

DEMAND NOTIFICATION

**INVITATION FOR EXPRESSION OF INTEREST FOR
PNEUMATIC ACTUATION SYSTEM (PAS) AND EMERGENCY
ACTUATION SYSTEM (EAS)**

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 procurement of Pneumatic Actuation System and Emergency Actuation System.

Name of Assembly: Pneumatic actuation system (PAS) and Emergency actuation system (EAS).

Scope of work:

To develop, manufacture and qualify the PAS and EAS as per technical requirement which will be shared to shortlisted manufacturers.

Description: PAS is used for release of weapon system from aircraft on command. PAS consists of solenoid valves (normally closed and normally open), nitrogen bottle, pressure switch, pressure gauges, safety relief valve, inline filter, discharge valve, actuator assembly, metallic pipeline, check valve. System including the valves shall be qualified for -54°C to +85°C for leak proof ness (bubble tight) and shall operate between -40°C to +71°C. PAS shall operate between 75 bar to 150 bar. RCMA (CEMILAC) & MSQAA will be involved during development stage to ensure airworthiness of item.

Raw material for manufacturing all components should confirm to AMS grade. Checks tests of the material to be carried out by vendor. Each component and system shall be subjected to qualification testing as per the following test-

Component level tests

- Random Vibration tests
- Low & high temperature tests
- Cyclic tests
- Acceleration test
- Burst pressure tests
- Min voltage
- Leak tests
- Proof pressure tests
- Functional test

System level tests

- Random Vibration tests (with pressure)
- Low & high temperature tests
- Cyclic tests
- Acceleration test
- Burst pressure tests
- Min voltage
- Leak tests
- Proof pressure tests



- Functional test
- Bump test
- EMI/EMC test
- Thermal shock test
- Sand and dust
- Tropical exposure test
- Shock test

Mechanical processes involved:

- Machining
- Welding
- Pipe bending
- Heat Treatment
- Surface Treatment

Testing Requirement:

- High pressure Hydraulic & pneumatic test setup
- Environment tests such as vibration, bump, shock, humidity, linear acceleration etc.

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/AV-M/EOI/01" shall only apply.

Eligible manufacturing industries may furnish their Expression of Interest in the prescribed format (Annexure A of EOI document BAPL/AV-M/EOI/01) in sealed envelope quoting our Reference No. BAPL/AV-M/EOI/01 with all essential information and supporting documents shall reach on or before 3 weeks from the date of notification to the following address:

BrahMos Aerospace Private Limited

BrahMos Complex, Adj. DRDL Rear Gate
Kanchanbagh, Hyderabad – 500 058
Tel: 91-40-24087046/7064

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.

