

**AIRWORTHINESS CERTIFICATION OF TEJAS - LIGHT COMBAT AIRCRAFT
(LCA)
FOR INITIAL OPERATION CLEARANCE (IOC) AND CHALLENGES FOR
FINAL OPERATION CLEARANCE (FOC)**

M. Peter Arun; Pradeep Mahuli; P. Jayapal
Centre for Military Airworthiness and Certification (CEMILAC)
Marathahalli Colony Post
Bangalore-560 037, India
Email : peter.arun@cemilac.drdo.in

Abstract

Tejas - Light Combat Aircraft is an indigenously designed and developed fighter aircraft, with cutting edge, State-of- the- Art technologies. The technologies include, Quadruplex redundant digital Fly-by-wire control system, advanced Avionics, Glass cockpit, Composites for primary structures and dual redundant processor based utility services management systems. LCA development with over 2500 plus successful flights has been accorded the IOC. The IOC marks the culmination of a long journey of aircraft development and rigorous testing to meet international standards of safety and reliability so that the aircraft can be inducted into the country's Defence forces to serve its intended purpose.