BAPL/NGP/EOI/TSTF/01
Rev. 00
Date: 05.11.2026

Expression of Interest (EOI)

THERMOSTRUCTURAL TEST FACILITY

BrahMos Aerospace Nagpur
NAGPUR
November 5, 2026

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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 Defence Corporation specialized in Design, Development and Production of supersonic cruise missile systems. BrahMos missile, is 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 defence sector.

BAPL invites Expressions of Interest (EOI) from qualified vendors for establishment of Thermo-Structural Test Facility (TSTF) on Turn-Key Basis at Nagpur facility. Responses should demonstrate adherence to relevant Quality Control procedures and a proven track record in delivering reliable solutions for high pressure and temperature testing applications.

Intending vendors are advised to read the EOI document, Terms and Conditions, and other details carefully relating to the work contemplated in the establishment on TSTF.

2 Objective

The EOI aims to identify vendors, qualifying for the techno-commercial requirements for establishment of TST facility on Turn-Key basis. The information collected will be used to identify suitable partners for subsequent execution of facility establishment at BAPL Nagpur.

3 Eligibility Criteria

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

a) The vendors 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 should be at least INR 10 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 such as ISO 9001:2015, is preferable, and the valid Certification shall be submitted along with EOI.
d) Minimum 5 years of experience in handling PID cum Thyristor based Power Control / Infrared Heating System is mandatory.
e) Experience of handling turn-key projects is preferable.
f) Capability of In-house research, design & development in relevant areas is preferable.
g) Experience in Subcontract management of critical systems like Pneumatic systems, data acquisition and control, electrical sub-station systems, Thyristor based power control,PLC,PID etc. is preferable.
h) Capability to carry out comprehensive testing to validate the functionality and reliability of the systems under specified operating condition as per the Technical Specification.
i) Capability/Capacity in design, development, installation and commissioning of following sub-systems:
    - Thermal Testing/IR Heating systems. (approx. 09 MW power rating)
    - Pneumatic Pressure panel (max operating pressure: inlet 200 bar, outlet 20 bar)
    - Climatic chamber
    - Thyristor based Control of IR lamps/Power devices (approx. 01 MW power rating)
    - Data Acquisition and Control (Approx. 100 channels for thermocouple/pressure sensors)
    - PLC and PID based control systems

- Electrical Power distribution system, Earthing system and Electrical penetration system (for maximum 09 MW power)
- Pressure Vessel as per Boiler Standards. (Approx. Size 3m height, 1.5m diameter and operating pressure 20 bar, temperature 500^{o}C)
- Mechanical Test Rigs/Fixtures (5 Ton load bearing capacity)

4 EOI Submission

Interested vendors 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 fields of PID cum Thyristor based Power Control / Infrared Heating System.
- Installation, Commissioning and Testing experience in above mentioned fields.
- Financial stability and references in the aerospace/space/defence sector.
- Infrastructure/Facility evaluation.

The shortlisted vendors will be informed for further discussions on complete details of TSTF being realized as a Turn-key Project, 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(NDA).

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.