

BAPL/AV-M/ABL/EOI/ 01

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Expression of Interest (EOI)

FABRICATION AND INTEGRATION OF AIRBORNE LAUNCHER
SYSTEM



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1 Introduction

BrahMos Aerospace Private Limited, a joint venture between India's Defence Research and Development Organization (DRDO) and Russia's NPO Mashinostroyeniya, is a leading aerospace and Defense Corporation specialized in Design, Development and Production of supersonic cruise missile systems. BrahMos missile, a versatile weapon deployable from multiple platforms, the company plays a critical role in enhancing India's defense capabilities and is actively pursuing advancements in missile technologies, solidifying its position as a key player in the global defense sector.

BAPL invites Expressions of Interest (EOI) from qualified manufacturers for Fabrication and Integration of Airborne Launcher system. Responses should demonstrate adherence to relevant Aerospace standards, robust quality control procedures, and a proven track record in delivering reliable solutions for demanding defense applications.

Interested Manufacturing Industry is advised to read the EOI document, Terms and Conditions and other details carefully relating to the work contemplated in the Fabrication and Integration of Airborne Launcher system.

2 Objective

The EOI aims to develop new vendors qualifying to the technical requirements. The information collected will be used to identify suitable partners for subsequent phases of vendor development activity.



3 Eligibility Criteria

Interested Manufacturing Industries must meet the following minimum criterion in order to apply for EOI:

- a) The Manufacturing Industries must be an Indian Registered Partnership / LLP / Company with a majority stake of the company held by a Resident and Citizen of India.
- b) The average annual turnover of the interested partner during the last three years shall be at least INR 50 Cr. Audited Annual Financial Statements in support of the same shall be furnished. The long-term credit rating by ICRA/CRISIL or equivalent as on date of submission of EOI shall be "A" or above.
- c) QMS Certifications AS9100D is mandatory, and the valid Certification shall be submitted along with EOI.
- d) SAMAR Level 3 Certification/CIS/equivalent Certification is mandatory, and the valid Certification shall be submitted along with EOI.
- e) Experienced technical manpower availability
- f) Experience on working with inspection agencies viz., MSQAA, R&QA, RCMA etc. is mandatory.
- g) Data and Cyber Security Certification is mandatory.
- h) Prior experience of Study & Conversion of Design documentation in to Manufacturing Process Sheet, Heat Treatment Process Sheet, Surface Treatment Process Sheet and Welding Process Sheet is preferred.
- i) In-house Design and manufacture of Machining fixtures & Jigs, Welding Fixtures, Assembly fixtures for realization of nearly 200 type of components for various assemblies.
- j) Requirement of minimum 15,000 Sq. Meter Space for Stores, Machine Shop, Assembly, Integration bay with storage racks and Pressure test Facility, Heat Treatment & Surface Treatment facilities and Release Test Facility.
- k) Stringent Quality Control and Traceability system.
- l) Stores - Minimum 3000 Sq Meter for storage of 40 Tons material (30 sets minimum at a time).
- m) Humidity controlled air-conditioned storage for LRUs – Pneumatic systems, Pyro & Gas Generator devices, Cables, connectors and Electronic and Power supply Modules.



n) Capability/Capacity for following **Machining Facilities**

- In-house 5 axes CNC bed facility for machining, milling and drilling of high accuracy aluminum 5000 mm long 'U' Aluminum profile extrusion.
- Raw material cutting & sizing to required size
- CNC turning and milling machines with capability of precision machining of MDN 250A
- CNC Milling of aluminium channels
- Vertical Turning Lathe
- 5- Axis Milling machine (for handling assembly of 300x500x500mm height)
- EDM Machine / Wire cutting facility
- Precision Grinding
- Laser Cutting
- Launcher assembly stage machining, milling and finish boring at 4.5 meter machine

o) Capability/Capacity for following **Welding facilities**

- TIG welding of 15-5 PH Steel as per WPS and PQR
- Clean Room with Temperature & Humidity Control (100000 ppm)

p) Capability/Capacity for following **Heat Treatment facilities**

- Heat treatment of Maraging steel 250 plates & rods, 15-5PH plates & rods, AA6061 sheets, AA2219 sheets

q) Capability/Capacity for following **Surface Treatment facilities**

- In-house Anodization (Chromic acid/ Hard anodisation) of 300x 300 x 5000 mm long aluminium channels
- Chemical Passivation
- Cadmium plating as per HPS227 with phosphating
- Hard chrome plating
- Brush & Spray Painting facility

r) Capability/Capacity for following **Inspection and Testing facilities**

- Pressure test facility (pneumatic) and panel for charging pneumatic systems using nitrogen.
- Armoured Chamber for conducting Leak Check of pneumatic systems.
- NDT facilities- MPI, UT, DP.
- CMM (1500 mm for shorter components, 5000 mm for large size components)



