of 30 days to the party to rectify the breach and improve the performance failing which AIESL shall be at liberty to terminate this agreement by providing 30 days written notice to the party. The party shall not have any right to dispute or question the judgment of AIESL of the unsatisfactory performance of the party.

➤ Notwithstanding the above, AIESL shall also be at liberty to terminate this agreement for any reason including change in situation/circumstances, etc. by providing the party with 90 days written notice. The party shall also be at liberty to terminate this contract by providing AIESL with 90 days written notice. In such an event, the terminating party shall have no right to claim compensation/damages, etc. from the terminating party on account of early termination. However, the party shall duly comply with their respective obligations during the notice period and thereafter, shall discharge the obligations arising out of the agreement till the termination.

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

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

**AI ENGINEERING SERVICES LIMITED**

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

**Ref No: AIESL/MMD/Tools & Equipment /01****Date: 23.02.2026****BIDDER INFORMATION DETAILS****BIDDER'S DETAILS**

S. No.	Required Details	To be filled by the Bidder
1	Name of the Company	
2	Status of the Bidder – a) Whether a Firm (Proprietary, Partnership), Company, Corporation, Registered Society	
	b) If the Bidder is a partnership firm, then please state whether the signatory has the authority to refer to arbitration, any disputes concerning the business of the partnership agreement or a power of attorney.	
	c) If the Bidder is a Company incorporated under the Companies Act, 1956 / 2013, then the signatory should have the authority to submit the bid on behalf of the said Company and refer to arbitration disputes arising under this Tender and / or Contract by a power of attorney board resolution.	
3	Company office Address of the bidder	
4	Name of the Contact Person Designation Telephone no. / Mobile no. Email Address	
5	GST registration number	
6	PAN Card Number	
7	Copy of valid certificate of registration with agencies / bodies as mentioned under the Clause 'Benefits / Preference for Micro & Small Enterprises (MSEs)' must be submitted.	
8	Please specify the details of the registration certificate:	
	Registration Certificate No.	
	Date of Issue	
	Valid Up to	
	Item covered under Registration Certificate	
9	Do you have any ongoing disputes with any Govt. or statutory agencies? *	
10	Is the bidder a MSE unit owned by a person belonging to Scheduled Caste or Scheduled Tribe	
11	Relaxation to Start-up companies (whether MSME or Non-MSME) as per clause in tender terms will be given provided they submit the 'Certificate of Recognition' as mentioned in tender document under heading "Exemption of EMD" in tender terms.	
	a) Are you a Start-up Company	
	b) If yes, Certificate of Recognition to be attached.	
12	Any other relevant information	

(\* ) – if Yes, please provide details.

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

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

**AI ENGINEERING SERVICES LIMITED**

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



**Ref No: AIESL/MMD/Tools & Equipment /01**

**Date: 23.02.2026**

**SELF CERTIFICATION BY BIDDER WHO CLASS-I LOCAL SUPPLIER/ CLASS-II LOCAL SUPPLIER TOWARDS MANDATORY MINIMUM LOCAL CONTENT/ DOMESTIC VALUE ADDITION (APPLICABLE FOR ALL BIDDERS INCLUDING MSEs)**

To,  
AI ENGINEERING SERVICES LIMITED  
MATERIALS MANAGEMENT DIVISION  
OLD AIRPORT PREMISES, SANTACRUZ (EAST)  
MUMBAI-400029

SUB.:

TENDER NO.:

Dear Sir

We, M/s\_\_\_\_\_ (Name of Bidder) confirm that as per the definition of policy we are:

Class-I Local supplier [ ]

Class-II Local Supplier [ ]

(Bidder is to tick appropriate option (✓) above).

It is further confirm that M/s\_\_\_\_\_ (Name of Bidder) meet the mandatory minimum Local content/Domestic Value Addition requirement for Class-I Local supplier/ Class-II Local supplier (as the case may be) under Public Procurement (Preference to Make in India), Order 2017 (PPP-MII) and has value addition of .....%.

The details of the location (s) at which the local value addition is made is as under:

.....

We further confirm that in case we fail to meet the minimum local content/domestic value addition, the same shall be treated false information and AIESL will take action as per provision of tender document.

Signature and Seal of Authorized Signatory of bidder

Name of Authorized Signatory.....

Bidding Organization Name .....

**Date:  
Place:**

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

Technical Specification of Moveable tail  
dock code E-A/C

**Sub:** Design, Fabrication, supply, installation, testing and commissioning of Tail Dock for code E aircrafts, typically for A350, B787, B777-200 / 300ER aircrafts at Old Airport, Mumbai.

**TECHNICAL SPECIFICATIONS:**

Below are detailed specifications of Tail Dock for AIESL required to be commissioned at Old Airport, Mumbai. The Tail dock is required for Wide body aircrafts (Code E) like A350, B787, B777-200 / 300ER and is required to cover major portions of the aircraft tail portion such as horizontal stabilizer (LH and RH access from below), APU and entire vertical stabilizer LH & RH sides of Wide body aircrafts upto B777-300 ER. Following specifications and rough sketches/photographs will act as guidelines for design and fabrication of the Tail Dock. Tail dock should be designed to make it suitable for all aircraft types in Code E category.

Design aspect of the mobile self-driven and steerable tail stand is in the scope of the party. All safety features should be incorporated. Safety features should include anti-collision system by means of sensors which should cutoff the transmission and movement of the entire tail stand at a safe distance.

**Tail Stand should be designed to be self driven and steerable apart from the towing mechanism.** There should be provision to drive the Tail Stand remotely. Tail stand should have integrated drive mechanism and should have safety systems incorporated by means of sensors and auto cut off to avoid collision with aircraft surface and damage to aircraft.

Electrical supply and Pneumatic supply provision should be given on each working platforms on LH & RH sides at suitable locations.

**STANDARD CONDITIONS:**

**A. Material, Safety and Finishing:**

- The work involves fabrication of Tail Dock for wide body aircraft required for aircraft maintenance activities typically for A350, B787, B777-200 / 300ER aircrafts at Mumbai as per the given schematic drawings/images/photographs. These drawings/images are not manufacturing drawings, but represent the clear requirements with important dimensions. These involves providing suitable mobility system, steering system, fabrication of MS structure, Aluminum Chequered flooring, Wheels, Brakes, rubber buffers, signages, etc. The amount quoted by bidders shall include all such fabrication and other bought out items as shown in these images.  
The entire tail dock has to be self propelled with suitable mobility and steering system which can drive the entire weight of the structure.  
Prior to start of the fabrication, Bidders will have to prepare Fabrication and manufacturing drawings for approval by AIESL. All the drawings need to be approved by AIESL within 1 week.
- Bidders are requested to study the image/sketches/photographs thoroughly and clarify to fully understand the exact requirements, before submission of quotes. It will be bidders' responsibility to consider all the requirements. The bidders are advised to confirm all details of bought out items, required for each item. Tail dock shall be used for aircraft maintenance, these bought out items shall be of best quality and standards, to satisfaction of AIESL. No extra cost shall be admissible later on, on account of not understanding the requirements.
- Bidders shall prepare their own detailed fabrication drawings at their own cost. The bidder should obtain approval from AIESL before starting the fabrication / planning / procurement.

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The contractor will also obtain approval from AIESL for each of the bought-out items by sharing its make, tech details, test certificates and sample before procurement.

