

1. Introduction

Applications are invited from Indian public limited/deemed public limited / private limited / partnerships registered Indian firms having relevant expertise for the purpose of Technology Transfer for manufacturing and assembly integration of the 450 kgf thrust class Small Turbo Fan engine by Gas Turbine Research Establishment (GTRE).

2. About GTRE

Gas Turbine Research Establishment (GTRE) is one of the pioneering Research and Development Organizations under the Ministry of Defence, Government of India. The main charter of the Establishment is to design and develop aero gas turbine engines.

3. Brief Description of the Technology

Gas Turbine Research Establishment, Bengaluru had undertaken the project to design and develop a 450 kgf thrust class Small Turbo Fan Engine (STFE) aimed for Unmanned Aerial Vehicle application. The STFE Engine is a generic twin spool engine without afterburner. It is an expendable, single use, short life turbo fan engine comprising of various modules (Figure 1). GTRE had also undertaken the task of developing other sub-systems and Line Replacement Units (LRU)s like alternator, Pyro systems, Fuel injection system, Digital Engine control system etc. with Indian public / private R& D establishments and industries.

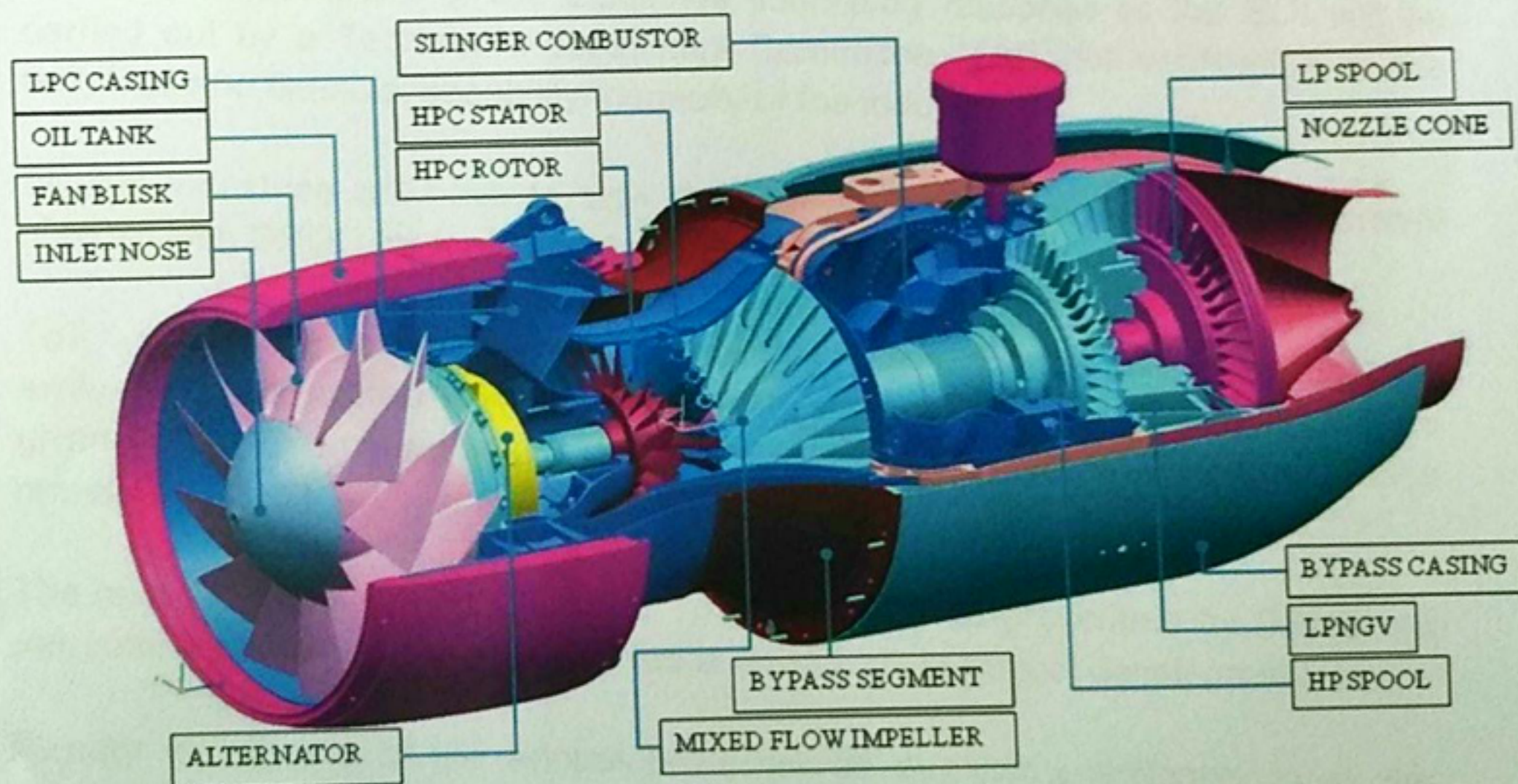


Figure 1: Engine Layout with Modules of 'Manik' STFE