



Synergy in Air, Land and Sea.



HAL-Edgewood Technologies Pvt. Ltd.

An Airborne system with search radars integrated with ground based Operations Centres that shall provide a new dimension of aerial depth (detection, identification, threat evaluation) to the Op centre infrastructure.

Benefits

- Display of a fused Operational picture.
- Integration of all Op Centres and radars in the air for realistic situational awareness (SA), through data fusion.
- Timely mission decision support system.
- Effective Military resource management.
- On-line terrain analysis.
- Multi spectral Situational awareness scenario.
- Corridor free radar coverage.
- UAV air relay.
- Replaying facilities.

A2C2 ISR

An Indigenised Army Airborne Control Centre

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INTRODUCTION

Future Army aviation operations depend on the development of technologies and systems that support effective on the move command of airborne and ground based manoeuvre forces through shared situational awareness and decision aiding technologies. It is submitted, that the Indian army needs an airborne command and control system for the TBA. Such a system will combine comprehensive battle field communication capabilities with a sophisticated computing facility. The army airborne system can be housed within a helicopter, preferably the Indian ALH known as Dhruv. The above stated project can be completely executed by in house ideas, by the Indians and for the Indians. International sophisticated systems are prohibitive in terms of cost and we have to depend upon their time frame as far as procurement and operationalisation is concerned. This is unacceptable and very often there are accompanying technologies and functions that we do not need.

PROPOSED SOLUTION

HETL, moots the idea of an Integrated Airborne Situational Awareness Center (A2C2 ISR). The A2C2 ISR on the Indian front will be a corollary to the AWACS. It is an emerging Airborne architectural system, conceptualized and designed by us. It is an Airborne system with search radars integrated with ground based Operations Centres. The concept of implementation shall provide a new dimension of aerial depth (detection, identification, threat evaluation) to the Op centre infrastructure.

The UAV control will include capabilities to permit the commander to exploit the capabilities of an organic surveillance UAV in developing situational awareness and monitoring the battle. UAV control capabilities will include managing a two way communication with the UAV via a common data link, dissemination of the routes to the UAV, managing the UAV sensor and keeping track of area scanned by the sensor.

HAL-Edgewood, Bangalore is focussed on the avionics design and development domain. HAL-Edgewood is a joint venture of HAL, pioneers of avionics and systems industry in Asia, Edge Tech India and Edgewood Ventures, LLC USA an investor in major projects in the areas of Semiconductors, Satellite Based Systems, Wireless, Aerospace and Defense.