- Bidders shall ensure the structural stability for the designed load capacity, while preparing the shop fabrication drawings.
- Bidders shall be required to carry out unforeseen minor modifications at no extra cost, if found necessary at site during delivery of the Tail dock.
- Bidders are advised to stay in touch with AIESL during fabrication, so as to avoid any unwanted / rectification / double work. Any change in drawings / specifications / design / size / material / makes must have prior approval by AIESL.
- Fabrication work must have full welded rigid joints without any blow holes or slag deposit. Excess slag / weld must be ground off. In general there must not be any sharp edges / corners. All fasteners will be either tack welded or provided with lock nuts. All fasteners shall be hot dip galvanized or black phosphate coated.
- Complete work shall be executed with good engineering practices and workmanship.
- The surfaces which are to have paint finish, must be clear off all dust, oil, mill mark, weld, grease etc. Standard surface preparation and finishing practices will be employed. All such surfaces will receive two coats of rust inhibitor, after the previous coat has fully dried. The weldments shall receive minimum three coats of rust inhibitor. The paint finish will have final 2 coats of approved shade of synthetic enamel paint by spraying, without any brush marks, bristles, dripping etc. The moving parts will receive black and yellow stripes as indications for caution.
- The signages related to identification and safety, will be provided on 2 mm thick Aluminum sheet with stencil painted/printed in required shades. This exact text, size, colour and location of signages will be mutually decided.
- The Tail Dock must have Non-Slip Aluminum chequered sheet of 5 mm thickness.
- Load capacity on work platforms and staircases 125 Kgs./ Sq.mtr. as per ISO 14122.
- **Overall Factor of safety for each stand must be 2 minimum.**
- Total weight of Tail Dock structure is to be given (approximate) at the design stage.
- 39" Height Aluminum Safety Handrails (around 40 mm dia) (Removable/collapsible can be decided on-site while taking measurements along with AIESL personnel).
- 4" Height Aluminum Toe Board/Plate to be provided on all working Platforms.
- Tail dock should have suitable sized capacity wheels/tyres.
- Tail Dock should have manual screw mechanism stabilizers to secure the structure in parked position. **(Atleast qty 04 each suitable to sustain the weight of the structure)**
- Staircase of Tail Dock should be 9" height /riser non-slip Aluminium Extruded step with hand rails alloy as IS 63400 or equivalent.
- All the Steel parts will be in accordance to class 3. Majority of the steel items should be hot dipped galvanized as per ISO 1461.
- Material – The combination of material should be **Mild Steel (50%) and Aluminum (50%)** in proportion with respect to the weight of the Stand.

**Upto 20% change in material composition will be acceptable.**

Mild Steel - (As per IS 2062 Grade: E 250-BR/E 275 BR)

Aluminium - (IS 64430/1S 63400, Chg. Sheet Grade: AL MG 2.5 Tube Thickness 3 mm),

Fasteners Grade: Stainless Steel A2-70 /High tensile Bolt (10.9/8.8) with Geomet or HDG coating. (Bidder to specify the exact composition prior to fabrication).

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- Manual turntable towing provision (with towbar facility) in case of towing during mobility system failure is to be provided as part of the stand.
- High standard hydraulic actuator with hose burst fuse at the actuator end is to be provided (to prevent sudden collapse of the stairs if the hydraulic hose bursts).
- Rubber buffers (synthetic non marking buffers) 3-4" diameter (as per the size of the trestle) in a sliding channel at all vantage points to help avoid damage to aircraft body. Sample of rubber buffer is to be approved by AIESL before supplying and fixing on the stands. Colour of the rubber buffer should be white or grey.
- Quality/Conformity Certificate to be issued by the Quality Department of the Company.
- Exact specifications/dimensions to be taken on site on the aircraft available at Mumbai.
- Tail Dock should have minimum 5 years warranty from the date of commissioning with a commitment of AMC support thereafter. Self declaration for post warranty AMC support to be given by the party.
- Tail Stand will be inspected by AIESL personnel (Pre Delivery Inspection) at the Factory for approval. Transportation facility and all necessary facilitation shall be borne by the bidder for all such visits by AIESL personnel for Factory visits and PDI visits. Training for operation and maintenance to be given to AIESL.
- Toppling Calculations and FEA results (Finite Element Analysis) should be shown at Fabrication stage.
- Design acceptance criteria should be as per above points. Testing of the Stand to be done at actual on manufacturing site.
- Anchoring points for safety hooks at suitable positions are to be provided on working area platforms.
- Bill of Materials to be provided.
- Tail Dock to be painted with Two Coats of zinc Primer/Red Oxide and Two coats of Epoxy Paint. Name of the colour shade to be painted will be informed at the fabrication stage. Painting is to be carried out according to company requirements.
- Contractor has to submit actual working drawings and obtain approval from AIESL before fabrication.

**Technical clarity if any, can be sought upto one week before tender opening date.**

**B. Special Conditions:**

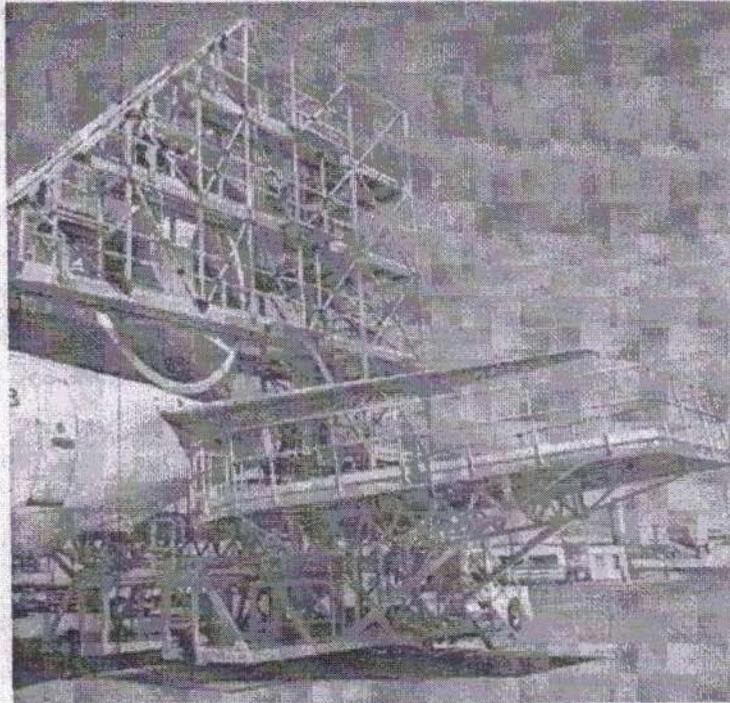
- The Delivery address for the Tail Dock is Old Airport, Mumbai. Detailed address will be shared at the time of delivery.
- AIESL officials may visit the contractor's manufacturing workshop to assess the capability, progress of work and resolve issues faced during fabrication, if any (Transportation of AIESL personnel should be arranged by the bidder). They will also carry out the Pre-delivery inspection and give approval for delivery to Mumbai. Most of the inspection of finished work, will be carried out by AIESL engineers at Contractor's works, so as to minimize the rework after delivery.
- The bidder shall have a minimum of three (3) years of relevant experience in the manufacturing and supply of Ground Support Equipment (GSE). The bidder must have successfully manufactured and supplied GSE to at least one Airline, Ground Handling Agency (GHA), or Aircraft Maintenance, Repair and Overhaul (MRO) organization during the last three years.

