

**बीरबल साहनी पुराविज्ञान संस्थान, लखनऊ**  
**BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES, LUCKNOW**

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No.BSIP/Sponsored Project/2017-18/C-6/2 SPEED POST  
BSIP Web-site

दिनांक/ Dated: 03.8.2017

**Subject: Amber cutting machine**  
**(specification overleaf)**


Dear Sirs,

This Institute intends to purchase item mentioned above. Sealed quotations are invited so as to reach this office on or before **5.00 pm on 23.8.2017** duly superscribed by "Amber cutting machine".

While submitting quotation please note that:

1. The material may either of indigenous manufacturer or of foreign make, available from ready stock. Any offer to supply on forward Delivery Basis under suppliers own quota license will also be considered.
2. The price quoted should be F.O.R. Destination.
3. Your rates should include packing, insurance and forwarding charges.
4. The rates of Sales Tax should be clearly indicated wherever chargeable. The tendered should also indicate Central/Sales Tax Registration Number and date in the quotation.
5. Specific mention should be made whether the offer is for supplies available ex-stock. In case the officer is on Forward Delivery basis, firm delivery period must be indicated.  
The cover should be sealed and superscribed "Amber cutting machine " must be written on envelope. The quotations not complying the procedure will be rejected.
6. Payments will be made by crossed cheque on the Indian Overseas Bank, Lucknow only after receipt and acceptance of supply and installation/if required satisfactory.
7. The acceptance of the quotation will rest with the Director who does not bind himself to accept the lowest quotation and reserves the right to himself to reject or partially accept any or all the quotation received without assigning any reason.
8. The quotations are liable to be cancelled if any of the above mentioned conditions are not complied with.

Yours faithfully,

  
(संजय कुमार/Sanjay Kumar )  
रजिस्ट्रार/ Registrar

### **Specifications for the Amber Cutting Machine**

**11-2780 IsoMet 5000 Linear Precision Saw**, includes one 11-2750 2im automatic sample positioning system, automatic linear feed advance/retract, one 11-4276 Isomet Wafering Blade 6" diameter, Flanges, Chucks, Dressing System & Cutting Oil, operating instructions and warranty. For worldwide operation on 85-264V/50-60Hz/1 phase.

**Details:** : The "Microprocessor – Controlled Low Deformation Precision Cut-off Machine shall comprise the following:

- Machine Housing
- Cutting Chamber with Wheel Mounting Spindle, work-area illumination and Protective See-through Hood
- Moveable T-slotted Table with feed rate control and motorized sample positioning.
- In-built Recirculating Cooling Unit
- Operation Console with switches/ knobs, parameter display system and emergency STOP

**Mounting Table mounted**

**Construction** The machine housing shall be of rigid construction and vibration free. It shall be made of corrosion-resistant material and painted to an aesthetic finish. All operational switches and displays shall be conveniently located on the front face of the equipment.

**Cutting Mechanism** By vertically mounted, rotating abrasive cut-off wheel under copious flow of coolant.

**Cut-off Wheel Diameter** The machine shall be suitable for using cut-off wheel diameters ranging between 3" (75 mm) to 8" (203 mm).

**Cut-off Wheel Speed:** Variable between 300-5000 rpm, or better

**Cut-off Wheel feed rate:** Desirable range 0.02 to 0.3 mm per second. However, higher range is also acceptable.

**Cut-off Wheel Types:** Suitable for both 'wafering' (diamond). Appropriate 'Flange Set' to be provided.

**Cutting Capacity:** Upto 50 mm diameter, or better

**Cutting Chamber:**

**Safety Hood:** Transparent protective hood with safety-interlock for viewing the cutting operation and for prevention of unwarranted accident.

**Cutting Table:** 'Movable' T-slotted cutting table made of corrosion resistant material.

- Size (Area): 40,000 mm<sup>2</sup> (minimum)

- Feed Speed Control: Automatic monitoring and adjustment of feed rate to prevent specimen and machine damage.

**Cutting Methods:** Programmable

**Clamping Vices/ Tools/ Specimen Holders:** Universal type, suitable for round and flat specimens.

**Workpiece Positioning:** Motorised

**Re-circulating Cooling System:** In-built re-circulating cooling system comprising suitable capacity coolant tank and pump shall be provided.

**Electronics:** Microprocessor Controlled.

**Operating Console:** Shall consist of operating buttons (touch pad/ touch screen), display system of operational parameters and emergency STOP, with **six inches diamond blade for cutting rocks as well as amber.**