

NOTICE INVITING RE-TENDERS

Online electronic bids are invited for and on behalf of Department of Geology, University of Delhi, Delhi – 110 007, for **supply and installation of 'TABLE TOP SPECIMEN CUTTER (ROCK CUTTER) MACHINE'**. The essential specifications are mentioned below:

(a) Grinder Polisher with Thin Section Holder - Single disc Semi-Automatic polishing system for polishing of metallographic samples with touch control panel and LED display, Splash guard, Removable bowl, platen cooling; Single disc polishing wheel of 250mm dia or better; variable speed base 50 to 500 rpm in steps of 10 rpm; WHEEL DIRECTION clockwise or counter clockwise; Disposable bowl; Motor power 1hp (750W) (or better); Soft Touch membrane control panel; With controls like Time, speed, water source, platen direction, force application, Head direction, primet control, Step cycle "on"/ Cycle "Off"; Specimen mover power head; Variable head Rpm with single force & central force application, Adjustable rotational direction; Variable speed 60 Rpm (or better) in steps of 10 rpm; Central Force (30-260N or better); Single Force (10-45N or better); LED Lighted polishing area; central force specimen holder 1inch, 1.5 inch; single force specimen holder 1 inch, 1.5 inch; Thin Section Holder for Grinding and Polishing of Thin Section slides 27 mm x 46 mm size; Motor Power 0.156 hp

(b) Linear Precision Saw – 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 continuous 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 or more; Cut-off Wheel Types: Suitable for both 'wafering' (diamond). Appropriate 'Flange Set' to be provided; Cutting Capacity: Up to 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 mm²

(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. In addition to this start-up consumables should be provided.

(c) Thin-Section Bonding Fixture - Capacity of up to 12 thin-section slides; Accommodates slides up to 2" x 3"; Hot or cold mounting; Corrosion resistant construction; Spring activated loading with self centering load spreaders.

(d) Rock Cutter – Table top specimen cutter; Bright and energy efficient LED lights to view specimen during sectioning; Bright LED lights for easy viewing in cutting chamber and long gooseneck light for easy positioning of light to illuminate work space; large viewing window; easy to use with minimum operator training; open work space for easy and quick placement/positioning of specimen for sectioning; spray hose for easy and efficient cleaning and wash-down of cutting chamber; easily removable basket for catching small specimen after sectioning; hood safety interlock to prevent cutting while hood is open and locks hood while sectioning; convenient drawer for placing tools required for set-up and operations; manual chop handle to provide tactile feedback and easy cut; isolated electronics assembly to separate moisture from wet environment; easy positioning of rocks samples with the help of a suitable vise; 3 HP (or better), 3 phase motor; wheel speed - ~2800 rpm; >25 litres re-circulation tank; cut-off wheel dis 10 inch (or 1.25 inch); maximum cutting capacity of 90 mm (or better); >9.5 mm T slot.

(e) Thin Sectioning System - Table top thin sectioning machine with facility of grinding; Corrosion resistant cabinet; Continuous rim diamond cut-off blade of dia of 200 mm; Cup grinder for grinding of specimen with 150 mm dia (or better); Provision for making specimen of 27mm x 46 mm glass slide; high-precision micrometer for adjusting grinding thickness; Strong vacuum system for holding glass slide with specimen for sectioning and grinding; Gauge to display available vacuum during sectioning and grinding of specimen; Quick release valve for releasing specimen slide from vacuum chuck after finishing of work; Water cooling of specimen during sectioning and grinding; Universal vacuum chuck which can accommodate glass slides of different sizes; Belt-driven single phase/direct 3-phase motor 220v 50 Hz power supply; Cutting wheel speed of >1350 rpm. **THE ENTIRE UNIT MUST HAVE ADEQUATE SAFETY FEATURES.**

(g) Ultrasonic Cleaner - Ultrasonic Cleaner with single piece cabinet, solid-state 185 watt power source, 40 kHz (or better) transducer 11-1/2 x 9-1/2" x 6" with stainless steel transducer tank, mechanical timer control for cleaning; High mount control board with spill-resistant controls; For operation on 220V/50Hz/1 phase; Tank Cover, stainless steel; Insert Tray, solid stainless steel, Insert Tray, perforated stainless steel, Suspension Bracket for specimen holder.