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Documentary evidence in the form of purchase orders, completion certificates, etc shall be submitted along with the bid.

**C. Tail Dock with images and approximate dimensions are as follows:**

Tail Dock Stand with Elevator Stand LH & RH (Approx Length - 43' X Width - 70' X Height - 60')



A self-supporting, modular tail dock system designed to provide safe, stable, and ergonomic access to the entire tail portion of the aircraft.

**Aircraft Compatibility**

Maximum aircraft type: Code E

Typical supported aircraft (indicative):

B777-200 / 200LR / 300 / 300ER

B787-8 / 9 / 10

A350

Maximum vertical stabilizer height to be covered: approx. 18.0 – 20.0 m

**Overall Dimensions & Reach**

**Maximum working height:** Around 20 m (from hangar floor level)

**Platform vertical travel (hydraulic):** Minimum 6.0 m adjustable stroke

**Horizontal reach toward aircraft tail:** Adjustable to suit varying tail profiles for Airbus and Boeing aircrafts.

**Clearance envelope:** Designed to maintain OEM-recommended aircraft clearances at all times.

**Structural Design**

**Construction type:** Modular, bolted or welded steel structure.

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**Material:** High-strength structural steel (IS 2062 / EN equivalent)  
**Finish:** Shot blasted and epoxy-zinc primed  
Final coat: polyurethane / epoxy paint (aviation hangar grade)  
**Load-bearing design factor:**  
Minimum **2 safety factor** on rated loads  
**Floor loading:**  
Suitable for standard hangar floor bearing capacity

#### **Hydraulic Work Platform System**

**Actuation:** Electro-hydraulic power pack  
**Hydraulic pressure:** Industrial aviation grade (with pressure relief valves)  
**Vertical movement:** Smooth proportional control  
**Emergency lowering:** Manual emergency descent (system provided)  
**Hydraulic hoses:** Fire-retardant, aviation-approved type with protective sleeving  
**Hydraulic oil:** hydraulic fluid of suitable grade

#### **Pneumatics provision**

**Pneumatic pipeline network:** Provision of 100psi pneumatic outlets with quick disconnect couplings at various locations on working platform. Source of pneumatics will be from Hangar floor till the topmost working platform.

#### **Platform Configuration**

##### **Working platform coverage:**

Full access to: Vertical stabilizer (both sides)  
Rudder area  
APU compartment  
Tail cone

**Platform type:** Multiple interconnected adjustable platforms  
**Platform width:** Around **900 mm** to 1000 mm clear walking space  
**Deck material:** Anti-skid aluminum / chequered steel  
**Load capacity:** Around **250 kg per platform section**  
**Toe-boards:** Minimum 100 mm height

#### **Access & Mobility**

**Access method:** Fixed stairways with anti-skid steps  
**Stair inclination:** Around 45° as per safety norms  
**Mobility:** Suitable system drive with steering mechanism for positioning on aircraft  
Laser or camera-assisted aircraft alignment

#### **Safety Features (Critical)**

**Guard rails:** 1100 mm height, three-rail system  
**Safety interlocks:** Prevent platform movement when personnel are on extended sections  
**Emergency stop buttons:** At ground level and on all working platforms  
**Overload protection:** Hydraulic and electrical overload cut-off  
**Anti-collision protection:** Sensors and Soft contact bumpers at aircraft interface  
**Fall protection points:** Anchor points for safety harness  
**Non-conductive protection:** Earthing and bonding provisions  
Foldable / contour-matching platform edges

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### **Electrical System**

**Power supply:** 415 V AC, 3-phase, 50 Hz

**Control voltage:** 12 V DC

**Control panel:** IP55 minimum

**Lighting:** LED work lights on platforms

### **Documentation & Deliverables**

GA drawings and layout

Load calculations and stability analysis

Electrical & hydraulic schematics

Operating & Maintenance Manual

Preventive maintenance schedule and checkpoints

Inspection and test certificates

Warranty: **Minimum 5 years**

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# Technical Specification of Moveable tail dock code C

2

**Sub:** Design, Fabrication, supply, installation, testing and commissioning of Tail Dock for code C aircrafts, typically for A320 family and B737 family aircrafts at Old Airport, Mumbai.

#### **TECHNICAL SPECIFICATIONS:**

Below are detailed specifications of Tail Dock for AIESL required to be commissioned at Old Airport, Mumbai. The Tail dock is required for Narrow body aircrafts (Code C) for A320 family and B737 family aircrafts and is required to cover major portions of the aircraft tail portion such as horizontal stabilizer (LH and RH access from below), APU and entire vertical stabilizer LH & RH sides of Narrow body aircrafts. Following specifications and rough sketches/photographs will act as guidelines for design and fabrication of the Tail Dock. Tail dock should be designed to make it suitable for all aircraft types in Code C category.

Design aspect of the mobile self-driven and steerable tail stand is in the scope of the party. All safety features should be incorporated. Safety features should include anti-collision system by means of sensors which should cutoff the transmission and movement of the entire tail stand at a safe distance.

**Tail Stand should be designed to be self driven and steerable apart from the towing mechanism.** There should be provision to drive the Tail Stand remotely. Tail stand should have integrated drive mechanism and should have safety systems incorporated by means of sensors and auto cut off to avoid collision with aircraft surface and damage to aircraft.

Electrical supply and Pneumatic supply provision should be given on each working platforms on LH & RH sides at suitable locations.

#### **STANDARD CONDITIONS:**

##### **A. Material, Safety and Finishing:**

- The work involves fabrication of Tail Dock for narrow body aircraft required for aircraft maintenance activities typically for A320 family and B737 family aircrafts at Mumbai as per the given schematic drawings/images/photographs. These drawings/images are not manufacturing drawings, but represent the clear requirements with important dimensions. These involves providing suitable mobility system, steering system, fabrication of MS structure, Aluminum Chequered flooring, Wheels, Brakes, rubber buffers, signages, etc. The amount quoted by bidders shall include all such fabrication and other bought out items as shown in these images.  
The entire tail dock has to be self propelled with suitable mobility and steering system which can drive the entire weight of the structure.  
Prior to start of the fabrication, Bidders will have to prepare Fabrication and manufacturing drawings for approval by AIESL. All the drawings need to be approved by AIESL within 1 week.
- Bidders are requested to study the image/sketches/photographs thoroughly and clarify to fully understand the exact requirements, before submission of quotes. It will be bidders' responsibility to consider all the requirements. The bidders are advised to confirm all details of bought out items, required for each item. Tail dock shall be used for aircraft maintenance, these bought out items shall be of best quality and standards, to satisfaction of AIESL. No extra cost shall be admissible later on, on account of not understanding the requirements.
- Bidders shall prepare their own detailed fabrication drawings at their own cost. The bidder should obtain approval from AIESL before starting the fabrication / planning / procurement.

