Military Combat Parachute System

ADRDE has developed 'Military Combat Parachute System (MCPS)' as per JSQR No: 1670-1 (revised in 2022) for the Tri Services and Special Frontier Force. Military Combat Parachute System (MCPS) is a mode of insertion used by SF to penetrate paratroopers with combat load into designated area of operations. MCPS allows Paratroopers to jump from an aircraft and deploy their Parachutes at pre-determined Altitude, Navigate and Land Safely. MCPS system can be used in High Altitude High Opening (HAHO), High Altitude Medium Opening (HAMO) & High-Altitude Low Opening (HALO) modes as required for the particular scenario. The parachute system has been designed as per international standard and qualification test schedule (QTS) has been prepared in line with Parachute Industry Association (PIA) and approved by Centre for Military Airworthiness and Certification (CEMILAC). Accordingly, various qualification of system was carried out. Based on CEMILAC has accorded the certification of various system of MCPS.

1 MCPS Configuration

Sl No	System Details		Design Agency
A.	**Parachute System**		**ADRDE**
	i.	Main Canopy Assembly	
	ii.	Reserve Canopy Assembly	
	iii.	Container with Harness	
	iv.	Carrying bag	
	v.	Automatic Activation Device (Military)	
	vi.	Double Deployment Bag for Static Line (DDBSL)	
	vii.	Bottom of container throw out pilot chute (BOC) components	
	viii.	Oxygen pocket	
	ix.	Radio/ Communication Pocket	
	x.	HAHO seat	
	xi.	Ruck Sack/PDB	
	xii.	Satellite Navigation System	
	xiii.	Magnetic Compass	
	xiv.	Altimeter	
B.	**High Altitude Oxygen Breathing System**		**DEBEL**
C.	**Navigation Equipment**		**ADRDE**
D.	**Individual Gear**		**DEBEL**

Interested industries are requested to forward their Expression of Interest (EoI) (with attachments of supporting documents) to **Director, Aerial Delivery Research and Development Establishment (ADRDE)** with a copy to Director DIITM, DRDO HQ (no attachments are required to be forwarded to DIITM) on following address:-

Director

Aerial Delivery Research and Development Establishment (ADRDE)
PO Box 51, Station Road
Agra Cantt - 282001
Phone : 0562 – 2258200/201
Fax : 0562-2251677/2258203
E-mail : director.adrde@gov.in

Copy to

Director
Directorate of Industry Interface & Technology Management (DIITM)
Room No 447, DRDO Bhawan, DRDO HQrs, Rajaji Marg, New Delhi – 110011
Phone: 011-23013209/ 23015291
Fax: 011-23793008
Email: diitm.hqr@gov.in

All industries interested in seeking ToT are requested to apply in the format given below. Kindly fill in the fields. The list of documents to be attached is provided in Annexure – I. Kindly provide the reference of page no. of supporting document in the relevant field of form.

PART-1

General Information

(Please enclose documents in support of information provided)

1.	**Name of the Technology requested for Technology Transfer (Technology name and concerned Lab, Category)**	
2.	**Name of the industry/ organization**	
3.	**Complete Address and other details**	
	Registered Office State Phone No Fax Email Website	
	Factory State Phone No Fax Email Website	
4.	**Point of Contact** Name Designation Address Mobile No Ph No Email ID	
5.	**NAME OF CMD/ MD /PARTNERS/ PROPRIETOR/ etc** Name Designation Address Mobile No Ph No Email ID	
6.	**Date of Incorporation of company**	
7.	**Foreign Direct Investment in company (if any in %)**	
8.	**Shareholding pattern**	
9.	**Turn over as per Audited Balance Sheet for the**	

