



**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY**  
**MATERIALS MANAGEMENT DIVISION**  
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**Detailed Technical Specifications for Drill Press**

Manually operable floor-mounted heavy-duty standing drill press for coring blocks of rocks and concrete. The equipment should have a heavy-duty drill bit with coolant flow and movable drill bit rack.

**Drill bit**

1. High speed stable drill motor having less vibration for drilling into fragile rocks (coal/shale) as well as hard rocks (granite/basalt) and concretes.
2. Adjustable drill-bit rack with hand crank movement.
3. No creeping in the drill bit rack
4. Diamond mounted drill bits for 1 inch, 1.5-inch, 50 mm and 54 mm diameter coring
5. Maximum coring height is 20 cm.

**Sample tray**

- A. Adjustable sample tray with tilting features (upto 45 degrees)
- B. Sample size accommodation upto 3x2x2 cubic feet,
- c. Clamping facility to keep the block sample stable.

**Other specifications and requirements**

1. Constant coolant flow to prevent overheating of drill bits
2. Facility for coolant recycling
3. Reservoir for coolant storage
4. Plumbing for coolant flow
5. Spare drill bits for 2 years of use
6. Warranty for three years period
7. Splash guard and easy cleaning mechanism of the sample tray.