

## **UAV Launched Precision Guided Missile Version-2 (ULPGM-V2)**

ULPGM V2 is a stand-off, autonomous, air-to-surface weapon released from UAV capable of hitting and destroying varied types of ground targets at ranges in excess of 2.5 km. The missile suite has been designed considering current state of the art technology and is configured with dual channel strapped down seeker, dual thrust double based solid smoke less propellant, digital electromechanical Actuation system.

### **1. Salient feature**

- Passive Homing with Day / Night Imaging Seeker
- High Subsonic Impact Velocity
- Lock On Before Launch (Optional Post Launch AP Selection)
- Warhead (PF, PCB and Anti-Armour options)
- Dual Thrust Double Base Solid Smokeless Propellant
- Digital electromechanical actuation system
- Integrated Drone and Missile Fire Control System for easy operation





### **Minimum Facility/ Capability required at the time of submission of EoI**

#### **Capability:**

- Experience in realization of Missile sub systems and integration
- Explosive and warhead handling capability

#### **Facilities:**

- Class 10000 clean room facility for integration of optical elements and Imaging sensors.
- EPA facility for Seeker and other subsystem integration and testing.
- Armored Room facility for Missile Integration and Checkout.
- Soldering and cable harness facility.
- Environmental test facility/ NABL accredited lab to carry out AT/QT tests on sub-systems.
- EMI/EMC facility/ NABL accredited lab to carry out requisite EMI/EMC tests.

#### **Licenses**

- Industry applying for ToT must have all requisite licenses including Industrial license for manufacturing defence items as per Ministry of Commerce and Industry/ Department for Promotion of Industry and Internal Trade, Press Note 1, 2019 series.
- License for handling of explosive: Industry applying for ToT also must have either a PESO license to handle Explosives or a collaboration with other PESO licensed explosive industry for explosive handling requirement under this ToT.

### **Facility/ Capability required at the time of Technology absorption**

- Warhead and propulsion system integration facility
- Portable CMM for alignment inspection, weight & CG measurement

### **Turnover Criteria**

- Minimum average annual turnover for last 03 financial years, ending 31<sup>st</sup> March of the previous financial year, should not be less than Rs 100 Cr.

### **Requirements to issue Technology Absorption Certificate**

- Realization of 3 missiles (1-PCB, 1-AA, 1-PF warhead) on No Cost - No Commitment (NC-NC) basis under the guidance of DRDO team
- Successful flight trials with the realized missiles

After satisfactory realization and flight trail of the 3 Nos of missiles produced by the ToT holder industry, Technology absorption certificate will be issued.

The expenditure incurred for testing, trial and evaluation shall be borne by the industry seeking ToT.

Interested Industries are requested to forward their Expression of Interest (EoI) to Director, RCI, Hyderabad along with all supporting documents with a copy of EoI (without supporting documents) to Director DIITM, DRDO HQ on following address:-

Director,  
Research Centre Imarat (RCI)  
Vignayana Kancha(PO), Hyderabad, 500069  
Phone: 040 2430 6222  
Email ID: director[dot]rci[at]gov[dot]in, vara[dot]9573647675[at]gov[dot]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[dot]hqr[at]gov[dot]in

All industries are requested to fill in the form given below and provide supporting documents (as applicable). Kindly provide the reference of page no. of supporting document in the relevant field of form. The list of documents to be attached is provided in Annexure – I.

### **PART-1**

## General Information

(Please enclose documents in support of information provided)

1.	<b>Name of the Technology requested for Technology Transfer (Technology name and concerned Lab, Category)</b>		
2.	<b>Name of the industry/ organization</b>		
3.	<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 _____		
4.	<b>Point of Contact</b> Name _____ Designation _____ Address _____ Mobile No _____ Ph No _____ Email ID _____		
5.	<b>NAME OF CMD/ MD /PARTNERS/ PROPRIETOR/ etc</b> Name _____ Designation _____ Address _____ Mobile No _____ Ph No _____ Email ID _____		
6.	<b>Date of Incorporation of company</b>		
7.	<b>Foreign Direct Investment in company (if any in %)</b>		
8.	<b>Shareholding pattern</b>		
9.	<b>Turn over as per Audited Balance Sheet for the preceding three years.</b> Year _____ Year _____ Year _____		
10.	<b>Annual budget for R&amp;D during last three years (if any)</b> Year _____ Year _____ Year _____		
11.	<b>Income Tax returns for the preceding</b>		

	<b>three years period</b> <b>Year</b> ____ <b>Year</b> ____ <b>Year</b> ____		
12.	<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</b> with 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</b>		

	<b>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> ), Uncovered (m <sup>2</sup> ), Bonded space available (m <sup>2</sup> )	
2.	<b>Ownership of factory</b> Self-owned, partnership, rental	
3.	<b>Electric power</b> Sanctioned Installed Standby (if any)	
4.	<b>Availability of adequate infrastructure</b> (List of machines and their production capacities) and technical expertise	
5.	<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:**

1. Memorandum and Articles of Association (Should be incorporated as per Indian Companies Act, as amended time to time)
2. Certificates of registration as a manufacturing unit, if any.
3. Audited Balance Sheet for the preceding three years.
4. Income Tax returns for the preceding three-year period
5. 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.
6. Annual budget for R&D during last three years.
7. Numbers and details of IPR or patents, etc., held by the company.
8. Number of technically or professionally qualified personnel employed.
9. Record of past performance (e.g., Supply orders executed against of Ministry of Defence orders, Public Sectors and Paramilitary Forces, if any).
10. Availability of adequate infrastructure (List of machines and their production capacities) and technical expertise.
11. List of testing and support equipment.
12. ISO/ ISI certification or any other certification.
13. Relevant clearances from the authorities/ ministries (if any).
14. Capacity and capability to undertake developmental work and to accept attendant financial and commercial risks.
15. Capacity/capability to market the product through the marketing network, sales and service network, reliability to maintain confidentiality.
16. Industrial license for defence manufacturing issued by DPIIT (if any).
17. PESO and DPIIT license for explosive handling if ToT is for high energy Material, explosives, propellants, and component/ system dealing with it etc. Any other special license compliance requirement to be specified by the lab.
18. Undertaking from company seeking ToT that none of its Directors, Independent Directors, non-executive Directors, Key management personnel is involved in any corrupt practices, unfair means/ illegal activities.