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- The contractor will also obtain approval from AIESL for each of the bought-out items by sharing its make, tech details, test certificates and sample before procurement.
- Bidders shall ensure the structural stability for the designed load capacity, while preparing the shop fabrication drawings.
  - Bidders shall be required to carry out unforeseen minor modifications at no extra cost, if found necessary at site during delivery of the Tail dock.
  - Bidders are advised to stay in touch with AIESL during fabrication, so as to avoid any unwanted / rectification / double work. Any change in drawings / specifications / design / size / material / makes must have prior approval by AIESL.
  - Fabrication work must have full welded rigid joints without any blow holes or slag deposit. Excess slag / weld must be ground off. In general there must not be any sharp edges / corners. All fasteners will be either tack welded or provided with lock nuts. All fasteners shall be hot dip galvanized or black phosphate coated.
  - Complete work shall be executed with good engineering practices and workmanship.
  - The surfaces which are to have paint finish, must be clear off all dust, oil, mill mark, weld, grease etc. Standard surface preparation and finishing practices will be employed. All such surfaces will receive two coats of rust inhibitor, after the previous coat has fully dried. The weldments shall receive minimum three coats of rust inhibitor. The paint finish will have final 2 coats of approved shade of synthetic enamel paint by spraying, without any brush marks, bristles, dripping etc. The moving parts will receive black and yellow stripes as indications for caution.
  - The signages related to identification and safety, will be provided on 2 mm thick Aluminum sheet with stencil painted/printed in required shades. This exact text, size, colour and location of signages will be mutually decided.
  - The Tail Dock must have Non-Slip Aluminum chequered sheet of 5 mm thickness.
  - Load capacity on work platforms and staircases 125 Kgs./ Sq.mtr. as per ISO 14122.
  - **Overall Factor of safety for each stand must be 2 minimum.**
  - Total weight of Tail Dock structure is to be given (approximate) at the design stage.
  - 39" Height Aluminum Safety Handrails (around 40 mm dia) (Removable/collapsible can be decided on-site while taking measurements along with AIESL personnel).
  - 4" Height Aluminum Toe Board/Plate to be provided on all working Platforms.
  - Tail dock should have suitable sized capacity wheels/tyres.
  - Tail Dock should have manual screw mechanism stabilizers to secure the structure in parked position. **(Atleast qty 04 each suitable to sustain the weight of the structure)**
  - Staircase of Tail Dock should be 9" height /riser non-slip Aluminium Extruded step with hand rails alloy as IS 63400 or equivalent.
  - All the Steel parts will be in accordance to class 3. Majority of the steel items should be hot dipped galvanized as per ISO 1461.
  - Material – The combination of material should be **Mild Steel (50%) and Aluminum (50%)** in proportion with respect to the weight of the Stand.
- Upto 20% change in material composition will be acceptable.**
- Mild Steel - (As per IS 2062 Grade: E 250-BR/E 275 BR)
- Aluminium - (IS 64430/15 63400, Chg. Sheet Grade: AL MG 2.5 Tube Thickness 3 mm),
- Fasteners Grade: Stainless Steel A2-70 /High tensile Bolt (10.9/8.8) with Geomet or HDG coating. (Bidder to specify the exact composition prior to fabrication).
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- Manual turntable towing provision (with towbar facility) in case of towing during mobility system failure is to be provided as part of the stand.
- High standard hydraulic actuator with hose burst fuse at the actuator end is to be provided (to prevent sudden collapse of the stairs if the hydraulic hose bursts).
- Rubber buffers (synthetic non marking buffers) 3-4" diameter (as per the size of the trestle) in a sliding channel at all vantage points to help avoid damage to aircraft body. Sample of rubber buffer is to be approved by AIESL before supplying and fixing on the stands. Colour of the rubber buffer should be white or grey.
- Quality/Conformity Certificate to be issued by the Quality Department of the Company.
- Exact specifications/dimensions to be taken on site on the aircraft available at Mumbai.
- Tail Dock should have minimum 5 years warranty from the date of commissioning with a commitment of AMC support thereafter. Self declaration for post warranty AMC support to be given by the party.
- Tail Stand will be inspected by AIESL personnel (Pre Delivery Inspection) at the Factory for approval. Transportation facility and all necessary facilitation shall be borne by the bidder for all such visits by AIESL personnel for Factory visits and PDI visits. Training for operation and maintenance to be given to AIESL.
- Toppling Calculations and FEA results (Finite Element Analysis) should be shown at Fabrication stage.
- Design acceptance criteria should be as per above points. Testing of the Stand to be done at actual on manufacturing site.
- Anchoring points for safety hooks at suitable positions are to be provided on working area platforms.
- Bill of Materials to be provided.
- Tail Dock to be painted with Two Coats of zinc Primer/Red Oxide and Two coats of Epoxy Paint. Name of the colour shade to be painted will be informed at the fabrication stage. Painting is to be carried out according to company requirements.
- Contractor has to submit actual working drawings and obtain approval from AIESL before fabrication.

**Technical clarity if any, can be sought upto one week before tender opening date.**

**B. Special Conditions:**

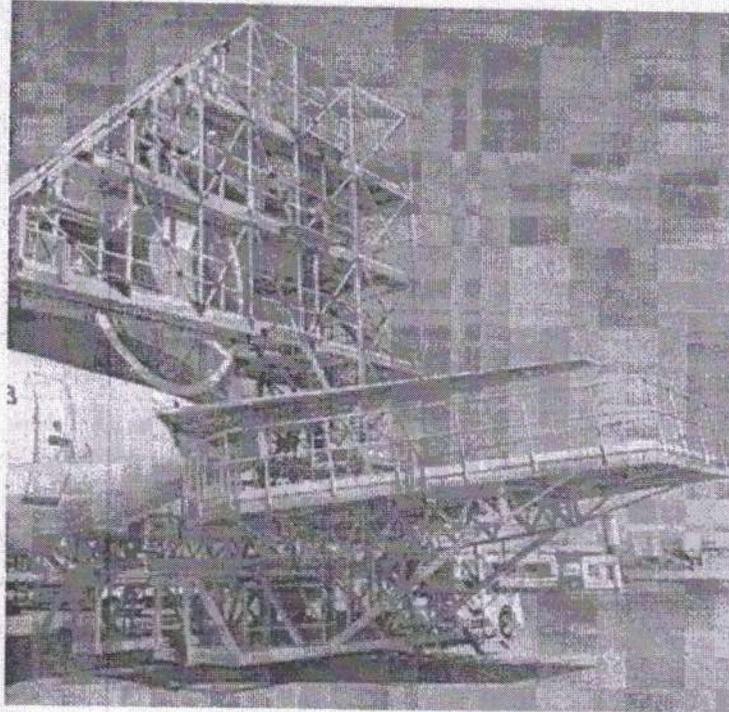
- The Delivery address for the Tail Dock is Old Airport, Mumbai. Detailed address will be shared at the time of delivery.
- AIESL officials may visit the contractor's manufacturing workshop to assess the capability, progress of work and resolve issues faced during fabrication, if any (Transportation of AIESL personnel should be arranged by the bidder). They will also carry out the Pre-delivery inspection and give approval for delivery to Mumbai. Most of the inspection of finished work, will be carried out by AIESL engineers at Contractor's works, so as to minimize the rework after delivery.
- The bidder shall have a minimum of three (3) years of relevant experience in the manufacturing and supply of Ground Support Equipment (GSE). The bidder must have successfully manufactured and supplied GSE to at least one Airline, Ground Handling Agency (GHA), or Aircraft Maintenance, Repair and Overhaul (MRO) organization during the last three years.

