

SCOPE OF WORK AND TECHNICAL SPECIFICATIONS FOR SUPPLY OF PILLAR DRILLING MACHINE

1. Scope of Work

The scope of work for the supplier shall include the following:

1.1 Supply

- Supply of **one (1) Pillar Drill Machine** conforming to the technical specifications mentioned in Section 2.
- Supply of all **standard accessories**, tooling, and electrical components required for normal operation of the machine.
- Supply of **machine documentation**, including manuals, drawings, and warranty information.

1.2 Delivery

- Packing suitable for safe transportation to prevent damage during transit.
- Delivery of the machine to **BrahMos Aerospace, Nagpur**
- Responsibility for unloading at site (unless otherwise specified by purchaser).

1.3 Installation & Commissioning

- Initial trial run and demonstration of machine operation.
- Verification of machine performance against technical specifications.

1.4 Acceptance

- Machine shall be considered accepted after successful installation, commissioning, and satisfactory trial run.

2. Technical Specifications – Pillar Drilling Machine

2.1 General

- **Type:** Pillar Drill Machine – Industrial Light Duty
- **Construction:** Rigid cast iron bed and structure suitable for continuous workshop use

2.2 Capacity

- **Drilling Diameter:** 25mm
- **Spindle Travel (mm):** 100-150
- **Column Diameter(mm):** 60-80



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- **Work Table Size(mm):** $\geq 250mm$
- **Throat Diameter** $\geq 200mm$

(Vendor to clearly mention actual values in the tender submission.)

2.3 Spindle & Drive

- **Motor: 1HP-1.5HP (3 Phase)**
- **Power Supply: 415 V, 3 Phase, 50 Hz**
- **Spindle Taper: MT2 or MT3**
- **Speed Range: Multi Speed stepped pulley or gearbox arrangement**

2.5 Standard Accessories (To Be Included in Supply)

The following accessories shall be supplied along with the machine:

- Drill Tap Chuck
- Arbor/Taper Sleeve
- Motor Starter and Electrical Protection

2.6 Safety & Ergonomics

- Proper guarding for rotating parts
- Emergency stop provision
- Electrical safety as per standard industrial practice

2.7 Documentation

- Operation & maintenance manual
- Spare parts list
- Warranty certificate

3. Inspection & Acceptance Criteria

- Visual inspection for workmanship and finish
- Verification of machine specifications against OEM datasheet
- Trial machining operation to demonstrate satisfactory performance
- Smooth operation without abnormal noise or vibration



4. Warranty & Support

- Machine shall be covered by **OEM standard warranty**.
- Vendor shall provide technical support for installation and commissioning.
- Availability of spares and service support within India.

5. Delivery Schedule

The vendor is expected to supply the items within T_0+45 Days, where T_0 is the date of issue of purchase order



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