- Laser Tracker facilities CMM (min length 5000 mm)

r) Dedicated Quality team

- Structured quality team as per AS9100 valid certificate or equivalent
- 100% inspection of dimensions as per drawing by QC
- Vendor evaluation by MSQAA & BAPL is mandatory
- Quarantine facility of rejected parts
- Records to be maintained for 15 years
- Consolidation of all reports as per QAP
- Stringent quality control or parts required, Deviated parts subject to rejection
- Stage inspection & Final inspection by MSQAA or its representative

s) Technology development for fabrication, fixtures, dies, tooling for integration

- In-house Design of Dies for realising fairings using aluminium
- Design of C.G measurement Stands, Integration Fixtures,
- Development of article ground release test facility
- Process Plan of every component, sub assembly and assembly to be generated
- Design of dummy article (2500 kg) for qualification and ground release tests
- Design of launcher level inspection go/no go gauge fixture for interface checks
- Inspection gauges for critical stages of integration
- Design of tooling for crimping of spherical ball joints
- Design of lifting beam of launcher

t) Previous experience in manufacturing and Supply of launcher system, for Defense/Aerospace/Space industry. Shall be supported with contract references.

u) Capability to carry out comprehensive testing (In-house/ NABL labs) to conform to mandatory acceptance tests as per Technical Specifications.

v) The manufacturer shall ensure minimum service life of 20 years for the sections/assemblies manufactured for BAPL.

w) Failure rate of last three financial years shall be declared; rejection shall be bare minimum.

x) The inspection of the components/assemblies is to be carried out by Missile Systems Quality Assurance Agency.



- y) Capability to procure aerospace grade materials (AMS) from govt and private agencies and Capability to procure, store consumables such as paints, grease, thread sealants etc.
- z) Handling of pyros and gas generator charges, licence if any.

4 EOI Submission

Interested Manufacturing Industries are requested to submit their response as per Format enclosed in **Annexure-A as per Demand Notification**.

5 Proof of compliance

Vendors to provide proof of compliance for 3 (a) to (z)

6 Evaluation Criteria

The evaluation of responses will be based on the following criteria:

- Technical capabilities and compliance as per EoI.
- Production capacity and lead time for high-reliability products.
- Quality management system and compliance with Defence and Aerospace Standards
- Financial stability and references in the defense sector.
- Infrastructure/Facility evaluation.
- Cyber Security Certifications and its compliance.

The shortlisted Industries will be called up for further processing of the subsystems mentioned in Demand Notification.

7 Confidentiality

All information provided in response to this EOI will be treated as confidential and may be subject to non-disclosure agreements.

8 Disclaimer

This EOI does not constitute a commitment for placement of contract/P.O and BAPL reserves the right to accept or reject any or all the responses.

9 Contact Information

For any inquiries, please contact: Refer demand notification



Expression of Interest

Demand Notification Ref.: _____

Demand Notification Date: _____

S.No.	Particulars	Details to be filled up by FIRM	Supporting Document
a.	Name Of the Firm & Address		
b.	Firm's Contact Person & Details		
c.	Category of Industry (Raw Material /Conversion/Standard Items/Ready to use Components/Other) *		Company Registration Document with State/Central Government
d.	Nature of the Company (Pvt. Ltd. / Ltd./PSU/DPSU etc.)		
e.	Organizational structure		Self-attested document
f.	The average annual turnover of previous three (3) financial year.		Annual Financial Statements
g.	What is the core competence of the company?		-
h.	What are principal products(s)?		-
i.	How long has company been in business as presently organized?		-
j.	List of principal Subcontractors, along with processes subcontracted		-
k.	List of principal customers to whom the vendor supplied stores in the past two (2) years.		-
l.	List of principal companies and /or Government agencies which have surveyed and approved the firm with scope of approval.		Copy of attestation document
m.	Contract /S.O. No. from Defence/Missile complex Labs along with status of order. (Completed/Ongoing/Short closed)		-
n.	Certification - Quality (ISO/AS/SAMAR)		Copy of latest certificate
o.	Employee Strength (Design, Quality, Production, Welding, Testing (Skilled / Semi- Skilled/Casual) Other)		-



S.No.	Particulars	Details to be filled up by FIRM	Supporting Document
p.	Certification of skilled manpower (if any)		Copy of latest certificate
q.	Attrition rate of employee		-
r.	Failure incidence reported by customer in last three years in PPM and percentage		-
s.	Average import percentage in products manufactured and delivered in last financial year		-
t.	Security compliance certification (If any). Shall specify the road map and certification plan if not existing.		Copy of latest certificate/ Road Map
u.	List of available equipment and machinery (e.g. CNC machines, Testing equipments and Welding equipments etc.)		
v.	Maximum Assembly size and complexity handled		
w.	Production capacity - Lead time for prototype and production runs		
x.	Inventory Management System		
y.	Controlled Storage Facility		
z.	Cybersecurity and data security practices		Compliance Certificate/Self certification

Note : The firm shall enclose supporting documents as applicable.

Declaration: The details provided above are true and it is understood that BAPL reserves the right to accept or reject the EOI filed herein.

Authorized Signature with Name & Company Stamp.