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Documentary evidence in the form of purchase orders, completion certificates, etc shall be submitted along with the bid.

**C. Tail Dock with images and approximate dimensions are as follows:**

Tail Dock Stand with Elevator Stand LH & RH (Approx Length - 45' X Width - 50' X Height - 40')



A self-supporting, modular tail dock system designed to provide safe, stable, and ergonomic access to the entire tail portion of the aircraft.

**Aircraft Compatibility**

Maximum aircraft type: Code C - typically for A320 family and B737 family aircrafts

Maximum vertical stabilizer height to be covered: approx. 14 m

**Overall Dimensions & Reach**

**Maximum working height:** Around 14 m (from hangar floor level)

**Platform vertical travel (hydraulic):** Minimum 6.0 m adjustable stroke

**Horizontal reach toward aircraft tail:** Adjustable to suit varying tail profiles for Airbus and Boeing aircrafts.

**Clearance envelope:** Designed to maintain OEM-recommended aircraft clearances at all times.

**Structural Design**

**Construction type:** Modular, bolted or welded steel structure.

**Material:** High-strength structural steel (IS 2062 / EN equivalent)

**Finish:** Shot blasted and epoxy-zinc primed

Final coat: polyurethane / epoxy paint (aviation hangar grade)

**Load-bearing design factor:**

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Minimum **2 safety factor** on rated loads

**Floor loading:**

Suitable for standard hangar floor bearing capacity

**Hydraulic Work Platform System**

**Actuation:** Electro-hydraulic power pack

**Hydraulic pressure:** Industrial aviation grade (with pressure relief valves)

**Vertical movement:** Smooth proportional control

**Emergency lowering:** Manual emergency descent (system provided)

**Hydraulic hoses:** Fire-retardant, aviation-approved type with protective sleeving

**Hydraulic oil:** hydraulic fluid of suitable grade

**Pneumatics provision**

**Pneumatic pipeline network:** Provision of 100psi pneumatic outlets with quick disconnect couplings at various locations on working platform. Source of pneumatics will be from Hangar floor till the topmost working platform.

**Platform Configuration**

**Working platform coverage:**

Full access to: Vertical stabilizer (both sides)

Rudder area

APU compartment

Tail cone

**Platform type:** Multiple interconnected adjustable platforms

**Platform width:** Around **900 mm** to 1000 mm clear walking space

**Deck material:** Anti-skid aluminum / chequered steel

**Load capacity:** Around **250 kg per platform section**

**Toe-boards:** Minimum 100 mm height

**Access & Mobility**

**Access method:** Fixed stairways with anti-skid steps

**Stair inclination:** Around 45° as per safety norms

**Mobility:** Suitable system drive with steering mechanism for positioning on aircraft  
Laser or camera-assisted aircraft alignment

**Safety Features (Critical)**

**Guard rails:** 1100 mm height, three-rail system

**Safety interlocks:** Prevent platform movement when personnel are on extended sections

**Emergency stop buttons:** At ground level and on all working platforms

**Overload protection:** Hydraulic and electrical overload cut-off

**Anti-collision protection:** Sensors and Soft contact bumpers at aircraft interface

**Fall protection points:** Anchor points for safety harness

**Non-conductive protection:** Earthing and bonding provisions

Foldable / contour-matching platform edges

**Electrical System**

**Power supply:** 415 V AC, 3-phase, 50 Hz

**Control voltage:** 12 V DC

**Control panel:** IP55 minimum

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**Lighting:** LED work lights on platforms

**Documentation & Deliverables**

- GA drawings and layout
- Load calculations and stability analysis
- Electrical & hydraulic schematics
- Operating & Maintenance Manual
- Preventive maintenance schedule and checkpoints
- Inspection and test certificates
- Warranty: **Minimum 5 years**

*Alan*

# Technical Specification of Tow tug-EV.

4



## TECHNICAL SPECIFICATIONS

### SUBJECT: PROCUREMENT OF ELECTRIC TOW TUG (15 Ton)

**Note:** The equipment offered shall conform to the following **minimum technical specifications**. Any deviation must be clearly indicated by the bidder, along with detailed justification and supporting documents.

#### 1. GENERAL SPECIFICATIONS

S. No.	Description	Units of Measurement	Specification / Requirement	Bidder's Compliance (Yes/No)
1	Drive Type		Electric	
2	Rated Capacity minimum	kg	15,000	
3	Maximum Drawbar Pull	N	10,500 N	
4	Maximum Gradeability (Unladen / Laden)	%	16 / 5	
5	Speed (Unladen / Laden)	km/h	25 / 15	
6	Overall Dimensions (L x W x H)	mm	Approx: 2900x1300 x 2000	
7	Turning Radius (Front)	mm	Approx: 3000	

#### 2. CONSTRUCTION & COMPONENTS

Component	Specification / Requirement	Bidder's Compliance (Yes/No)
Chassis	Single plate chassis construction with robust design ensuring high strength, resistance, and performance.	
Cabin	Ergonomically designed operator cabin ensuring ride comfort, safety, and 360° aerial visibility.	
Motors	Powerful AC motor providing high torque in all operational	

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Component	Specification / Requirement	Bidder's Compliance (Yes/No)
	conditions.	
Lithium-Ion Battery	80V, 375Ah Li-Ion battery providing high efficiency and longer operational duration. (Capable of providing a run time of not less than 8 hours under normal operating conditions.)	
Tow Hitch	Manual and semi-automatic tow hitch ensuring operator comfort and improved productivity.	
Tyres	Impact-resistant solid tyres offering longer life and lower wear compared to pneumatic tyres.	

### 3. BATTERY OPTIONS

Battery Type	Voltage (V)	Capacity (Ah)	Bidder's Compliance (Yes/No)
Li-Ion	80V	375 AH (capable of providing a run time of not less than 8 hours under normal operating conditions.)	

### 4. SUSPENSION

Position	Type	Bidder's Compliance (Yes/No)
Front	Leaf spring with shock absorbers	
Rear	Leaf spring with shock absorbers	

### 5. BRAKES

Type	Specification / Requirement	Bidder's Compliance (Yes/No)
Service Brake	Hydro-mechanical	
Service Brake – Front	Disc/drum	

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Type	Specification / Requirement	Bidder's Compliance (Yes/No)
Service Brake – Rear	Disk/Drum	
Parking Brake	Mechanical	

## 6. STEERING

Description	Specification / Requirement	Bidder's Compliance (Yes/No)
Type	Power steering	

## 7. PROVISIONS / ADDITIONAL FEATURES

S. No.	Description	Specification / Requirement	Bidder's Compliance (Yes/No)
1	Tyres	Inbuilt solid tyres for puncture-free operation.	
2	Operator Visibility	Zero-blind-spot windshield ensuring full operator visibility.	
3	Battery Swapping	battery swapping provision for allowing quick replacement within minutes.	
4	Drive System	AC drive system paired with battery ensuring <b>Min. 8 hours</b> runtime per charge.	
5	Gradeability	Higher gradeability suitable for inclined surface operations.	
6	Beacon Light	The electric tug must be provided with a <b>beacon light</b> , as it will be exclusively operated within airport premises. The beacon light shall have a flashing frequency suitable to airport operational requirements, ensuring adequate visibility and compliance with airport safety regulations.	

