

## **LETTER OF INTENT FOR ESTABLISHMENT OF LYCOMING ENGINE MRO AND TESTING FACILITY**

1. In this context, a technical and budgetary quotation is required for a turnkey MRO and testing facility for Textron Lycoming IO-360A1B6 and Textron Lycoming IO-540V4A5 540 engines. Vendor (OEM / Authorized MRO or its designated representative) must be EASA / FAA certified and should have a vast experience of Textron Lycoming engine overhauling. Moreover, the test run facilities of both the engines must encompass Data Acquisition System, engine dress kit, infrastructure like thrust frame adapters, engine preparation room, Fuel, Oil, Electrical and Fire Extinguishing system etc. In view of same, under mentioned are the detailed specifications / requirements to establish MRO and testing facility for Textron Lycoming IO-360A1B6 and Textron Lycoming IO-540V4A5 540 engines. Export licensing for all equipment & servicing will be the responsibility of the vendor).

(a) **Certification.** The establishment of MRO facility of Textron Lycoming IO-360A1B6 and Textron Lycoming IO-540V4A5 540 engines is required to be as per EASA part 145 / FAA specifications and must qualify AMOF status. Copy of all certifications of principal MRO (Vendor) is to be attached and MRO should also be certified as per ISO 9001/AS 9100 or equivalent certification.

(b) **Letter of Representation.** In case of submission is proposal through authorized representative of OEM or authorized MRO then letter of representation from principal MRO that should also acknowledge willingness to undertake the aforesaid project. In case of vendor is MRO then a list of clients of with references is required for verification.

(c) **Training.** Training proposal is to elaborate the time, method and evaluation of training for MRF personnel. Following aspects are required to be catered for training of MRF personnel: -

(i) Both theoretical as well as hands on training under the supervision of OEM technical experts is mandatory to cover all aspects of overhauling.

(ii) This training must include but not limited to "Disassembly / Assembly of Textron Lycoming IO-360A1B6 and Textron Lycoming IO-540V4A5 540 engines", "Inspection, repair and overhauling of components, parts and accessories", "Testing of components & Engine ground running" and "Quality acceptance". Training must ensure that Technicians will be equipped with a skill level for undertaking the overhaul / repair of Textron Lycoming IO-360A1B6 and Textron Lycoming IO-540V4A5 540 engines at MRF, independently.

(iii) Minimum 15 trainees would be trained all boarding, lodging and travelling (local & International) will be responsibility of vendor. Principle MRO is to provide the certificates to the technicians after completion of training.

(d) **Tools / Tester / Fixtures.** Tools , Testers and Fixtures includes: -

(i) Complete set of independent tools / Tester / fixtures for Textron Lycoming IO-360A1B6 and Textron Lycoming IO-540V4A5

540 engines would be required to ensure engine maintenance without delays.

(ii) Equipment for engine Assembly / Disassembly, transportation & testing, balancing of rotating parts, inspection of bearings and calibration of engine test cell etc. must be included in the package.

(e) **Publications.** The publications related to MRO and testing facility include: -

(i) All publications for overhauling, repair, maintenance and testing of Textron Lycoming IO-360A1B6 and Textron Lycoming IO-540V4A5 540 engines are to be provided by OEM.

(ii) These documentations / publications include Technical Manuals, IPBs, Electric schematic diagrams, Engine inspection & repair / overhaul procedures, Component maintenance manual, operation / Data sheets and special tools list etc.

(iii) Updates related to publication should also be provided.

(f) **Engine Test Cell Specs.** The test cell specs for Textron Lycoming IO-360A1B6 and Textron Lycoming IO-540V4A5 540 engines includes: -

(i) An OEM certified and correlated engine test cell facility is required) at MRF.

(ii) The engine testing facility must be on turnkey and also include:-

A. Data Acquisition System

B. Fire extinguishing System

C. User friendly interface software

D. Real time Data Display

E. Data analysis

F. Associated support facilities like Fuel System, Pneumatic System, Fire suppression system and test cell infrastructure etc.

G. Thrust frame adaptor, load cells, compressor, wirings etc.

H. Other applicable hardware like Engine test stand, Engine mounts and Engine exhausts etc.

(g) **Gold Engine.** 02 Textron Lycoming IO-360A1B6 and Textron Lycoming IO-540V4A5 540 engines are to be overhauled as per the OEM Gold engine requirements by the MRO (vendor) to be utilized as Gold engines at MRF. These engines are other than 02 engines mentioned in training requirement.

(h) **Technical and spare support.** Principal MRO is to provide technical assistance to MRF for the period of initial 03 year. Further requirement may be discussed after completion of initial 03 years. The assistance program should encompass “updating of publications and providing spares as per the requirement of MRF”.

(i) **Infrastructure.** The vendor is also required to establish complete infrastructure for the aforesaid engine MRO. The infrastructure establishment should be EASA/FAA certified and accomplish overhauling line setups for subject engines.