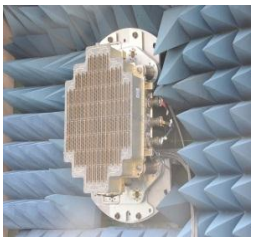
Active Electronically Scanned Array Radar (AESAR)

Electronics and Radar Development Establishment (LRDE), a premier lab under DRDO has developed state-of-art Radar systems and associated technologies. LRDE is seeking Expression of Interest (EOI) from prospective bidders/recipient for Transfer of Technology in the area of Radars.

Presently, LRDE is ready for ToT for the **"Active Electronically Scanned Array Radar (AESAR)".** Prospective bidders for EOI are advised to refer the document, "Guidelines for Transfer of Technology" published in the Transfer of Technology link on the website, www.drdo.gov.in for the terms and conditions to be complied by the bidders for receipt of technology.

1 Description of Technology:

The AESA Radar is multimode, solid-state active phased array fire control Radar in X-Band with modular and scalable architecture with graceful degradation that can be adapted for various types of airborne fighter class platforms.



AAAU

ERP

Front-End

Cooling Unit

Radar Sub-Systems

The Active Electronically Scanned Array is configured using large number of Transmit Receive Modules (TRM's) to achieve the power aperture required for the Radar. The processing is achieved using state of the art Exciter Receiver Processor (ERP) optimised for use on fighter class platforms. Active phased array technology in the Radar enables user to achieve high mission reliability with multi-target tracking capability. The radar operational modes are designed to assist the fighter pilot in the execution of various combat missions in air-to-air, air-to-ground and air-to-sea operations.

2 Salient Features:

The AESA based fire control radar is capable of providing interleaved multimode of operation to meet the operational requirements of the fighter aircraft. The radar has state-of–the-art ECCM features. The Radar provides better situational awareness of the modern battlefield scenario. It is capable of tracking multiple targets with high accuracy suitable for

fire control along with interleaved Air to Air, Air to Ground and Air to Sea modes in all terrain solution.

3 Application Areas

The AESA based fire control Radar can be configured for use on any fighter class aircraft.

Interested Industries may submit their company profile, financial & technical Capabilities etc. as per the EOI terms (Refer Appendix-G in 'Guidelines for ToT' document) to Director, LRDE, Bangalore and copy to Director DI^{2}TM on the following addresses within 45 days of this advertisement.

Director, LRDE DRDO, Min. of Defence, C V Raman Nagar Bengaluru-560093 Contact No : 080 - 25025415 080 - 25025518 (ToT cell) Fax : 080 - 25242916	**Director, DIITM** Room No 446 DRDO Bhawan DRDO HQrs Ministry of Defence Rajaji Marg New Delhi – 110011 Contact No : (011) 23016216 / 23007446 Fax : (011) 23793008