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## 8. OPTIONAL REQUIREMENTS

S. No.	Description	Specification / Requirement	Bidder's Compliance (Yes/No)
1	Customised Colour	Equipment to be painted in colour as per customer requirement along with the AIESL Logo.	
2	Service Support	OEM / Vendor to provide after-sales service, maintenance, and spare support.	

### Standard Conditions

- Standard Warranty period should be Two year after commissioning of equipment.
- Battery warranty should be min Five year after commissioning of equipment and should be of reputed brand.
- Comprehensive Maintenance Contract (CMC) – Three years CMC may be awarded, post completion of standard warranty period of two years.
- Visible and prominently sized AIESL logo shall be painted or printed on both the left and right sides of the equipment or at place as advised by Engineering In charge.
- Copies of Fast-Moving Items, Spare Parts Catalogue, Operator's Manuals, Electrical Circuit Diagram, Maintenance and Overhaul manual of all components to be provided. Two Hard copies & one soft copy to be provided for each supplied unit.
- AIESL 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. Non adherence of this clause may lead to cancellation of P.O and AIESL reserves the right to withhold the invoice for that shipment.
- Every supply should be accompanied by a Quality Assurance Certificate (QAC) indicating that the goods so supplied are in conformity with the specifications given in the Purchase Order.
- Insitu training of atleast 2 days to be provided (Operation and Maintenance)

*P. Misal*  
(P. MISAL) *Asst.*  
(A. CHITARI)

Prepared by,



Approved by,

**अ. वि. सावंत / A. V. SAVANT**

बेस अनुरक्षण प्रबंधक / BASE MAINTENANCE MANAGER  
ए.आय.एस.एल., फ्लीट-बी / AI Engineering Services Ltd. FLEET-B.

# Technical Specification of Tow tug-Diesel

5

## DIESEL TOW TRUCK



### 1. General Application

- **Intended Use:** Towing of Ground Support Equipment (GSE) within hangars, apron and airside service roads
- **Not Suitable For:** Aircraft pushback or aircraft towing
- **Operation Environment:** Indoor hangars and outdoor apron areas

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### 2. Engine & Powertrain

- **Engine Type:** Diesel, water-cooled, 4-stroke
- **Emission Compliance:**
  - Minimum BS-IV / CPCB-II (India) or
  - EU Stage IIIA / EPA Tier 3 or higher
- **Fuel Tank Capacity:** Minimum 40 litres
- **Transmission:**
  - Fully automatic / hydrostatic / powershift
  - Forward & reverse with smooth directional change
- **Drive Type:** 4WD

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### 3. Towing & Performance

- **Rated Drawbar Pull:** Minimum 2,000daN (4,400lbs)
- **Maximum Towing Capacity (GSE):**
  - On flat surface: Minimum 20 tonnes
- **Maximum Travel Speed:**
  - Laden:  $\leq 15$  km/h
  - Unladen:  $\leq 25$  km/h
- **Turning Radius:**  $\leq 4.5$  metres (kerb-to-kerb)

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### 4. Chassis & Construction

- **Chassis Type:** Heavy-duty welded steel frame with enclosed driver cabin
- **Axles:** Industrial heavy-duty axles
- **Suspension:**
  - Front: Rigid or leaf spring
  - Rear: Rigid axle
- **Ground Clearance:** Around 150 to 180 mm
- **Tyres:**
  - Solid rubber or pneumatic tyres
  - Suitable for apron surfaces

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*Michael*  
*John*

## 5. Braking & Steering

- **Service Brakes:** Front and rear brake with dry discs and calipers, foot operated
  - **Parking Brake:** Mechanical or spring-applied fail-safe type
  - **Steering:**
    - Power-assisted hydraulic steering
- 

## 6. Electrical System

- **System Voltage:** 12V DC
  - **Battery:** Maintenance-free heavy-duty battery, Minimum 80Ah
  - **Lighting:**
    - LED headlights
    - Tail lights, brake lights, turn indicators
    - Top Flashing beacon (Amber beacon with LED strobe), Reverse light & buzzer
- 

## 7. Operator Cabin & Ergonomics

- **Cab Type:** Enclosed
  - **Operator Seats:** Cushioned seat with seat belt for both Driver and co-driver.
  - **Controls:** Ergonomically positioned joystick/levers
  - **Instrumentation:**
    - Speedometer
    - Engine RPM
    - Fuel level
    - Hour meter
    - Warning lamps (oil pressure, temperature, battery, brake, etc.)
- 

## 8. Safety Features

- Emergency stop switch
  - Non-slip steps and handholds
  - Rear-view mirrors (both sides)
  - Fire extinguisher bottle with mounting provision
  - Wheel chocks
  - Hooking provision for lifting purpose.
  - **Ingress Protection:** Minimum IP54 for electrical components
  - Catalytic exhaust muffler/spark arrestor for hangar use
  - Anti-corrosion paint
- 

## 9. Coupling & Hitch Arrangement

- **Tow Hitch Type:**
  - Standard pin type and multi-height hitch
- **Hitch Height:** Adjustable to suit various GSE

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## 10. Dimensions & Weight (Typical)

- **Overall Length:** Around 3,000 mm
- **Overall Width:** Around 1,500 mm
- **Overall Height:** Around 2,000 mm
- **Unladen Weight:** 3,000 – 5,000 kg

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## 11. Documentation & Compliance

- OEM technical literature and drawings
- Operation & Maintenance Manual
- Spare parts catalogue
- Type test / load test certificates
- After-sales support within India

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### Standard Conditions:

- a) Standard Warranty period should be Two year after commissioning of equipment.
- b) Comprehensive Maintenance Contract (CMC) – Three years CMC may be awarded, post completion of standard warranty period of two years.
- c) Visible and prominently sized AIESL logo shall be painted or printed on both the left and right sides of the equipment or at place as advised by Engineering In charge.
- d) Copies of Fast-Moving Items, Spare Parts Catalogue, Operator's Manuals, Electrical Circuit Diagram, Maintenance and Overhaul manual of all components to be provided. Two Hard copies & one soft copy to be provided for each supplied unit.
- e) AIESL 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. Non adherence of this clause may lead to cancellation of P.O and AIESL reserves the right to withhold the invoice for that shipment.
- f) Every supply should be accompanied by a Quality Assurance Certificate (QAC) indicating that the goods so supplied are in conformity with the specifications given in the Purchase Order.
- g) Insitu training of atleast 2 days to be provided (Operation and Maintenance).

*P. Misal*

(P. MISAL)

*A. Chitari*

(A. CHITARI)

Prepared by,

*AS*

Approved by,

**अ. वि. सावंत / A. V. SAVANT**

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ए.आय.एस.एल., फ्लीट-बी / AI Engineering Services Ltd. FLEET-B.