	preceding three years. Year ____ Year ____ Year ____	
10.	**Annual budget for R&D during last three years (if any)** Year ____ Year ____ Year ____	
11.	**Income Tax returns for the preceding three years period** **Year** ____ **Year** ____ **Year** ____	
12.	**Nature of company** DPSU, Private Limited, Public Limited, Partnership, Proprietary, Ex- Serviceman Unit	
13.	**Category of industry** Large Scale, Medium Scale, Small Scale, Micro, Startup	
14.	**MSME Registration No**	
15.	**Certificates of registration as a manufacturing unit, if any.**	
16.	**If Startup, DPIIT Registration No**	
17.	**UDYOG AADHAR No**	
18.	**PAN Number**	
19.	**Details of Industrial license for defence manufacturing issued by DPIIT (if any)**	
20.	**Details of PESO license (if any)**	
21.	**GST Number**	
22.	**Nature of business** Manufacturing/ Sole Selling or Authorized Agent/ Assembler/ Traders/ Dealer/ Processor/ Repacker/ Others	
23.	**Details of current products and services** Products and services Supplied (please specify Govt/ Domestic market/ Export)	
24.	**Record of past performance** (e.g., Supply orders executed against of Ministry of Defence orders, Public Sectors and Paramilitary Forces, if any).	
25.	**Details of registration** with NSIC / SSI, DGS&D, other Defence Department, other Govt. Dept, membership of	

	FICCI/ASSOCHAM/CII or other Industrial Association **(Attach relevant copies of registration letters)**	
26.	**Have you already taken any technology from DRDO** (If yes, give details attaching separate sheet) Name of the Technology, Lab, Year, License number & Status	
27.	**ISO/ ISI certification or any other certification** (If yes, give details)	
28.	**Relevant clearances form the authorities/ ministries** (if any)	
29.	**Capacity and capability to undertake developmental work and to accept attendant financial and commercial risks.**	
30.	**Capacity/capability to market the product through the marketing network, sales and service network, reliability to maintain confidentiality.**	

PART-2

Infrastructure and other Information

1.	**Total area of factory** Covered (m^2), Uncovered (m^2), Bonded space available (m^2)	
2.	**Ownership of factory** Self-owned, partnership, rental	
3.	**Electric power** Sanctioned Installed Standby (if any)	
4.	**Availability of adequate infrastructure** (List of machines and their production capacities) and technical expertise	
5.	**Name of bank & A/c No Name of bank**	

	A/c type A/c no Address of the bank Phone: Email:	

6. Details of current products:

S.No	Type	Description	Licensed/installed capacity	Annual production for preceding 3 years

7. Details of foreign collaboration, if any

S.No	Product	Name and address of collaborator	Year	Remarks

8. Details of products developed for services

S.No	Nomenclature of stores	Order No. and date	Remarks

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9. Please give details of important facilities & infrastructure as per following format for:

(a) Production
(b) Unconventional, special m/c
(c) Testing & quality control facilities

S.No	Description of m/c	Make & model	Qty	Date of purchase	Remarks

10. Furnish the following details with relevant certificates and documents

(a) R&D facilities available :
(b) Inspection quality control of raw material components :
(c) Assistance from central agency for testing / calibration etc.:
(d) laboratory and drawing office facility :

11. Principal customers:

S. No	Name & address	S.O No and date	Date of last supply	Products supplied	Value

12. Future plans (if any) in respect of expansion programme/ installation of additional machines/ test facilities etc.

13. Name of the technology requested for transfer

- (give self-assessment of your capability to absorb the technology)

14. Details of employee as on date on firm's pay roll

PERMANENT				
Category	Post Held	Number	Qualification	Total Service
Technical	Prod. Manager Q.C. Manager Supervisor Testing Staff (QC) Skilled workers Unskilled workers, etc			
Administrative	Purchase Manager Accounts Officer Office Superintendent Clerical Others, etc			

TEMPORARY				
Category	Post Held	Number	Qualification	Total Service
Technical	Prod. Manager Q.C. Manager Supervisor Testing Staff (QC) Skilled workers Unskilled workers, etc			
Administrative	Purchase Manager Accounts Officer Office Superintendent Clerical			

	Others, etc			

DECLARATION :

I / we confirm that the information furnished in Part 1 & 2 above is correct. In the event of any information given by me / us is found incorrect / false at any time, I / we understand our EoI for ToT will be cancelled/ rejected without notice, beside any other appropriate action against me / us.

Industry seal

Authorized signatory

Name(s) in capital

Designation and seal of authorized signatory

Date:

Place:

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.

(s) Application cum Industry Assessment Form.