



INDIAN INSTITUTE OF TECHNOLOGY KANPUR
Department of Chemical Engineering

Contact:

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Enquiry No: IITK/CHE/FIST/PGRL-3-REVISED

Enquiry Date:31/07/2018

Closing Date:15/09/2018

Tender Notice

Sealed quotation(s) in Indian Rupees with all technical details so as to reach latest by 3:00 PM on Sep 15, 2018 are invited for the supply of following item

Tender Specifications for Ultramicrotome

(I) Cryo-upgradable (in future) Ultramicrotome instrument with following specifications is needed to prepare sample for FESEM imaging:

- 1) Cutting transmission with vibration decoupled gravity stroke and built in anti vibration system. If case built-in antivibration mechanism is not there, the system should be supplied with suitable table with shock absorbing elements and appropriate chair.
- 2) Instrument should be capable to slice the samples as low as 30 nm thickness and it has to be demonstrated by the vendor through submitted proof.
- 3) Preference will be given to the instrument which will work with fully automatic mode as well.
- 4) Instrument has to be supplied with glass knife.
- 5) Cutting window setting 0.2 to 10 mm or better & Return speeds 10, 30 and 50 mm/sec selectable
- 6) Specimen advance indicator 10 segments 20 μ m each
- 7) Stereomicroscope (6.3x to 40x) or better with preferably 4 x LED illuminations system for top light, spot light, back light and specimen trans-illumination to enhance observation and clarity.
- 8) Illumination should be independently controllable

- 9) Built in Intensity control for Ioniser
- 10) Fully motorized knife stage for N-S and E-W movement.
- 11) Step movement (from 0.1 to 15µm steps)
- 12) Touch screen display of the Ultra microtome.
- 13) At least four or more memories for speed and feed settings
- 14) Cutting speed setting from 0.1 to 100 mm/s
- 15) Section thickness setting 5nm – 15 µm
- 16) Knife block 360° rotatable with illumination
- 17) User friendly upgradable software
- 18) Built-in USB port for data transfer.

(II) Specifications for Glass Knife maker for Ultramicrotome:

- 1) Should be 100% balanced break method with high reproducibility
- 2) Variable scoring lengths
- 3) Accurate glass strip positioning
- 4) Drawer system for safe knife removal
- 5) Auto reset of breaking and scoring mechanism
- 6) Push action score for even scoring and adjustable scoring pressure

(III) Accessory kit

- Knife box for 6.4 and 8 mm glass knives 2 pcs
- Grid box for 100 grids 10 pcs
- Dental wax.
- EM loop holder
- Glass strips 6.4 mm, 10 pcs.
- Glass strips 8.0 mm, 10 pcs.
- Trufs for 6.4 mm glass, 500 pcs.
- Trufs for 8.0 mm glass, 500 pcs.
- Embedding mould for 5.6 mm dia. (10 trays).
- Embedding mould for 8.0 mm dia. (10 trays).
- Forceps, straight tips. 2 pcs
- Copper grids 100 mesh, 100 pcs.
- Copper grids 200 mesh, 100 pcs.
- Copper grids 300 mesh, 100 pcs.
- Copper grids 400 mesh, 100 pcs.
- Hot Plate (3 different temperatures)
- Protective Goggles

(IV) Additional Requirements:

- 1) A suitable online UPS with 30 minutes battery backup should be provided.
- 2) Demonstration and training at the installation site should be provided.
- 3) Free of charge training of students in equipment maintenance by the certified company engineers during the warranty period at IIT Kanpur.
- 4) The service personnel should respond within 24 hrs. and be on campus in 72 hrs. for repairs.
- 5) Comprehensive Warranty (Labour & Spares): 5 Years. Recalibration of the instrument, if required, should be included in the warranty package.
- 6) Price of Annual Maintenance Contract(AMC) post the warranty period must be quoted separately.
- 7) The vendor must have several installations in India, preferably in national institutes and reputed CSIR/other government research laboratories.

Terms & Conditions:

- 1) Quotations must reach undersigned by 15.09.2018 by 3.00 pm
- 2) Quotations should have a validity of minimum of 90 days.
- 3) Atleast 10 users list should be provided with satisfactory certificates.
- 4) Technical specification sheets, authorization certificate or proprietary certificate (if applicable) and any other relevant documentation should be included with the quotation.
- 5) Quotations are required in duplicate: (1) TECHNICAL BID (2) FINANCIAL BID, in separate Sealed envelopes, both to be finally put in one single envelope with Tender Enquiry Number Mentioned clearly in all sealed envelopes.
- 6) The technical bid should include a signed copy of the compliance certificate against the tender specifications. The compliance sheet should clearly include reference (e.g. Page No) to the vendor's online brochure for every technical specification.
- 7) The tender specifications should be justified with company catalogue.
- 8) Please specify the maximum permissible educational discount, if any.
- 9) Delivery of system should be within 3-4 weeks on receipt of the final purchase order.

- 10) The downtime of service should be taken care within 48-72 hours on information, otherwise it is subjected to penalty.
- 11) The rate offered should show both FOB (your international airport) ,CIF (New Delhi) and IIT Kanpur including packing and forwarding, Insurance and freight.
- 12) Please clearly mention the tax rate (like GST etc.) and transportation charges up to IIT Kanpur, India.
- 13) After sales Service in India and warranty period should be clearly mentioned.
- 14) The Institute reserves the right of accepting and rejecting any quotation without assigning any reason.
- 15) Quotations by E-mail will not be accepted.

Kindly mention the enquiry number on the sealed envelope carrying the quotation and send the sealed quotation(s) to the following address:

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