# Technical Specification of Forklift 5 Ton

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**Recommended technical specifications for a 5-ton (5,000 kg) Diesel Forklift suitable for Aviation MRO (Maintenance, Repair & Overhaul) operations, considering hangar safety, precision handling and heavy aircraft component movement.**

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### 1. General Requirements

- **Type:** Diesel Engine Operated Forklift
- **Rated Capacity:** 5,000 kg @ standard load center
- **Load Centre Distance:** 600 mm
- **Duty Cycle:** Heavy-duty, continuous industrial operation

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### 2. Engine & Powertrain

- **Engine Type:** 4-cylinder, diesel engine
- **Emission Compliance:**
  - BS-IV / BS-V (India) or
- **Rated Power Output:** 50 kW to 60 kW
- **Transmission:**
  - Powershift / Automatic transmission
  - Forward & Reverse
- **Drive Type:** 2WD (Heavy-duty industrial axle)

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### 3. Mast & Fork Assembly

- **Mast Type:**
  - Triplex mast (preferrable)
- **Maximum Lift Height:** 4,500 – 6,000 mm
- **Free Lift:** 1,000 mm to 2,000 mm
- **Fork Size:**
  - Length: 1,500 – 1,800 mm
  - Width: ~150 mm
  - Thickness: ~65 mm

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#### 4. Dimensions & Weight

- Overall Length (with forks): ~5,200 mm
- Overall Width: ~2,200 mm
- Overall Height (at overhead guard):  $\leq 2,600$  mm
- Ground Clearance: Around 175 mm
- Service Weight: Approx. 9,500 kg

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#### 5. Tyres & Braking

- Tyres:
  - Solid / Super-elastic tyres (non-marking preferred for hangars)

Front Tyres: Dual or wide solid tyres  
Rear Tyres: Solid tyres
- Brakes:
  - Service Brake: Pneumatic operation, drum brakes
  - Parking Brake: Spring operated pneumatic release

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#### 6. Hydraulic System

- Hydraulic Controls:
  - Fingertip / joystick type

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#### 7. Safety & Aviation-Specific Features

- Reverse alarm
  - LED working lights (front & rear)
  - Suitable Fire extinguisher with hooking provision
  - Detachable Overhead guard
  - Load backrest extension
  - Emergency engine shutdown
  - Spark arrestor / muffler suitable for aviation environment
  - Anti-slip steps and handholds
  - Extended forks – to be given/supplied mandatorily.
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## 8. Operator Cabin & Ergonomics

- **Cabin Type:** Open with shed
- **Steering:** Rear wheel Hydrostatic power steering
- **Instrumentation:**
  - Engine temperature
  - Oil pressure
  - Fuel level
  - Hour meter
  - Warning indicators

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## 9. Environmental & Hangar Compliance

- Low exhaust emissions with vertical exhaust (preferred)
- Heat shielding near exhaust and engine
- Drip trays / engine belly pan to prevent oil spillage

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## 10. Documentation & Compliance

- OEM Test Certificate
- Load Test Certificate
- Compliance with Factory Acceptance Test (FAT) report
- Operation & Maintenance Manual
- Spare parts catalogue

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## 11. Warranty & Support

- **Warranty:** Minimum 24 months or 5,000 operating hours
- **After-Sales Support:**
  - Pan-India service network
  - Availability of spares for minimum 10 years
  - CAMC Service Support after warranty period for three years

### Standard Conditions

- a) Standard Warranty period should be Two year after commissioning of equipment.
- b) Comprehensive Maintenance Contract (CMC) – Three years CMC may be awarded, post completion of standard warranty period of two years.

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- c) Visible and prominently sized AIESL logo shall be painted or printed on both the left and right sides of the equipment or at place as advised by Engineering In charge.
- d) Copies of Fast-Moving Items, Spare Parts Catalogue, Operator's Manuals, Electrical Circuit Diagram, Maintenance and Overhaul manual of all components to be provided. Two Hard copies & one soft copy to be provided for each supplied unit.
- e) AIESL 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. Non adherence of this clause may lead to cancellation of P.O and AIESL reserves the right to withhold the invoice for that shipment.
- f) Every supply should be accompanied by a Quality Assurance Certificate (QAC) indicating that the goods so supplied are in conformity with the specifications given in the Purchase Order.
- g) Insitu training of atleast 2 days to be provided (Operation and Maintenance)

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*A. Chitari*

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# Technical Specification of Chair Lift.

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Technical specification for an automobile chassis-mounted Chair Hi-Lift, covering A320 to B777 aircraft, with rear tail-gate operation for hangar floor usage.

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## TECHNICAL SPECIFICATIONS

### AUTOMOBILE CHASSIS MOUNTED CHAIR HI-LIFT

(For Aircraft Cabin Item Removal & Loading – Aviation MRO)

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#### 1. General Requirements

- Equipment shall be **automobile chassis mounted Chair Hi-Lift** specifically designed for **aircraft cabin maintenance and modification activities**.
- Intended use: **Removal, loading, and transportation of aircraft cabin items** such as passenger seats, galleys, sidewall panels, bins, monuments and cabin equipment.
- Suitable for **narrow-body to wide-body aircraft** ranging from **Airbus A320 family up to Boeing B777 series**.
- Equipment shall be suitable for **indoor hangar operations**, smooth concrete floors and aircraft maintenance environments.
- **Rear tail-gate loading/unloading operation** is mandatory for easy movement of cabin items on trolleys through hangar floor surface.

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#### 2. Chassis & Vehicle

- **Type:** Automobile truck chassis mounted
- **Drive:** 4x2 (minimum) suitable for hangar operations
- **Engine:** Diesel, BS-VI compliant (or latest emission norms applicable)
- **Power Steering:** Mandatory
- **Transmission:** Manual or Automatic
- **Braking System:**
  - Air brakes / Hydraulic brakes with parking brake
  - Emergency braking system
- **Tyres:** Industrial / airport-approved, non-marking preferred
- **Turning Radius:** Suitable for maneuvering inside aircraft hangars
- **Cabin:** Enclosed driver cabin

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#### 3. Load Platform / Chair Lift Body

- **Platform Type:** Enclosed chair transport body
- **Platform Material:**
  - High-strength steel/aluminium structure
  - Anti-corrosion treatment

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- Anti-skid chequered floor
- **Platform Dimensions (Approx.):**
  - Length: 4,000–5,000 mm
  - Width: 2,200–2,500 mm
  - Height (internal): Minimum 2,200 mm
- **Rated Payload Capacity:**
  - Minimum 1,500–2,000 kg
- **Load Restraints:**
  - Tie-down points
  - Safety rails / stanchions for securing cabin items
- **Internal Lighting:** LED lights inside van load body

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#### 4. Lifting System

- **Lift Mechanism:** Hydraulic scissor lift / vertical mast lift system
- **Lift Capacity:** Minimum 2,000 kg
- **Maximum Working Height:**
  - Suitable to align with aircraft cabin doors of A320 up to B777
  - Approx. 5,000–6,000 mm platform height
- **Minimum Platform Height:**
  - Near ground level for hangar loading (around 2,500 mm)
- **Lift Controls:**
  - Proportional hydraulic controls
  - Controls provided at operator panel and rear platform
- **Hydraulic System:**
  - Heavy-duty hydraulic pump
  - Pressure relief valves
  - Hose burst protection

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#### 5. Rear Tail Gate (Mandatory)

- **Type:** Hydraulic tail-lift / foldable tail gate
- **Location:** Rear side of chair hi-lift body
- **Operation:**
  - Hydraulic powered
  - Push-button / lever operated
- **Tail Gate Capacity:** Minimum 1,000–1,500 kg
- **Tail Gate Platform:**
  - Anti-skid surface
  - Suitable for cabin trolleys and seat dollies
- **Purpose:**
  - Loading and unloading of cabin items directly from hangar floor level
  - Seamless movement of equipment without lifting manually

