

EXPRESSION OF INTEREST FOR

ToT & PRODUCTIONISATION OF FIXED WING MINI UAV (FWMUAV)

Aeronautical Development Establishment (ADE), Bangalore, a Research and Development Laboratory under the MOD – DRDO is a premier establishment developing Unmanned Air Vehicles for meeting the services requirement.

ADE has developed a 3 Kg class FWMUAV, 500mm class Micro Air Vehicle, that could be used for close range surveillance purpose. The FWMUAV has an endurance of 1 Hour while MAV has an endurance of 30 minutes. The vehicles are electric motor propelled and the energy requirement is met by Battery. The vehicle carries a gimbaled payload mounted in the front nose area that can be fitted either with a Daylight or Thermal /Infra Red Camera.

FWMUAV is developed around Commercially Available Of The Shelf (COTS) systems which ensures the availability of the systems /components from more than one vendor.

ADE has carried out extensive field trials and demonstrations to various users. As per the projections from end users there is a requirement of 500-1000 vehicles. Thus there is a potential for bulk production of the FWMUAV.

These vehicles are developed in association with CSIR-NAL. ADE/NAL is looking for prospective Industries for taking up the production activity which broadly envisages Preparation of the production drawings for the FWMUAV, Preparation of sub assembly /part drawings, production process for the Airframe, Assembly procedure with emphasis on field level maintenance by end user, sub systems of FWMUAV – Propulsion, Energy, Communication Link, Autopilot, Gimbaled Payload and etc, Sub systems interconnectivity and the terminations, Overall system integration and standalone testing, Flight trials & site management, training and life time support of the vehicle to the end users.

Productionisation will commence only after TOT formalities are completed as per GOI procedure.

The Industry willing to take up the production activity must have strong technical base, infrastructure, proven track record for bulk manufacturing, financial resources.