

## Parachute System for Anti-Tank Minelet (ATM) for PINAKA

ADRDE has design and developed Parachute system for anti-Tank Minelet (ATM) for PINAKA. This ATM has been developed by ARDE, Pune and launched from long Range Artillery Multi-Barrel Rocket System Known as 'PINAKA', Anti-Tank Minelets are stacked symmetrically positioned in layers along axis inside the warhead of PINAKA rocket and further covered with and outer ballistic casting.

The Parachute system is intended to stabilize Anti-Tank Minelet after its ejection from warhead and accurately control trajectory/ altitude to decelerate its velocity to reduce the impact for safe landing on the ground.

### 1. Parachute System Configuration

Sl. No.	System Details
A.	<b>Assembly for Vane Type Parachute System for ATM (Type-A) (1.5.21-00)</b>
	i. Canopy
	ii. Drag Plate
	iii. Connecting Cord
iv. Holding Plate	
B.	<b>Assembly for Vane Type Parachute System for ATM (Type-B) (1.5.22-00)</b>
	i. Canopy
	ii. Drag Plate
	iii. Connecting Cord
iv. Holding Plate	
C.	<b>Assembly for Vane Type Parachute System for ATM (Type-C) (1.5.23-00)</b>
	v. Canopy
	vi. Drag Plate
	vii. Connecting Cord
viii. Holding Plate	



**Parachute System for ATM**

Interested industries are requested to forward their Expression of Interest (Eoi) (with attachments of supporting documents) to Director, ADRDE with a copy to Director DIITM, DRDO HQ (without attachment) within 21 days of hosting on following address:-

**To,**

**The Director**

**Aerial Delivery Research & Development Establishment, Agra**

**PB No-51, Agra Cantt.,**

**Pin-282001,**

**Phone: 0562-2258200**

**Fax: 0562-2251677**

**Email: [director.adrde@gov.in](mailto:director.adrde@gov.in)**

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

**The 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\[dot\]hqr\[at\]gov\[dot\]in](mailto:diitm[hqr[at]gov[dot]in)**

All Industries interested in seeking ToT are requested to furnish details in the format given in Part-1 & Part-2 below. 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 also. The list of documents to be attached is provided in Annexure-I.

## **PART-1**

### **General Information**

(Please enclose documents in support of information provided)

<b>1</b>	<b>Name of the Technology requested for Technology Transfer (Technology name and concerned Lab, Category)</b>	
<b>2</b>	<b>Name of the industry/ organization</b>	
<b>3</b>	<b>Complete Address and other details</b>	
	<b>Registered Office</b> State Phone No Fax Email Website	
	<b>Factory</b> State Phone No Fax Email Website	
<b>4</b>	<b>Point of Contact</b> Name Designation Address Mobile No Ph No Email ID	
<b>5</b>	<b>NAME OF CMD/ MD /PARTNERS/ PROPRIETOR/ etc</b> Name Designation Address Mobile No Ph No Email ID	
<b>6</b>	<b>Date of Incorporation of company</b>	
<b>7</b>	<b>Foreign Direct Investment in company (if any in %)</b>	
<b>8</b>	<b>Shareholding pattern</b>	
<b>9</b>	<b>Turn over as per Audited Balance Sheet for the preceding three years.</b> Year _____ Year _____ Year _____	
<b>10</b>	<b>Annual budget for R&amp;D during last three years (if any)</b> Year _____ Year _____ Year _____	
<b>11</b>	<b>Income Tax returns for the preceding three years period</b> Year _____ Year _____ Year _____	
<b>12</b>	<b>Nature of company</b> DPSU, Private Limited, Public Limited, Partnership, Proprietary, Ex- Serviceman Unit	

13	<b>Category of industry</b> Large Scale, Medium Scale, Small Scale, Micro, Startup	
14	<b>MSME Registration No</b>	
15	<b>Certificates of registration as a manufacturing unit, if any.</b>	
16	<b>If Startup, DPIIT Registration No</b>	
17	<b>UDYOG AADHAR No</b>	
18	<b>PAN Number</b>	
19	<b>Details of Industrial license for defence manufacturing issued by DPIIT (if any)</b>	
20	<b>Details of PESO license (if any)</b>	
21	<b>GST Number</b>	
22	<b>Nature of business</b> Manufacturing/ Sole Selling or Authorized Agent/ Assembler/ Traders/ Dealer/ Processor/ Repacker/ Others	
23	<b>Details of current products and services</b> Products and services Supplied (please specify Govt/ Domestic market/ Export)	
24	<b>Record of past performance</b> (e.g., Supply orders executed against of Ministry of Defence orders, Public Sectors and Paramilitary Forces, if any).	
25	<b>Details of registration with</b> NSIC / SSI, DGS&D, other Defence Department, other Govt. Dept, membership of FICCI/ASSOCHAM/CII or other Industrial Association <b>(Attach relevant copies of registration letters)</b>	
26	<b>Have you already taken any technology from DRDO</b> (If yes, give details attaching separate sheet) Name of the Technology, Lab, Year, License number & Status	
27	<b>ISO/ ISI certification or any other certification</b> (If yes, give details)	
28	<b>Relevant clearances form the authorities/ ministries</b> (if any)	
29	<b>Capacity and capability to undertake developmental work and to accept attendant financial and commercial risks.</b>	
30	<b>Capacity/capability to market the product through the marketing network, sales and service network, reliability to maintain confidentiality.</b>	

## PART-2

### Infrastructure and other Information

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

**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**

<b>PERMANENT</b>				
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			

<b>TEMPORARY</b>				
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 Supporting 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's
- (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 industrial license for defence manufacturing be provided by the industry seeking ToTs.
- (s) Duly filled Application cum Industry Assessment Form (as per **annexure** attached)