

# AIRCRAFT ARRESTER BARRIER SYSTEM

## INTRODUCTION

The purpose of aircraft arrester barrier system is to engage a fighter aircraft to halt its forward momentum in the event of aborted takeoff or landing over run with minimal damage to aircraft or injury to the crew.

ADRDE has developed following two Types of Aircraft Arrester Barrier Systems:

### 1. Aircraft Arrester Barrier System for 20.4 Ton Class of Aircrafts

This arrester barrier is used for Aircraft mass ranging from 6 Ton to 20.4 Ton.

The Specifications are given below;

Aircraft Mass : 6 to 20.4 Ton  
Engagement speed : 170 knot (max)  
Run Out Distance : 270 m  
'g' load on the a/c : < 3 g  
Net Centre Height : 3.5 to 3.9 m



### 2 Aircraft Arrester Barrier System for 40 Ton Class of Aircraft

This arrester barrier is used for Aircraft mass ranging from 9 Ton to 40 Ton.

The Specifications are given below;

Aircraft Mass : 9 to 40 Ton  
Engagement speed : 153 knot(max) for 9 to 11 ton  
160 knot(max) for 11 to 40 ton  
Run Out Distance : 270 m  
'g' load on the a/c : < 3 g  
Net Centre Height : 4.7 to 4.9 m



The inflated parachute is shown in above figure.

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

Director

Aerial Delivery Research and Development Establishment (ADRDE)

PO Box 51, Station Road

Agra Cantt – 282001

Phone : 0562 - 2258200/201/202

Fax: 0562- 2251677 / 2258203

Email : director[dot]adrde[at]gov[doEmail : director[dot]adrde[at]gov[dot]in

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

**Copy to: (For information only)**

Director

Directorate Industry Interface and Technology Management (DIITM)

Room No 447, DRDO Bhawan, DRDO HQrs, Rajaji Marg, New Delhi – 110011

Phone No: 01123013209/23015291 Fax No: 011-23793008

Email ID: diitm[dot]hqr[at]gov[dot]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 equipment.
- (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.