GENERAL INSTRUCTIONS

1. Quote separately for the basic unit and all add-ons or accessories as well as minimum spare parts. Taxes, duties etc. should be mentioned separately.

2. Provide a list of clients and after sales service reports from a few reputed clients.

3. The validity of the tenders should be for minimum of 90 days from the date of submission.

4. In case vendor wants to submit tender document for multiple items, please make separate tender sets each accompanied with the required tender document fees & Bank Guarantee.

5. The various taxes and duty concessions for the ICT are as follows:
   - Octroi: Nil
   - Excise: Nil
   - Add. Custom Duty: as applicable (9.36%)

      (against Custom Duty Exemption certificate of DSIR issued to ICT) Form of Certificate Concession for Central Sales Tax (CST) only out of Maharashtra.

6. Indicate custom clearance charges and transport charges separately. We will provide the necessary documents and custom duty as given in 5 above. We may require your services to clear the goods from customs.

7. A demand draft drawn in favor of “Institute of Chemical Technology, Mumbai.” Tender document fees as per the table given below must be attached with the tender. Please mention Sr.No. and name of the equipment with name of the Company and full address of the Company behind the demand draft.

8. Separate Bank Guarantee drawn in favor of “Institute of Chemical Technology, Mumbai.” along with your quotation. The following are the charges.

<table>
<thead>
<tr>
<th>No.</th>
<th>Cost of Item (Rs)</th>
<th>Tender document fee (in Rs.)</th>
<th>Bank Guarantee (% of the Estimated Cost of item)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(Non-refundable)</td>
<td>(Refundable)</td>
</tr>
<tr>
<td>1</td>
<td>3,00,000 or more but less 10,00,000</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>2</td>
<td>10,00,000 or more but less than 50,00,000</td>
<td>2000/-</td>
<td>2.5</td>
</tr>
<tr>
<td>3</td>
<td>50,00,000 or more</td>
<td>2000/-</td>
<td>4</td>
</tr>
</tbody>
</table>

9. Tenders must seal before submission in the Administration department. The envelope must indicate on the top item serial number and tender due date. This will enable us easy identification and sorting.

10. Tenders without separate Bank Guarantee and tender document fees will be rejected.

11. For any clarification, contact Superintendent, Stores (ICT) Tel.No. 022-33611301/ (Ext. 1301).

12. Vendor to do installation and commissioning of the instrument and training free of cost. We may
required installation report.

13. It is also desired that the company to quote for the warrantee and post warrantee terms neatly and very clearly in the form of service contract.

14. Vendor must be prepared to undertake the site preparation job in case required.

15. The quotations/tenders should be submitted by the actual manufacturers or their authorized agents with necessary documentation.

16. The Vice-Chancellor, ICT reserves the right to order in part full quantity or withdraw the requirement in part or in full without assigning any reason.

17. The tender shall be accompanied by registration document, income tax clearance certificate and details of similar works executed.

18. We reserve the right to reject any offer without assigning any reason.

19. No enquiries will be entertained after submission of the quotation.

20. Quotation received after the due date will not be considered.

21. The Vice-Chancellor, ICT takes no responsibility for delays/loss in post or non receipt of tender Documents/tenders.

22. Sealed tenders must be submitted on or before 12th August, 2014 up to 5.00 p.m. in the Information Department.

Advertisement in Times of India on 29th July, 2014.

Registrar, ICT, Matunga, Mumbai-400 019.
**Item No. 1**

**Static Charge analyzer**

- Instrument capable of measuring electrostatic charges on textile substrate.
- Measurement range from 1 to at least 1000 V.
- Automatic detection and switching to specified range.
- Direct measurement of electrostatic charges on surface of textile substrates i.e. Half time decay.
- Safety system for overload protection.
- Additional accessories for measuring electrostatic charges on textile substrates needs to be quoted separately.
- Compatible PC with printer can be quoted if required.
Item No. 2

Digital Printing Machine

- Printer should be based on Piezo technology and from reputed manufacturer.
- Printing head should have provision for using 8 or more colour
- Resolution Max. 2880 x 1440 to Min 360 x 360
- Printer should be capable to use Reactive / Acid / Pigment / Disperse Inks. Additional print head for specific inks should be coated.
- Printer should be able to print on Cotton, Silk, Nylon, Polyester, etc
- Heat Press for fixing.
- Software for printing on textile substrate.
- Compatible PC for digital printer with required capabilities.
**Item No. 3**

**XRD Machine**

- X Ray Tube with Cu Anode having rating 2.0 kW with provision to accommodate other target X-ray tube in future. Tube voltage range 20 to 60 kV and Tube current range 2 to 80 mA
- X-ray generator of 3 kW or more rating and stable upto ±0.01% for ±10% variation in input voltage.
- Goniometer- θ - 2θ type having radius more than 180 mm. Minimum step angle 0.002° for θs and θd with angular reproducibility 0.001°. 2θ measuring range 1 to 150°. Scanning speed 0.1° to 50°/min. Slit divergence slit 0.5°, 1°, 2° and 0.05 mm, scattering slit 0.5°, 1°, 2° and receiving slit 0.15mm, 0.3mm. Ni Filter for Cu tube
- Detector Scintillation counter having wide range with NaI Scintillator.
- X-rays to be on during analysis only.
- Safety mechanism against overload over voltage, over-current and poor flow rate of the cooling water. Emergency stop Power down of x-ray power, and goniometer stop.
- Sample Holders for powder analysis, film, textile fibres.
- Fibre sample analysis attachment to be quoted optionally.

**Software should be capable of:**

- Measuring data of X-ray diffractometer, basic data processing and smoothing, Subtraction of back ground, ASCII data conversion, calculation of FWHM and integrated intensity, quantitative analysis generation of working curve.
- Additionally, percentage crystallinity determination software and crystal size & lattice strain determination software related to fibre analysis can be quoted optionally.
- ICDD PDF-2 data base software to be quoted optionally.

- Voltage stabilizer, water chiller, PC & printer for XRD machine.
- XRD system should be upgradeable on-site in future for thin film analysis attachment, sample heating/ Cooling attachment, 1 D Fast Detector etc.