

**GOVERNMENT OF INDIA, MINISTRY OF DEFENCE  
DEFENCE RESEARCH AND DEVELOPMENT ORGANISATION  
AERIAL DELIVERY RESEARCH & DEVELOPMENT ESTABLISHMENT (ADR&DE)  
STATION ROAD, AGRA-282001**

**Introduction:**

ADRDE has designed & developed Combat Free Fall (CFF) parachute system. This parachute system is used by Armed forces for HAHO and HALO operations.

**Aim:**

To find suitable industrial partners for bulk production of this parachute to meet the futuristic requirement of Armed Forces including IA, IAF, IN and others paramilitary forces. DRDO will transfer the technology to industrial partner (called vendor hereafter) for bulk production.

**Future Scope:**

Based on the present projection, it is anticipated that there will be a requirement of qty.1000 nos. (approx.) in next five years. However, DRDO does not guarantee the orders from the users.

**System Description:**

The parachute system consists of following components:

- i. 9-cell Ram Air Parachute for main & reserve
- ii. Deployment bag for main and reserve parachute
- iii. Auxiliary Parachute for main & reserve
- iv. Tandem pack cover
- v. Equipment carrier & Lowing Strap
- vi. Carrying bag



**(i) 9-cell Ram Air Parachute for main & reserve**

The parachute canopy used in CFF is 9-cell Ram Air parachute. Main and reserve canopy are identical.



**(ii) Deployment Bag**

The deployment bags used in CFF parachute are made of fabric cotton. The use of cotton fabric is to minimize the friction between canopy and deployment bag and thus for long life of parachute.



**(iii) Auxiliary Parachute for main & reserve**

Auxiliary parachute is used to deploy the main & reserve parachute. It is made of helical spring and nylon fabric and net polyester



**(iv) Tandem Pack**

The tandem pack cover used in CFF is combined pack for reserve and

main parachutes. Harness is also integrated with tandem pack. The fabric used in tandem pack cover is heavy-duty air texturized nylon fabric in disruptive design. The harness is also integrated with pack cover and can be adjusted from 8 points to suit the requirement of paratrooper.

**(v) Equipment Carrier**

Equipment Carrier Bag (ECB) is to facilitate the para-trooper to jump along with combat equipment. Combat equipment are packed in ECB and attached to harness of paratrooper.



## PRE-QUALIFICATION CRITERIA

1. Only Indian company wholly owned by Indian individual are allowed to participate in this EOI.
2. Company should possess Certificate of registration as manufacturing unit, if any.
3. The company should have minimum annual turnover of Rs. 8Crores for the last three financial years. Fundamentals of the company, like company profile, balance sheets and income tax returns etc. for last three years will be mandatory to assess the capability of the firm to undertake the order for subsequent bulk production.
4. On receipt of EOIs, the same will be scrutinised by a committee of experts duly constituted by competent authority who shall asses the suitability of the firms for this task. If required, the committee may visit the bidders' premises for assessment.
5. Vendor has to fabricate qty.02 nos. of Parachute system and supply to ADRDE for evaluation. Thus qualified vendor will be considered for final ToT.
6. DRDO at its discretion can transfer the technology to more than one vendor.
7. DRDO does not guarantee the orders from the users.

## FORMAT FOR APPLICATION FOR EXPRESSION OF INTEREST

### Details to be enclosed as Annexures

1.	Name and full address of the Organization	
2.	Management structure	
3.	Contact Person with designation	
4.	Contact telephone numbers and fax no. and email address	
5.	Current operational areas of work	
6.	Turnover for last three years	
7.	Approval/registration with any Govt./Agency	
8.	Details of expertise available in the production of parachutes	
9.	Regular manpower available on roll	
10.	Available in house analysis facility, quality assurance/quality control facility	
11.	Area of work where expertise available, please elaborate (fabrication of parachutes and related accessories)	
12.	Similar work done for any government agency such as DRDO/OEF/DGOF	
13.	Any other credentials in the subject area	
14.	Acceptance of ADRDE terms and conditions	