

## **High-Speed Expendable Aerial Target (HEAT)- ABHYAS**

ABHYAS is a High-speed Expendable Aerial Target (HEAT), designed and developed by Aeronautical Development Establishment (ADE), DRDO, Bengaluru . Various ABHYAS configurations with different payloads towards RCS, IR and visual augmentation required for efficient training of tracking and targeting the flying objects have been successfully flight tested.

ABHYAS is integrated with miniature cutting edge technologies, autonomous flying with an autopilot with navigation system compact laptop based Ground Control System (GCS) and is launched by the booster is flown with a small gas turbine engine.

ABHYAS is capable of artillery, air-to-air combat, battleship target practices by Tri-services and evaluating newly developed missiles by DRDO. Its configuration can be further tailored with minor modifications for conducting various missions such as Kamikaze drone, loitering munitions, Manned Unmanned Teaming, decoy etc. ABHYAS is realized as a cost effective system ready for production with export potential.

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

**To,  
Director  
Aeronautical Development Establishment (ADE)  
New Thippapasandra, Bangalore – 560075  
Tele: 080-25057841 / 7842  
Fax : 080 - 25283188  
Email :director[dot]ade[at]gov[dot]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  
Phone No. 011-23013209  
Fax No.011-23793008**

All industries interested in seeking ToT are requested to apply in the format given below along with supporting documents (as applicable). Kindly provide 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**

### **1.1.1 General Information**

<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>4.</b>	<b>Date of Incorporation of company</b>	
<b>5.</b>	<b>Foreign Direct Investment in company (if any in %)</b>	
<b>6.</b>	<b>Shareholding pattern</b>	

7.	<b>Turn over as per Audited Balance Sheet for the preceding three years.</b> Year _____ Year _____ Year _____	
8.	<b>Annual budget for R&amp;D during last three years (if any)</b> Year _____ Year _____ Year _____	
9.	<b>Income Tax returns for the preceding three years period</b> Year _____ Year _____ Year _____	
10.	<b>Nature of company</b> DPSU, Private Limited, Public Limited, Partnership, Proprietary, Ex- Serviceman Unit	
11.	<b>Category of ind12 ptuistry</b> Large Scale, Medium Scale, Small Scale, Micro, Startup	
12.	<b>MSME Registration No</b>	
13.	<b>Certificates of registration as a manufacturing unit, if any.</b>	
14.	<b>If Startup, DPIIT Registration No</b>	
15.	<b>UDYOG AADHAR No</b>	
16.	<b>PAN Number</b>	
17.	<b>Details of Industrial license for defence manufacturing issued by DPIIT (if any)</b>	
18.	<b>Details of PESO license (if any)</b>	
19.	<b>GST Number</b>	
20.	<b>Nature of business</b> Manufacturing/ Sole Selling or Authorized Agent/ Assembler/ Traders/ Dealer/ Processor/ Repacker/ Others	
21.	<b>Details of current products and services</b> Products and services Supplied (please specify Govt/ Domestic market/ Export)	
22.	<b>Record of past performance</b> (e.g., Supply orders executed against of Ministry of Defence orders, Public Sectors and Paramilitary Forces, if any).	
23.	<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>	
<b>24.</b>	<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	
<b>25.</b>	<b>ISO/ ISI certification or any other certification</b> (If yes, give details)	
<b>26.</b>	<b>Relevant clearances form the authorities/ ministries</b> (if any)	
<b>27.</b>	<b>Capacity and capability to undertake developmental work and to accept attendant financial and commercial risks.</b>	
<b>28.</b>	<b>Capacity/capability to market the product through the marketing network, sales and service network, reliability to maintain confidentiality.</b>	

## **PART-2**

### **1.1.2 Infrastructure and other Information**

**1.1 Total area of factory**

Covered (m<sup>2</sup>),  
Uncovered (m<sup>2</sup>),  
Bonded space available (m<sup>2</sup>)

**2.1 Ownership of factory**

Self-owned, partnership, rental

**3.1 Electric power**

Sanctioned  
Installed  
Standby (if any)

**4.1 Availability of adequate infrastructure** (List of machines and their production capacities) and technical expertise

**5.1 Name of bank & A/c No**

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

### **Appendix 'A' Details of current products:**

Sl.no	Type	Description	Licensed/installed capacity	Annual production for preceding 3 years
.				

### **Appendix 'B' Details of foreign collaboration, if any**

Sl.no	Product	Name & address of collaborator	Year	Remarks
.				

### **Appendix 'C' Details of products developed for services**

Sl.no	Nomenclature of stores	Order no and date	Remarks
.			

**Appendix 'D' Please give details of important facilities & infrastructure as per following format for:**

- Production
- Unconventional, special m/c
- Testing & quality control facilities

Sl.no	Description of m/c	Make & model	Qty	date of purchase	Remarks
.					

**Appendix 'E' Furnish the following details with relevant certificates and documents**

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

**Appendix 'F' Principal customers:**

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

**Appendix 'G' Future plan (if any) in respect of expansion programme installation of additional machines/ test facilities etc.**

**Appendix 'H' Name of the technology requested for transfer (give self-assessment of your capability to absorb the technology)**

**Appendix 'I' 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			

**12 pt**

**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 Eol 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

dated:

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 from 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.