

**INDIAN AIR FORCE INVITES
EXPRESSION OF INTEREST (EoI)**

FOR

**MAJOR OVERHAUL AND TOTAL TECHNICAL LIFE EXTENSION OF RUSSIAN
ORIGIN IL-76MD AIRCRAFT OF INDIAN AIR FORCE**

**(DIRECTORATE OF ENG T(R2))
AIR HQ (VB)**

EoI Reference SI No: EoI No.4/Air HQ/82886/7/AC (EoI)/Eng D1(T) /2022-23

Introduction

1. Directorate of Eng T(R2), Air HQ (Vayu Bhawan), on behalf of The Ministry of Defence, Government of India, invites **Expression of Interest (EoI)** for '**Major Overhaul (MOH) and Total Technical Life Extension (TTLE) of Russian Origin IL-76MD Aircraft of Indian Air Force**' from reputed Indian firms based in India having technical and financial capability, infrastructure and experience to execute the project. The project will involve development of facilities, certification of airworthiness and delivery within strict timelines.

Details of work

2. **Scope of Work.** The scope of work includes: -

(a) Major Overhaul (MOH) and Total Technical Life Extension (TTLE), within Indian territory, of Russian origin (M/s OJSC IL make) IL-76MD aircraft (of 180-ton Max All Up Weight category). Scope of Work (SoW) / Schedule of Requirement (SoR) is placed at **Annexure-I** to EoI.

(b) The task encompasses development of requisite Jigs, Fixtures, Test Bench facilities, their installation, commissioning, including repair and overhaul facilities for subject aggregates, packing and dispatch facilities etc.

(c) It is to be noted that the testing of overhauled aircraft would be undertaken in accordance with pre-specified procedure by the deemed OEM. Post-MOH & TTLE, the ac should be able to satisfy all the operational parameters as specified in the Flight manual issued by the OEM.

3. **In the First Phase.** The interested / willing Indian Firms / Companies / Vendors would need to study the function and MOH& TTLE / testing requirement in respect of each line, so as to conceptualise the facility required to be set-up.

4. **In the Second Phase.** The interested / willing Indian Firms / Companies / Vendors have to independently carry out all the mentioned activities, within pre-stipulated timelines. The overall quality control would be exercised by RCMA (CEMILAC) and DGAQA.

5. **Airworthiness Requirements.** Meeting allairworthiness requirements shall be the responsibility of the firm with due certification from RCMA (CEMILAC) and DGAQA.
6. **Place, Time and Date of Pre-Bid Meeting.** Pre-bid meeting will be in the form of joint evaluation/clarification of proposals submitted by industrial partners with participation of industrial bodies. This meeting will shortlist eligible proposals which will determine the scope of Tender Enquiry. Meeting would be held on **03 Mar 23 at 1400 hrs at Air HQ (VB), New Delhi.** For queries about Eol please contact **011-23010231 (Extn 5259 / 5273 / 7260)between 0930 hrs to 1700 hrs till 02 Mar 23.** (e-mail: manager.11@gov.in). Technical details are available at Dte of Eng T(R2) at Air HQs. Visit of the vendors to the facilities, if required, shall be co-ordinated and facilitated by this HQ.
7. **Place, Time and Date of for response to Eol submission** The response to Eol to be submitted either in Tender Box mentioned below or on E-mail id manager.11@gov.in on or before **1100 hrs on 10 Mar 23** and opening of bid time is **1200 hrs at 10 Mar 23**. Vendor Information is to be filled as per **Annexure-II**.

**TENDER BOX
ACAS (Eng A)
AIR HQ (VAYU BHAVAN)
RAFI MARG,
NEW DELHI-110106
INDIA**

Eligibility Criteria

8. Only Indigenous firms based in India and possessing experience in Design, development, repair, overhaul and certification of electronic/ electro-mechanical / mechanical/ electrical/ aero engine/ avionics used in aircraft whose proposals have been shortlisted by the proposal review committee would be eligible. Interested firms may also enter into 'Joint Ventures' with other firms who are capable of undertaking similar tasks, including foreign OEMs under umbrella of Inter-Governmental Agreement or otherwise.
9. Following documents/evidence are expected to be submitted by interested firms willing to undertake IAF task in endeavour for '**Self Reliance in Maintenance**':-
- (a) **Financial Capacity.** Details of financial capability of interested firms in the form of Balance Sheet and ITR of last three financial years including average turnover, certified by a CA.
 - (b) **Certification.** Details of quality certification held with the firm.
 - (c) **Registration.** Details of registration status of the firm as per Companies Act including MSME/ NSIC certification, if any.
 - (d) **Work Experience.** Details of experience in undertaking indigenous part tasking /ROH / MOH /Repair / Reclamation tasks with Defence, Govt. PSUs or any other agencies. Records of current/ similar projects in hand, their valuation and completion dates.

