

ADA formation – A Background.

A war is not winnable if the enemy has air-superiority. Indeed, no nation enjoying air superiority has ever lost a war by the force of enemy arms. A commander who tries to win - or not lose – without air-superiority is trying to do what no one has done before. The gaining of Air Superiority is the first requirement for the success of any major land operation. Air Forces may be profitably employed against enemy sea power, land power and air power. However, land forces operating without air superiority must take such extensive measures against hostile air attack that their mobility and their ability to defeat the enemy land forces are greatly reduced. Therefore Air Forces must be employed primarily against the enemy's Air Forces until air superiority is obtained. In this way only can destructive and demoralizing air attacks against land forces be minimised and the inherent mobility of modern land and Air forces be exploited to the fullest.

There was no fighter aircraft development project in the country for more than 02 decades. Design potential in aeronautics had been decimated over years. There was no enhancement of infrastructure at Prototype facility of ADB, HAL since HF-24 Aircraft project. The era was marked with non-existent computer and CAD/CAM facilities in India. No significant technology development programmes other than AR & DB sponsored projects in the Aviation Industry. Aeronautics was no longer an area of attraction. Identification of available talent with expertise in aeronautical field was the first major task. Formation of core team of specialists drawn from various organizations, exploitation of knowledge base from academia and peers, training of manpower, Infrastructure build-up, Identification & augmentation of resources available within country and Creation of additional facilities for advanced technologies and development of technologies were the main challenges in the formation of ADA