

'ASREM-3100P' (Aircraft Store Release & Ejector Mechanism)

'ASREM-3100P', a 14inch pneumatically actuated ejection and release unit is used for safe separation of stores from fighter aircraft. ASREM-3100P releases and ejects the stores away from the aircraft after receiving the command. Entire release mechanism of ASREM-3100P is housed within the two alumium plates which has marking for manual or ground locking/ unlocking of store. It holds the store with its two suspension hooks, spaced at 14inches and engaged with NATO std lugs of stores, during various flight manoeuvres. Two thrust ejectors have been provided at both ends of ASREM-3100P to impart the ejection velocity on store during launch, which ensure the safe separation of store. These ejectors housing also enclose the sway braces. Four Sway braces, two at fore end and two at aft end have been provided with preload to constrain the stores tri-axially during flying. Using the four mounting holes provided on ejector housing, ASREM-3100P can be integrated on twin or quad rack which itself is integrated on fighter aircraft. ASREM-3100P is also provided with micro switches which sense and send feedback of locking or unlocking of mechanism.

ASREM-3100P is actuated using high pressure pneumatic system. Gas is stored at high pressure inside the bottle and released to the manifold through solenoid valve when electric supply is provided. Flow of pneumatic pressure towards fore and aft ejector end has been controlled through orifice setting which results in desirable pitch up/down release of store. This pneumatic actuation system provides the maintenance free operation of ASREM-3100P.

ASREM-3100P is qualified for airworthiness and CEMILAC certificate has been granted for airborne applications.

1. Interested Companies/industries are requested to apply against this EoI to following address:-

**To,
The Director,
Research & Development Establishment(Engineers)
Kalas, Alandi Road, Dighi P.O., Pune-411 015
Email- director.rde@gov.in**

2. A copy of interest may be sent to the following address without any attachment:-

**To,
The Director,
Directorate of Industry Interface & Technology Management(DIITM)
Room No. 447, DRDO Bhawan Rajaji Marg, New Delhi-110 011
Email-diitm.hqr@gov.in**

List of Support documents to be attached with EoI:-

- (a) Memorandum and Articles of Association (Should be incorporated as per Indian Companies Act, as amended time to time).
- (b) Certificates of registration as a manufacturing unit, if any.
- (c) Audited Balance Sheet for the preceding three years.
- (d) Income Tax returns for the preceding three year period.
- (e) Details of shareholding/ownership pattern especially foreign partners/shareholders, foreign employees, directors, etc. The company must adhere to the prevailing Govt of India policies and regulations on Foreign Direct Investment (FDI)/DIPP norms as applicable.
- (f) Annual budget for R&D during last three years.
- (g) Numbers and details of IPR or patents, etc., held by the company.
- (h) Number of technically or professionally qualified personnel.
- (i) Record of past performance (e.g., Supply orders executed against of Ministry of Defence orders, Public Sectors and Paramilitary Forces, if any).
- (j) Availability of adequate infrastructure (List of machines and their production capacities) and technical expertise.
- (k) List of Testing and Support equipments.
- (l) ISO/ ISI certification or any other certification.
- (m) Relevant clearances form the authorities/ ministries (if any).
- (n) Capacity and capability to undertake developmental work and to accept attendant financial and commercial risks.
- (o) Capacity/capability to market the product through the marketing network, sales and service network, reliability to maintain confidentiality.
- (p) PESO and DPIIT license for explosive handling if ToT is for high energy Material, explosives, propellants, and component/ system dealing with it etc.
- (q) Under taking form company seeking ToT that none of its Directors, Independent Directors, non-executive Directors, Key management personnel are involved in any corrupt practices, unfair means and illegal activities.
- (r) Details of the industries license for Defence manufacturing be provided by the industry seeking ToTs.