

DEMAND NOTIFICATION
INVITATION FOR EXPRESSION OF INTEREST FOR
DEVELOPMENT OF CHECKOUT EQUIPMENT

BrahMos Aerospace Private Limited (BAPL), a joint venture between India's Defence Research and Development Organization (DRDO) and Russia's NPO Mashinostroyeniya, is a leading aerospace and defense organization specializing in the Design, Development, and Production of Supersonic Cruise Missile Systems.

BAPL invites Expressions of Interest (EOI) from prospective Indian industries for development of mission critical 'Automatic Checkout Equipment'.

Name of Equipment: Checkout Equipment (COE)

Scope of work:

To develop the hardware & software of 'Checkout Equipment' as per the Technical Specifications document and other Design documents. The Technical Specifications Document will be shared to shortlisted Industry partner(s) on submission of Non-Disclosure Agreement (NDA).

Description:

Checkout Equipment is an Automatic Test Equipment used for testing and validating the health of the multiple variants of BrahMos missile at various work centers and Technical Position of Armed forces. Checkout Equipment has multiple processor modules and Input / Output modules to validate the health of the missile and self check of COE system.

Mechanical Requirements:

- Design / fabrication of chassis, shelves and rack for sub-systems of the Checkout Equipment suitable to withstand movement by road, sea, rail or air transportation.
- Checkout Equipment should function normally after the action of loads during transportation from place of manufacturing to place of operation.

Electrical/Electronic Process Requirements:

- Requirements of Printed Board Design – IPC 2221 or equivalent.
- Requirements of Soldered Electrical and Electronic Assemblies – J STD 001 Class 3, MIL STD 2000 Class 3 or equivalent.
- Requirements and Acceptance for Cable and Wire harness assemblies – IPC 620 Class 3 or equivalent.
- Performance Specifications of Printed Boards – IPC 6012 Class 3 or equivalent.
- Acceptability of Printed Boards – IPC 600 Class 3 or equivalent.
- Acceptability of Electronic Assemblies – IPC 610 Class 3 or equivalent.
- Rework, Modification and Repair of Electronic Assemblies – IPC 7711/7721 or equivalent.
- Requirements of Electro Magnetic Compatibility and requirements of stability to external influences like Electro Magnetic Interference & transportation vibration will be shared with the shortlisted industry partner(s).

Software Requirements:

- The system design should be based on an Real Time Operating System.
- Development of Application Software that includes independent test programs to validate the health / system level functionality of the individual sub-systems of the missile system and loading / reading software of the critical sub-systems of the missile system.
- Development of Inbuilt Software Simulator Application and Hardware Simulators to validate each of the independent test program.
- Software development should follow the framework of IEEE 12207 standard.
- Design documents should be prepared in each stage of software life cycle development as per IEEE 12207 standard and should be submitted to BAPL for approval.
- Independent Verification & Validation for the developed Application Software and the design documents will be carried out through third-party agency.
- Source code of Application software & simulators needs to be shared with BAPL and will form a part of the delivery. Wherever applicable if third party library / DLL is utilized, needs to be informed with licensing obligations.
- Future maintenance updates and version control of the Application software will be done by BAPL. Hence the tool suites / development environment used for application software / simulators will form part of the delivery.

Testing Requirements:

- Acceptance test procedure will be as per Technical specifications document. This involves comprehensive testing to validate the functionality and Reliability of the system.
- Detailed environmental tests and factory level acceptance tests will be formulated as 'Quality Acceptance Plan document' during the project execution.

The eligibility criteria and instructions for submission of EOI are available at our website **www.brahmos.com**. Only eligible vendors meeting the requirements specified in EOI document "BAPL/SCM-L/EOI/EEE/01" shall express their interest.

Eligible Industry partner(s) may furnish their Expression of Interest in the prescribed format (Annexure A of EOI document BAPL/SCM-L/EOI/EEE/01) in Sealed Envelope quoting our Reference No. BAPL/COE/DN/001 with all essential information and supporting documents, on or before 28/11/2025 [17:00 Hrs] to the following address:

BrahMos Aerospace Private Limited

BrahMos Complex, Near DRDL Rear Gate,
Kanchanbagh (PO), Hyderabad – 500 058
Tel: 91-40-24087103

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