

BAPL/PROP/EOI/FF/01

Rev. 00

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Expression of Interest (EOI)

FLOW FORMING

PROPULSION, BRAHMOS

Hyderabad

December 5, 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 defence 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 Flow Formed Shells. 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 5 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 ISO 9001 is mandatory and AS9100D is preferable, 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 Process Sheets.
- i) Inhouse Design and manufacturing capability of Flow Forming mandrels, rollers, dies and punches, fixtures & Jigs are preferable.
- j) Requirement of minimum 2,000 Sq. Meter Space for Stores, Machine Shop, Inspection and Heat Treatment facilities.
- k) Stringent Quality Control and Traceability system.
- l) Stores - Minimum 200 Sq Meter for storage of material
- m) Experience in flow forming of high strength steels (MDN 250/11-10 PH) are preferred.
- n) Capability/Capacity for following **Machining Facilities**
 - CNC turning machines with capability of precision machining
 - Horizontal Turning Lathe
- o) Capability/Capacity for following **Flow Forming Facilities**
 - Workpiece Diameter: 300 mm to 500 mm

- Workpiece Length: up to 2600 mm for Forward Flow Forming and up to 1200 mm for Reverse Flow Forming
- p) Capability/Capacity for following **Heat Treatment facilities is preferable**
- Muffle Furnace 600 °C (min) Temp requirement
- q) Capability/Capacity for following **Inspection and Testing facilities**
- NDT facilities- MPI & UT (Preferrable)
 - CMM/Portable CMM (To measure length and diameters up to 2600 mm and 500 mm respectively)
 - Hardness Testers (HRC)
 - Dimensional Inspection Instruments
- r) Previous experience in flow forming of shells of Rocket Motor Casings for Defense/Aerospace/Space industry. Shall be supported with contract references.
- s) Capability to carry out comprehensive testing (Inhouse/ NABL labs) to conform to mandatory acceptance tests as per Technical Specifications.
- t) The manufacturer shall ensure minimum service life of 20 years for the sections/assemblies manufactured for BAPL.
- u) Failure rate of last three financial year shall be declared; zero rejection is preferred.
- v) The inspection of the components/assemblies is to be carried out by Missile Systems Quality Assurance Agency.

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 defence 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