(e) **Technical Capability.** Firms responding to EoI should have following pre-qualification and must submit documents to support their eligibility.

(i) Must possess experience in aeronautical design, development, repair, reclamation, replacement, refurbishment, overhaul, life extension & certification of avionics aggregates / electronic / mechanical / electromechanical aggregates / airframes / aero engines and their aggregates.

(ii) Familiarity with IMTAR-2021, RCMA/CEMILAC certification procedures and preferably experience in certification of products and services.

(iii) Familiarity with supply chains for aeronautical quality components and material, special tools and machinery.

(iv) Availability of manufacturing and fabrication facility/ outsourcing (indicate plan and extent of outsourcing) as applicable to the project.

(v) List the in-house test facilities including those planned for out sourcing as applicable to the project.

(vi) Ability to generate the requisite human resource for the project through training and certification.

10. **Vendors should confirm that following conditions are acceptable**

(a) Solicitation of offers will be as per 'Single Stage-Two Bid System'. It would imply that a 'Request for Proposal' would be issued soliciting technical and commercial offers together, but in two separate sealed envelopes. Validity of commercial offers would be at least six months from the date of submission of offers.

(b) Technical offers would be evaluated by a Technical Evaluation Committee (TEC) to check its compliance with RFP.

(c) Equipment / services of all TEC cleared vendors is likely to be put through a verification testing in India on a 'No Cost No Commitment' basis as considered necessary by the user. Vendor should confirm equipment availability / capability to provide services and willingness to participate in verification testing.

(d) Amongst the vendors cleared after trial evaluation, a Contract Negotiation Committee would decide lowest cost bidder (L1) and conclude appropriate contract. In cases, where verification testing / capability verification is not undertaken at first stage, user trials on the First of Production Model (FoPM) are likely to be conducted as required and L-1 vendor would be bound by the condition that **"The contract will be terminated by Buyer, and, Seller will forfeit his bank guarantee, if vendor fails to prove capabilities, capacity or the product supplied fails to meet desired performance as per specifications"**.

- (e) Vendor would be bound to provide product support for time period specified in the RFP, which includes spares and maintenance tools/ jigs/ fixtures for field and component level repairs.
- (f) Vendor would be required to accept general conditions of contract given in the Standard Contract Document at Chapter VII of DPM-2009 (Supplement 2010).
- (g) **Warranty**. The equipment should have a warranty of **12** months.
- (h) **Product Support**. Vendor should be ready to provide after sales support. Cost of transportation & repair / restoration cost of equipment that requires support due to faulty performance attributable to vendor will be borne by the vendor.
- (j) **Training**. Training of approx. 15 maintenances personal up to D & I level is to be provided as per requirement of user at the user premises.
- (k) **Delivery**. All deliveries to be completed with 12 months of signing of contract.
- (l) **Infrastructure**. Vendor (s) should be able to demonstrate capability & capacity to undertake assigned task. User / buyer may undertake vendor site visit (s) to verify these aspects.

Note: - The details are available in DPM-2009

Detailed Project Report (DPR)

11. The DPR will be submitted by all vendors in response to EOI along with: -
 - (a) Outline features of the proposal.
 - (b) Estimated Capital Expenditure (As applicable).
 - (c) Roles, responsibilities and expertise details of consortium members, if any.
 - (d) Role of foreign technology provider, if any.
 - (e) Recommended stages/phases of task with priorities & time schedules.
 - (f) Requirement of specialised testing assistance where facilities are available only with government entities, DPSUs and DRDO/DGQA/DGAQA.
 - (g) Cost-sharing aspects as applicable.

12. Eol response would be evaluated based on supporting documents and physical verification of company's capability to execute the project by empanelled members of IAF. In accordance with Para 4.8.1 DPM -09, RFP will be issued to the vendor, re qualified through Eol.

13. Clarifications pertaining to EoI may be sought from the following address: -

Gp Capt Eng T (R2) / Wg Cdr Eng IL-76-I / Wg Cdr Eng IL-76-II
Directorate of EngT(R2)
Air HQ (Vayu Bhawan)
Room No. 277 / 276
Rafi Marg, New Delhi - 110 106
(Tele: 011-23010231/2111-5259 / 5273 / 7260)
Fax: 011-23060125/23060280
E-mail: manager.11@gov.in

14. This information is being issued with no financial commitment and the Ministry of Defence reserves the right to change or vary any part thereof at any stage. IAF, Ministry of Defence, Government of India also reserves the right to withdraw it, should it be so necessary at any stage. The procurement process would be carried out under the provisions of DPM-2009 as amended from time to time.