(h) Vacuum Impregnation Equipment - High strength plastic vacuum chamber, built-in synchronous motor and rotating turn table, pouring mechanism, vacuum gauge, hoses, 100 no.s of paper cups, 12 SAMPL-KUPS, Drierite dehydrating agent and vacuum pump. For 220V/50Hz/1 phase.

The details of supply are available in the tender document which can be downloaded from Central Public Procurement (CPP Portal <http://eprocure.gov.in/eprocure/app>) and the bid is to be submitted online only on <http://eprocure.gov.in/eprocure/app> up to last date and time of submission of tender. Sale of physical tender document is not applicable.

1.0 Brief Details of Tender:

Sr. No.	Items	Description
(i)	Estimated Cost	--
(ii)	EMD (Bid Security)	Rs. 1,10,000/- in the form of Demand Draft/Banker's cheque in favor of " Registrar, University of Delhi ", payable at Delhi or in the form of Bank Guarantee (BG) issued by an Indian nationalized bank or any scheduled bank of India. Bank guarantee shall be valid up to Eighteen months beyond the bid validity period as per prescribed format.
(iii)	Completion Period	3 (Three) Months
(iv)	Tender document fee	Rs. 1000 /- in the form of demand draft or banker's cheque in favor of 'Registrar, University of Delhi', payable at Delhi.
(v)	Tender Inviting Authority	Head, Department of Geology, University of Delhi

NOTE: The tender fee and EMD (in original) should be submitted to the Tender Inviting Authority on or before the last date of bid submission, failing which the tender will be summarily rejected.

2.0 Bid Submission

Bids shall be submitted online only at CPPP website (<https://eprocure.gov.in>) Bid documents may be scanned with 100 dpi (with black and white option), which helps in reducing the size of scanned documents.

3.0 Tenderer who has downloaded the tender from the Central Public Procurement Portal (CPPP) website (<https://eprocure.gov.in>) shall not tamper/modify the tender form including the downloaded price bid template in any manner. In case if the same is found to be tempered/modified in any manner, the tender will be completely rejected and EMD would be forfeited.

4.0 Intending tenderers are advised to visit again CPPP website (<https://eprocure.gov.in>) regularly till closing date of submission of tender for any corrigendum/addendum/amendment.

5.0 Bids will be opened as per date/time as mentioned in the Tender Critical Date Sheet. After online opening of Technical-Bid the results of their qualification as well price-bid opening will be intimated latter.

6.0 The tender shall be submitted online in two parts, viz., technical bid and price bid.

All the pages of bid being submitted must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading.

The offers submitted by Telegram/fax/email shall not be considered. No correspondence will be entertained in this manner.

7.0 Technical Bid

The following documents are to be furnished by the bidder along with **Technical Bid** as per the tender document:

- (i) Signed and scanned copy of proof for payment of Tender Document Cost (T. Fee) / Earnest Money Deposit.
- (ii) Signed and scanned copy certificates like Registration Certificate, PAN No., TIN No., Service Tax Registration, Sales Tax, Trade Tax Registration etc.
- (iii) Signed and scanned copy of Tender Acceptance Letter & Letter of Authorization to submit bid.
- (iv) An undertaking (self-certificate) that a Central/State/UT Government institution has not blacklisted the agency and there has been no litigation with any government department on account of IT services.
- (v) Signed and scanned copy of Technical Data Sheet.

8.0 Price Bid

- (a) Price bid undertaking
- (b) Schedule of price bid in the form of **BOQ_XXXXXXXXX.xls**


निर्माणाध्यक्ष / Head
भू-विज्ञान विभाग / Department of Geology
दिल्ली विश्वविद्यालय - University of Delhi
दिल्ली-110007 / Delhi-110007