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- **Safety Features:**

- Safety toe guards
- Auto-lock during travel
- Emergency stop

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## 6. Safety Features

Emergency stop buttons at multiple locations  
Platform safety rails and guard chains  
Non-slip flooring on platform and tail gate  
Hydraulic overload protection  
Wheel chocks and hydraulic stabilizers  
Flashing beacon light  
Reverse buzzer and alarm  
Fire extinguisher  
Reflective markings as per airport safety norms

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## 7. Controls & Instrumentation

Intuitive operator control panel  
Lift height indicators  
Hydraulic pressure gauges  
Interlock system to prevent lift operation during vehicle movement  
Battery isolation switch

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## 8. Electrical System

12V electrical system  
LED work lights (rear and side)  
Cabin lights and warning indicators  
Weather-proof wiring harness

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## 9. Paint & Finish

Anti-corrosion primer and epoxy paint  
Colour: Decided at a later stage  
Safety decals and operating instructions displayed

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## 10. Compliance & Standards

Compliance with:  
OEM safety standards  
Airport / DGCA / EASA / ICAO safety guidelines (as applicable)  
Equipment shall be suitable for use in **restricted airport areas**

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## 11. Documentation & Support

- Operator and maintenance manuals
  - Preventive maintenance schedule and checkpoints
  - Hydraulic and electrical schematics
  - Spare parts list
  - Warranty: Minimum **2 years** from date of commissioning
  - After-sales support and service network in India
- 

### Standard Conditions

- a) Standard Warranty period should be Two year after commissioning of equipment.
- b) Comprehensive Maintenance Contract (CMC) – Three years CMC may be awarded, post completion of standard warranty period of two years.
- c) Visible and prominently sized AIESL logo shall be painted or printed on both the left and right sides of the equipment or at place as advised by Engineering In charge.
- d) Copies of Fast-Moving Items, Spare Parts Catalogue, Operator's Manuals, Electrical Circuit Diagram, Maintenance and Overhaul manual of all components to be provided. Two Hard copies & one soft copy to be provided for each supplied unit.
- e) AIESL 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. Non adherence of this clause may lead to cancellation of P.O and AIESL reserves the right to withhold the invoice for that shipment.
- f) Every supply should be accompanied by a Quality Assurance Certificate (QAC) indicating that the goods so supplied are in conformity with the specifications given in the Purchase Order.
- g) Insitu training of atleast 2 days to be provided (Operation and Maintenance)

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Technical Specification of Scissor  
platform-15 Mtr and Scissor platform-12  
Mtr

29



## Scissor Platform

### Scope & Description of Work in brief:

1. Supply of Electric Scissor Lift 15 mtrs, Qty -01 and
2. Supply of Electric Scissor Lift 12 mtrs, Qty -01

For AIESL, Old Airport, Mumbai as per specifications given below:

### Part 1

#### ELECTRIC SCISSOR LIFT for 15 mtrs.

##### Required Specifications:

1. Max Working Height - 15 metres or above,
2. Platform Length – Approx 2.6 metres,
3. Platform Width – Approx 1.15 metres,
4. Load Capacity – Approx 230 kgs or above,
5. Platform Occupants – maximum 2 (Indoor) or above,
6. Deck Extension - Required,
7. Deck Extension Load capacity - 95 kgs or above,
8. Deck Extension Length - 0.9 feet or above,
9. Side Railing- 3ft height or above and collapsible type.
10. Scissor Lifts Types - Mobile,
11. Max Platform Raised/Elevated Height - 13.5 metres or above,
12. Operation - Indoor & Outdoor,
13. Power Source - Battery, Self Driven, 2 WD
14. Lifting System - Hydraulic Cylinder,
15. Battery – Atleast 48 V Li-Ion maintenance free battery.
16. Battery Capacity - 150 AH or above (for 08 to 10 hrs usage),
17. Drive and Steer Model - 2 WD,
18. Brake - 2 Rear Wheel,
19. Emergency Stop Button - Must,
20. Stabilizer / outriggers - Must,
21. Operation Switches (in basket also) - Joystick/Toggle Switches/Push Button,
22. No of Wheels - 4,
23. Battery charger (inbuilt) - Must,
24. Charging cable 08 mtrs with power plug - Must,
25. Mat and safety harness in platform - Must

### Scope & Description of Work in brief:

Electric Scissor Lift 12 mtrs, Qty -01  
for AIESL, Old Airport, Mumbai as per specifications given below:

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## Part 2

1. Max Working Height - 12 metres or above,
2. Max Platform Raised/Elevated Height - 10 metres or above,
3. Platform Length - 2 metres or above,
4. Platform Width - 1 metres or above,
5. Specific Load Capacity - 230 kgs or above,
6. Platform Occupants - 2,
7. Deck Extension - Yes,
8. Deck Extension Load capacity - 90 kgs or above,
9. Deck Extension Length - 0.9 feet,
10. Side Railings-3 ft height collapsible type.
11. Scissor Lifts Types - Mobile,
12. Operation - Indoor and Outdoor,
13. Power Source - Battery, Self Driven 2 WD
14. Lifting System - Hydraulic Cylinder,
15. Battery – Atleast 24 V Li-Ion maintenance free battery.
16. Battery Capacity - 150 AH or above (for 08 to 10 hrs usage),
17. Drive and Steer Model - 2 WD,
18. Brake - 2 Rear Wheel,
19. Emergency Stop Button - Must,
20. Stabilizer / Out riggers - Must,
21. Operation Switches (in platform also) - Joystick/Toggle Switches/Push Button,
22. No of Wheels - 4,
23. Battery charger (inbuilt) - Must,
24. Charging cable 08 mtrs with power plug - Must,
25. Mat and safety harness in platform - Must

## Common for Part 1 and Part 2

- a) Standard Warranty period should be Two year after commissioning of equipment.
- b) Battery warranty should be min Five year after commissioning of equipment and should be of reputed brand.
- c) Comprehensive Maintenance Contract (CMC) – Three years CMC may be awarded, post completion of standard warranty period of two years.
- d) Visible and prominently sized AIESL logo shall be painted or printed on both the left and right sides of the Scissor Lifts or at place as advised by Engineering In charge.
- e) Copies of Fast-Moving Items, Spare Parts Catalogue, Operator's Manuals, Electrical Circuit Diagram, Maintenance and Overhaul manual of all components to be provided. Two Hard copies & one soft copy to be provided for each supplied unit.
- f) Insitu training of at least 2 days to be provided (Operation and Maintenance)
- g) AIESL 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. Non adherence of

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this clause may lead to cancellation of P.O and AIESL reserves the right to withhold the invoice for that shipment.

- a) Every supply should be accompanied by a Quality Assurance Certificate (QAC) indicating that the goods so supplied are in conformity with the specifications given in the Purchase Order.
- b) Scissor Lifts should have followed Standard Configurations like
  - i. Proportional Control
  - ii. Inter-lock door on Platform
  - iii. Extension Platform
  - iv. Automatic Brake System
  - v. Chassis Warning Light
  - vi. Battery Charging Indicator
  - vii. Pothole Protection System
  - viii. Scissor Lifts equipped with water cover protection on power to protection.
  - ix. Scissor Lifts should follow ISO 3691-1.

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