Date:

New Delhi

Annexures: As stated

DOCUMENTS REQUIRED FOR ATTENDING PRE BID MEETING

Interested firms have to forward the following details to attend the **pre-bid meeting**: -

1. Letter from firm for attending pre-bid meeting.
2. ID proof of representative (s)/ AADHAR Card details.
3. Residential address along with nearest police station.

Date.....

(Signature of Firm Rep attending
Pre Bid Meeting)

Place.....

Rubber stamp of Firm

Annexure-I
(Refers to Para 2 (a) of Eol)

SCHEDULE OF REQUIREMENT

**MAJOR OVERHAUL AND TOTAL TECHNICAL LIFE EXTENSION OF
RUSSIAN ORIGIN IL-76MD AIRCRAFT OF INDIAN AIR FORCE**

1. The Schedule of Requirement (SoR) is as follows:-
 - (a) Major Overhaul (MOH) of IL-76 aircraft, assigning of Time Between Overhaul (TBO), post-MOH, of 5000 Airframe Hrs, 3000 Landings and ten years and extension on calendar based Total Technical Life (TTLE) for requisite number of years so as to match it with assigned calendar based TBO post-MOH. The Contractor shall provide the Title / Serial Number etc. of the Technical Documentation on the basis of which the MOH and TTLE work will be performed. The Contractor shall also provide the details (Name, Address etc.) of the overhaul plants where the work shall be undertaken.
 - (b) MOH of aero engines (D-30KP-II) and Auxiliary Power Unit (APU TA-12A) shall not be included. However, repairs of minor nature / adjustments etc. to make the aero engines / APU airworthy, are to be included. If in the process, any component / aggregate of aero engine / APU requires repairs, the same needs to be undertaken.
 - (c) Execution of all applicable Modifications (Mods) and Standard and Additional Bulletins. The Contractor shall provide a list of all such Mods / Bulletins with brief detail of their Scope of Work.
 - (d) Complete elimination of corrosion from all the affected areas of the ac with replacement of panels (including honeycomb panels) / sheets / sub-structure parts, if so necessitated, due to them being found to be beyond repairs.
 - (e) Replacement with new, of all mandatory-change spares as mandated by the overhaul technology of the OEM / Designer.
 - (f) Replacement with new, of all non-repairable items such as load bearing cables / rip cords / spares / components etc., replacement of which becomes necessitated by the overhaul technology of the OEM / Designer.
 - (g) Replacement with new, of all rubberised hoses / spares / components, replacement of which becomes necessitated by the overhaul technology of the OEM / Designer.
 - (h) Replacement with new, of all upholstery (carpets, curtains, seat cushions, covers, beds etc.).

- (j) Replacement with new, of all wheel hubs, brake units, anti-skid units, organic and silicate glass panels, tyres, tubes, batteries and their shock absorbers, bulbs, light filaments and any such other item.
- (k) Repair and Overhaul (ROH) of all repairable aggregates and assigning TBO life post-ROH so as to match with assigned TBO life of ac post-MOH as well as to extend the TTL, if required, so as to match with assigned TBO life post-ROH.
- (l) Requisite repairs of honeycomb panels. If the Technical Commission of the Contractor finds any honeycomb panel, during the process of repair, as beyond repairs, the Contractor shall replace it with a new one.
- (m) Repair and Overhaul (ROH) of all Role Eqpt sent onboard the ac. The Contractor shall make good all the deficiencies, if any, in the Role Eqpt handed over for ROH and hand over complete set of Eqpt post-ROH.
- (n) Repair of all crew and passenger seats and replacement with new, of the seats which are found to be beyond repairs.
- (o) Repair of floor of ramp (including ramp extensions), cargo and crew compartments and replacement with new, of portions found to be beyond repairs.
- (p) All the new spares / components / aggregates installed as a result of replacement, should have their own normal full TBO / TTL lives to be counted from the date of completion of MOH & TTLE.
- (q) Painting (three coats) and marking of complete ac internally (Including Panels) and externally, after first stripping the ac of existing paint to bare metal. Paint of the following specifications shall be used:

POLYURETHANE ENAMEL AERODUR HFA 132 GREY MATTE COLOUR 36293 as per federal standard 595 B manufacturer AKZO Nobel Aerospace coatings VOF, Netherlands.

