

# AIRBORNE EW TECHNOLOGIES AND SYSTEMS - INDIAN SCENARIO

Durga Prasad  
Scientist G  
Defence Avionics Research Establishment (DARE)  
Defence Research and Development Organisation (DRDO)  
Ministry of Defence  
CV Raman Nagar  
Bangalore-560 093, Karnataka, India  
Email : [durgaprasad@dare.drdo.in](mailto:durgaprasad@dare.drdo.in)

## Abstract

In today's combat scenario, Electronic warfare has become a very key and important element. In the event of conflict and thereby arising battle situation, the effectiveness of a weapon system is predicted on the ability to deceive and negate enemy radar and communications. Thus, survivability of airborne platforms of armed forces against sophisticated radar guided air defence weapon systems can be made superior by equipping them with advanced EW systems. These systems may consist of a combination of electronic support and electronic attack systems. The development of newer technologies in EW area is a continuous process and keeps changing periodically with time. The EW capability must evolve to keep pace with the changing threat environment. It is thus inevitable that upgrades of existing systems already fielded for use or the development and deployment of newer systems are essential. Defence Research and Development Organization (DRDO), Ministry of Defence, Government of India has developed a number of state-of-the-art airborne EW Suites for Indian Armed Forces over the years. The presentation covers indigenously developed Airborne EW systems namely Radar Warning Receivers (RWRs) / Electronic Support Measure (ESM) Systems and Self Protection Jammers (SPJ). Also the development efforts in progress, in respect of future systems, will be briefly presented.

**Keywords:** Airborne EW, RWR, ESM, SPJ