

# INDIGENOUS DEVELOPMENT of Aerospace Materials , Components, Equipments & Systems.

By networking the large aerospace and defence PSUs and R&D labs with private industries, particularly SMEs providing help and information on items to be indigenously developed, conducting workshops on requirements and procedures for development, outsourcing etc, R&D and technology tie ups and international cooperation, know how transfer on airworthiness requirements, advance manufacturing processes, quality controls etc, assistance in certification and approvals, training and skill development, SIATI member industries contributed significantly in our endeavor for indigenous development with the support of quality assurance and military airworthiness agencies and active user involvement ( HAL, ISRO, Armed Forces). To promote innovations and product development and collaborative R&D, SIATI instituted “ **Awards of Excellence in Indigenous development**”

Capabilities and facilities have been established in the private sector industries spread over various regions of India, for design and manufacture of range of aeronautical stores such as raw materials, precision castings and forgings, machined components, sheet metal components, fasteners and standard parts, pipe assemblies, structural assemblies, composites, rubber seals, hoses, paints, sealing compounds, lubricants and other consumables. In the field of electronics/ instruments, electrical, electromechanical, hydraulics etc, in addition to component level indigenization, member industries have established capabilities in design manufacture of circuit boards, subsystems, equipments and systems and various types of aircraft and engine accessories. Some capabilities in the MRO field have also been set up.

A related area in which significant capabilities have been developed include Design and manufacture of :

- Tools and fixtures for machining, composite molding, structural assembly
- Ground handling and Ground support equipment for aircraft and engines.
- Test equipments, test rigs, test beds etc.
- IT enhanced design and testing solutions and other services.

SIATI, which was founded in 1991 with the prime objective of achieving self reliance through indigenization has succeeded admirably in bringing together various small/ medium/large scale industries engaged in aerospace activities.

It is very encouraging to note that due to SIATI's persistence efforts, interaction between their members, R&D Laboratories and Academic Institutions has successfully taken place, leading to indigenization of materials, components and systems for various aerospace applications.



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5 Jan 2001