

Expression of Interest (EOI)

Title: Motor Casings & metallic accessories
Last Date: 30th July 2025
Submitted to: Project Director (BrahMos)
BrahMos Aerospace Private Limited
BrahMos Complex, Adj. DRDL Rear
Gate Kanchanbagh, Hyderabad – 500
058 Tel: 91-40-24087220/7209

DEMAND NOTIFICATION
INVITATION FOR EXPRESSION OF INTEREST FOR
MOTOR CASINGS & METALIC ACCESSORIES

BrahMos Aerospace, a joint venture between India's Defence Research and Development Organization (DRDO) and Russia's NPO Mashinostroyeniya, is a leading aerospace and defense corporation specializing in the design, development, and production of supersonic cruise missile systems.

BAPL invites Expressions of Interest (EOI) from prospective manufacturing industries for the fabrication of Motor Casings & metallic accessories of BrahMos Booster.

Name of Assembly: Booster Assembly.

Scope of work:

To fabricate and qualify the same as per technical requirement which will be shared to shortlisted manufacturers.

Description:

This Rocket Motor consists of Two Concentric Motors i.e. B1 (LTM - Titanium Alloy) and B2 (HTM - 11-10 PH Steel) located in Tandem/Concentric. B2 motor casing assembly is 05 m long dual diameter with maximum diameter of 500 mm & B2 motor casing assembly has two sub-assemblies i.e. Inner & Outer shell assemblies with maximum length of 500 mm and dia of 620 mm. Inner shell assembly has a provision for placing the four nozzles, igniter, jet vane brackets and pressure sensors.

Mechanical processes involved:

- Machining
- Auto/semi auto Welding
- Heat Treatment & Annealing
- Surface Treatment

Testing Requirement:

- High Pressure Hydraulic Test setup (up to 300 bar)
- Armoured Chamber/Pit for Burst Testing
- NDT facilities
- Inspection facilities

The eligibility criteria and instruction for submission of EOI are available at our website www.brahmos.com. Only eligible vendors meeting the requirements specified in EOI document "BAPL/PROP/EOI/FAB/01" shall only apply.

Eligible manufacturing industries may furnish their Expression of Interest in the prescribed format (Annexure A of EOI document BAPL/PROP/EOI/FAB/01) in Sealed Envelope quoting our Reference No. BAPL/PROP/DN/001 with all essential information and supporting documents shall reach on or before 30 July 2025 [16:00 Hrs] to the following address:

PROJECT DIRECTOR (BRAHMOS)
BrahMos Aerospace Private Limited
BrahMos Complex, Adj. DRDL Rear Gate
Kanchanbagh, Hyderabad – 500 058
Tel: 91-40-24087220/7209

Note: BAPL reserves the right to accept or reject any or all responses. Mere compliance to the EOI terms does not guarantee further consideration for qualification in the procurement process.

Expression of Interest (EOI)

MOTOR CASINGS & METALLIC ACCESSORIES

PROPULSION, BRAHMOS

Hyderabad

July 9, 2025

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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 supply of Motor Casings & metallic accessories for BrahMos Booster Assembly. 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.

Intending Manufacturing Industries[s] are advised to read the EOI document, Terms and Conditions and other details carefully relating to the work contemplated in the Fabrication of motor casings & metallic accessories.

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) Inhouse Design and manufacture of Machining fixtures & Jigs, Welding Fixtures, Assembly fixtures for realization of nearly 100 type of components for various assemblies.
- j) Requirement of minimum 20,000 Sq. Meter Space for Stores, Machine Shop, Assembly & Proof Pressure test Facility, Heat Treatment & Surface Treatment facilities.
- k) Stringent Quality Control and Traceability system.
- l) Stores - Minimum 5000 Sq Meter for storage of 50 Tons material (50 sets minimum) with climate control.
- m) Experience in welding of high strength steels (MDN 250/11-10 PH) and Titanium alloy are preferred.

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

- CNC turning and milling machines with capability of precision machining
- CNC turn Mills (Bed length - 5m & Swing Dia – 600mm)
- Vertical Turning Lathe
- 5- Axis Milling machine (for handling assembly of Ø600mm & 500mm height)
- EDM Machine / Wire cutting facility
- Precision Grinding
- Laser Cutting

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

- Welding machines (min 5000 mm length)
- Welding Robot – TIG (11-10 PH Steel & Titan31C)
- Clean Room with Temperature & Humidity Control (100000 ppm)

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

- Vacuum Furnace for annealing of Titan31C (Dia 650 x 1000 L), 750°C (min) Temp
- Electric Furnace (Dia 600 x 5500 mm length), 550oC (min) Temp

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

- Anodization (Hard, Ti Pulse & Colour)
- Chemical Passivation
- Brush & Spray Painting facility

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

- High pressure hydraulic (Oil & Water)
- Armoured Chamber/Pit for conducting High Pressure Strength & Leak Check
- NDT facilities- RT enclosures, MPI, UT, DP & FDP
- CMM (min length 3000 mm & extended till 5000 mm with support fixtures)

s) Previous experience in manufacturing and Supply of motor casings & metallic accessories for Defense/Aerospace/Space industry. Shall be supported with contract references.

t) Capability to carry out comprehensive testing (Inhouse/ NABL labs) to conform to mandatory acceptance tests as per Technical Specifications.

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

v) Failure rate of last three financial year shall be declared; zero rejection is preferred.

- w) The inspection of the components/assemblies is to be carried out by Missile Systems Quality Assurance Agency.
- x) Higher indigenous content is preferable.

4 EOI Submission

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

5 Evaluation Criteria

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

- Technical capabilities and experience in Defence applications.
- 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.
- Security Certifications and its compliance.

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

6 Confidentiality

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

7 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.

8 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		Company Registration Document with State/Central Government
b.	Firm's Contact Person & Details		
c.	Category of Industry (Raw Material /Conversion/Standard Items/Ready to use Components/Other) *		
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.