

Expression of Interest (EOI)

METALLIC SUB-SYSTEMS (MSS)

Mechanical Systems – Supply Chain Management

Hyderabad

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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 of 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 Metallic Sub-Systems (MSS – 10 types of systems) for integration into BAPL's critical defense systems. Responses should demonstrate adherence to relevant Aerospace Standards, robust Quality Control procedures, and a proven track record in delivering reliable solutions for demanding Defence applications.

Intending Manufacturing Industries are advised to read the EOI document, Terms and Conditions, and other details carefully relating to the work contemplated in the procurement of MSS.

2 Objective

The EOI aims to develop new vendors qualifying to the technical requirements of Metallic Sub-Systems under consideration. 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 – skilled manpower for manufacturing & fabrication, assembly, testing, and inspection (ASNT Level-III, ISNT Level II/III, certified NDT personnel).
- 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 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 more than 300 types of components for various assemblies.
- j) Requirement of minimum 10,000 Sq. Meter Space for Stores, Machine Shop, Assembly & Integration Facility and Final Assembly, Heat Treatment & Surface Treatment facilities.
- k) Stringent Quality Control and Traceability system.
- l) Stores - Minimum 5000 Sq Meter for storage of 100 Tons material with climate control.
- m) Capability/Capacity for following **Machining Facilities**
 - CNC turning and milling machines with capability of precision machining
 - CNC Turn Mill
 - Vertical Turning Lathe
 - 5- Axis Milling machine
 - EDM Machine / Wire cutting facility
 - Precision Grinding
 - Laser Cutting
- n) Capability/Capacity for following **Fabrication facilities**
 - 3D – CNC Tube Bending
 - 300 T Hydraulic Press
 - Riveting facility
- o) Capability/Capacity for following **Welding facilities**
 - Orbital welding
 - Welding lathe
 - Welding machines- TIG, MIG Welding (Aluminium)
- p) Capability/Capacity for following **Heat Treatment facilities**
 - Vacuum Furnace for Brazing Operation
 - Neutral Salt bath Hardening & Tempering
 - Hardening, Tempering, Annealing, Solutionising & Ageing
 - Stress Relieving Treatment
 - Cold Stabilization Treatment
- q) Capability/Capacity for following **Surface Treatment facilities**
 - Anodization (Hard, Ti Pulse & Colour)
 - Electro-polishing
 - Case Hardening (Carburizing and Nitriding)
 - Zn – Ni Plating
 - Chemical Passivation
 - Hard Chrome plating
 - Electroless Nickel Plating
 - Zinc Cadmium Plating
 - Brush & Spray Painting facility

- r) Capability/Capacity for following **Inspection and Acceptance/Qualification Testing facilities**
- High pressure hydraulic (Oil & Water) and pneumatic facility
 - Armoured Chamber for conducting High Pressure Strength & Leak Check
 - Vacuum system for evacuation leak checks along with Helium Leak Detectors
 - Tank Cleaning facility using fluid
 - NDT facilities- RT, LPT, MPI, UT
 - Profile Projector
 - CMM
- s) Minimum experience of 10 years in Manufacturing and Supply of Mechanical Systems for Defense/Aerospace Industry, and the same shall be supported with contract references.
- t) Capability to carry out comprehensive testing (In-house/ 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) Availability of In-house research & development facility and reverse engineering capability is preferred.
- x) All the sub-assemblies are required to undergo stringent Periodic Testing which includes various environmental tests such as shock, vibration, bump, linear acceleration, thermal cyclic, etc. prior to its mounting on the final assembly.
- y) The inspection of the components/assemblies is to be carried out by Missile Systems Quality Assurance Agency.
- z) Experience in Subcontract management in the event of outsourcing the fabrication of components, special processes, testing, etc., if any, and shall be accessible to BAPL for audit/assessment.

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 informed for further discussions on the intended mechanical systems mentioned in Demand Notification.

6 Confidentiality

All information provided in response to this EOI will be treated as Confidential and shall be subject to Non-Disclosure Agreements.

7 Disclaimer

This EOI does not constitute a commitment for placement of contract / PO, 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.