OR (IN LIEU)

SIMILAR STANDARD of MATTE finish and colour from PR469C DESOTO, UK

- (r) Replenishment of Fuels, Oils and Lubricants (FOL) during the course of MOH & TTLE including all ground running of aeroengines / APU and test flights till the ac is finally accepted by the Reps of Customer after completion of MOH & TTLE.
- (s) **Warranty.** Post completion of MOH & TTLE, the ac and all of its components / aggregates shall have Warranty of 750 Airframe Hrs / 500 Landings / 18 Months (whichever is earlier).

(t) **Profile for Joint Test Flight prior to Acceptance of ac after MOH & TTLE.**

The Contractor shall provide a standard profile for Joint Test Flight, conducted by Aircrew Reps of the Contractor and the Customer prior to acceptance of ac after MOH & TTLE, drawn in consultation with the Customer, not less than one month prior to conduct of such test flight.

Documentation

(u) The Contractor shall update with latest data post-MOH & TTLE, the Weight & Balance and Rigging Certificates.

(v) The Contractor shall endorse completion of ROH & TTLE and assignment of TBO & TTL on certificates / passports of each aggregate.

(w) The Contractor shall update the Aircraft Log Book with the latest SI Nos. of all installed aggregates / components.

(x) The Contractor shall supply in soft and print format, within the purview of 1st & 2nd Line Maintenance, all the amendments issued by the OEM / Designer in respect of all the Technical Publications (Maintenance Schedules, Scheduled Maintenance Practices, Task Cards, Wiring Diagrams, Maintenance Manuals, Parts Catalogues, Lubrication Charts etc.).

2.	<u>Additional Aspects</u>
	<u>Certificate of Compliance.</u> To be issued by OEM or certified by CEMILAC.
	<u>Quality Assurance Cover.</u> To be provided by OEM or DGAQA.
	<u>Infrastructure.</u> Vendor (s) should be able to demonstrate capability & capacity to undertake assigned task. User / buyer may undertake vendor site visit (s) to verify these aspects

Annexure-II
(Refers to Para 7 of EoI)

VENDOR INFORMATION PROFORMA

1. **Name of the Vendor/Company/Firm.**

(Company profile including share holding pattern, in brief, to be attached)

2. **Type (Tick the relevant category).**

Original Equipment Manufacturer (OEM) Yes/No

Authorised Vendor of foreign Firm Yes/No (attach details, if yes). Such as OEM certificate indicating that the vendor is designated as capable / competent of undertaking assigned task. This certificate will be subjected to verification by IAF through a competent authority.

Others (give specific details)

3. **Contact Details.**

Postal Address:

City: _____

State: _____

Pin Code: _____

Tele: _____

Fax: _____

URL / Web Site _____

4. **Local Branch/Liaison Office in Delhi (if any).**

Name &Address:

Pin code:

Tel:

Fax:

5. **Financial Capability Details.**

(a) Category of Industry (Large/medium/small Scale):

(b) Annual turnover for last three years: In Rs

(c) Number of Employees in Firm:

(d) Details of Manufacturing Infrastructure:

6. **Technical Capability Details.** Earlier contracts with Indian Ministry of Defence/ Government agencies for same / similar class of equipment.

Contract Details with Ref Number	Equipment	Quantity	Cost

7. **Certification by Quality Assurance Organisation / Military Airworthiness**

Name of Agency	Certification	Applicable from (Date &Year)	Valid till (Date &Year)

8. **Details of Registration**

Agency	Registration No.	Validity up to (Date)	Equipment
GeM			
DGQA/DGAQA/DGNAI			
OFB			
DRDO			
Any other Government Agency			

9. **Membership of FICCI /ASSOCHAM /CII or other Industrial Associations**

Name of Organisation:

Membership Number:

10. **Equipment/Product Profile (to be submitted for each product separately) for Assessment of Work Experience.**

- (a) Name of Product: __
- (b) Description (attach technical literature): _____
- (c) Whether OEM or Integrator: _____
- (d) Name and address of foreign collaborator (if any): _____
- (e) Industrial License Number: _____
- (f) Indigenous component of the product (in percentage):
- (g) Status (in service /design & development stage):
- (h) Production capacity in one year.
- (j) Countries/agencies where equipment supplied earlier (give details of quantity supplied):

- (k) Estimated price of the equipment approximately Rs _____

(Details that go into determining the cost of the scheme, including factors such as Annual Maintenance Contract (AMC), product support package, training etc. to be indicated by the vendor).

- (l) Any additional development cost required to be incurred (with amount) and amortization plan.

11. **Undertaking.** It is certified that the Company/SME Unit has adequate capability for production/manufacturing /system integration/ ROH for the product (s) being procured as well as the capability for maintenance and life cycle support for such product(s).

12. **Declaration.** It is certified that the above information is true and any change will be intimated **within seven days of submission of EoI.**

(Authorised Signatory)