

**Terms of Reference for Engagement of Consultant (Technical)
Post Code No.1 : Propulsion (PS)**

1. Whether the proposed engagement is against vacant post or for specific work or project:

The proposed engagement of consultant is for specific work.

2. Precise statement of Objectives for appointment of consultant:

- Engine Electrical and Avionics Interface for LCA AF Mk2 and AMCA, Design and Development of Test Cell to test GE-F414-INS6 Engine, RTM (Real Time Model) Integration and Testing, GE-F414-INS6 Engine Health Monitoring System, Flight Test Instrumentation.

3. Category of work:

(a) Technical work

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(b) Non-Technical work

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4. Number of Vacancies : 01

5. Pay level of Consultant (at the time of retirement/superannuation):

Pay Level – 14 / 15

6. Discipline or domain, where engagement of consultant is required.

- a) First Class Bachelor's Degree in Engineering / Technology in Electronics / Electrical & Electronics / Electronics & Control / Electronics and Instrumentation / Instrumentation / Instrumentation & Control Engineering from a recognized University or
- b) Equivalent Electrical and Avionics Interface, Instrumentation, Signal Conditioning and Real Time Data Acquisition, Flight Test Instrumentation, Engine Health Monitoring system.

7. The expertise/skills/knowledge required for engagement as consultant:

- Engineering Graduate in Electrical / Electronic Engineering having good understanding of Aircraft Electrical and Avionics Interfaces, knowledge on Control Systems Engineering, Hardware Interface Diagrams / Circuits, Electrical Wiring / Routing, Data Acquisition System, Sensor and Design and Development of Test Rigs and its certification

8. Outline of the tasks to be carried-out:-

- a) Engine Electrical and Avionics Interface, Engine Health Monitoring System, FRS (Functional Requirement Specification), FTI (Flight Test Instrumentation) Interfaces for LCA AF MK2 aircraft.
- b) Engine RTM (Real Time Model) Integration and Testing in Engine Test Cell and Avionics Rig.
- c) Support for indigenization of Ice Detector Sensor

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- d) Requirements capture, preparation of specification, Design and Development Real Time Data Acquisition and Control System for INS6 Engine Test Facility for AMCA and LCA AF MK2 aircraft
- e) Engine Electrical and Avionics Interface Requirement Specification (IRS) for AMCA
- f) Data Acquisition and Control System for Engine Test Facility
- g) Establishing D0178B process for Test Cell Software
9. **Estimated time period required for completion of Tasks:** One year and extendable based on performance/requirement of the project.
4. **Remuneration:** A fixed consolidated monthly remuneration shall be admissible as follows:

Pay level of Retired officials	Equivalent Pay Scales of Employees Retired from PSUs	Consolidated Remuneration payable	Conveyance Allowance	Remuneration payable per month
Level- 14	Grade-VIII (Addl. Gen Manager) (Rs.100000-260000)	₹.75,000/-	₹.5,000/-	₹.80,000/-
Level- 15	Grade- IX (General Manager) (120000-280000)	₹.90,000/-	₹.5,000/-	₹.95,000/-