

PROJECT MANAGEMENT FOR COMPLEX AEROSPACE FACILITY WITH MULTIPLE DOMESTIC AND INTERNATIONAL AGENCIES USING A NOVEL TOOL

Devendra Singh & B. Ashok

Research Scholar, Aeronautical Development Agency, Bangalore, Karnataka, India

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ABSTRACT

Complex Projects need innovative thinking and the State of Art Management Practices. The Military Project Management requires a multifaceted approach in the complex Technology environment to ensure Security of the Country. There is an essential need to ensure delivery timeline within the allotted budget. This assumes greater challenge for first time Indigenous design, development, and production of Carrier-Based Fighter (CBF) Aircraft. In order to test and qualify CBF, there was an emergent need for the Shore Based Test Facility (SBTF). This being National Project, there were severe time constraints and it was under close scrutiny for implementation. The Project required a complex engineering task of arresting the descent of Aircraft at microsecond accuracy. This simulates the actual landing in ship deck and hence qualifies the Aircraft arrestor hook system, which is indigenously developed. It also simulates takeoff from Ski-Jump to qualify the aircraft in an actual operating environment. The SBTF Project involved management of foreign collaborator, planning and execution with countless reviews and applying correctives measures. This paper deals with the planning and execution of the SBTF Project and use of a Novel Management Practices for the same. The SBTF Project was successfully executed in Jan 2014 and effectively employed for indigenously developed CBF flight testing and training of Indian Navy pilots on existing Russian MiG29K Aircraft. The SBTF Project is reliably ready to prove Carrier Compatibility of indigenously developed CBF and train Indian Navy Pilots.

KEYWORDS: *Management Practice, Carrier Based Fighter Aircraft, Shore Based Test Facility, Complex Aviation Technology, Nine Point Framework*