

**Uttar Pradesh Textile Technology Institute  
Kanpur (U.P.) 208001**

**Tender No: 06/UPTTI/2015-16**

Director, UPTTI, Kanpur invites sealed Tenders from eligible bidders for supply and commissioning of Lab Equipments for different departments/ Labs of **Uttar Pradesh Textile Technology Institute, Kanpur**. Separate tenders must be submitted at UPTTI Kanpur for each schedule of following Departments/ Labs:

Schedule No.	Department/ Lab & List of Equipment	Delivery Period	Last date & time of submission	Date & Time of opening Technical bids	Date & Time of opening Financial bids	Estimate Cost in Rs	EMD (INR)
1	<b>Textile Technology/ Engineering;</b> Miniature Computer Controlled Fancy Doubler, Miniature Roving Frame	3 Month	11.01.16, 11. A.M.	11.01.16, 12 Noon	18.01.16 11 A.M.	15 Lac	15000
2	<b>Weaving Lab:</b> Single End Sizing Unit, Single End warping machine, Sample Rapier Loom	3 Month	11.01.16, 11. A.M.	11.01.16, 12 Noon	18.01.16 11.30 A.M.	65 Lac	65000
3A	<b>Testing Lab:</b> Yarn evenness tester	3 Month	11.01.16, 11 A.M.	11.01.16, 12 Noon	18.01.16 12.00 Noon	50 Lac	50000
3B	<b>Testing Lab:</b> Stelometer, Trash Analyzer, Digital fabric thickness tester, Digital microscope, GSM Cutter, Martindale abrasion tester,	3 Month	11.01.16, 11. A.M.	11.01.16, 12 Noon	18.01.16 12.30 P.M	9 Lac	9000
4	<b>Textile Chemistry Deptt:</b> Computer colour matching machine, Water bath, Digital weighting balance	3 Month	11.01.16, 11 A.M.	11.01.16, 12.30 P.M.	18.01.15 2 P.M.	9.9 Lac	10000
5	<b>MMFT Deptt:</b> High Resolution Multi head (5 station) Digital Microscope, High resolution Digital Microscope along with measurement software, Precision Fibre Microtome, Microscopy cross-section kit	3 Month	11.01.16 11 A.M.	11.01.16, 1 Noon	18.01.16 3P.M.	19 Lac	19000
6	<b>Chemistry Lab:</b> Double beam UV visible spectrophotometer, Digital pH meter	3 Month	11.01.16 11 A.M.	11.01.16, 12 Noon	18.01.15 3.30P.M.	8.5 Lac	8500
7	<b>Workshop:</b> Centre Lathe m/c, Hydraulic power hacksaw, Surface Grinding m/c, Bench Drilling m/c, Rockwell hardness tester, Bending beam apparatus, Cantilever beam apparatus, Roof Truss Model, Vertical Torsion Apparatus, Moment of Inertia flywheel apparatus, Combined inclined plane and friction slide apparatus, Law of polygon apparatus, Simple and compound gear train apparatus, Worm and worm wheel apparatus, Auto CAD software graphics,	3 Month	12.01.16, 11. A.M.	12.01.16, 12 Noon	19.01.15 11 A.M.	20 Lac	20000
8A	<b>Electrical Deptt:</b> DC motor separately excited type , DC motor controller for 5 KW motor, Variable frequency AC drive single phase 240V.	3 Month	12.01.16, 11. A.M.	12.01.16, 12 Noon	19.01.15 12 Noon.	7.5 Lac	7500
8 B	<b>Utilities:</b> Window Air conditioners & Split AC, online UPS 5.0/0 KVA with power back-up, Overhead projectors	3 Month	12.01.16, 11 A.M.	12.01.16, 12.30 P.M	19.01.15 12.30 Noon.	9 Lac	9000

The Tender Documents, Tender Cost, EMD, Specifications and other details can be downloaded from the Institute website [www.uptti.ac.in](http://www.uptti.ac.in) and may be submitted as per details given above. Cost of tender document and EMD as mentioned in the tender document should be in the form of separate bank draft in favour of Director, Uttar Pradesh Textile Technology Institute, Kanpur payable at Kanpur (U.P.). Director reserves all rights to reject any or all tenders without assigning any reason thereof. In case of holiday on above dates the bids shall be opened on next working day.

**Director**

**Uttar Pradesh Textile Technology Institute  
Kanpur (U.P.) 208001**

**TENDER DOCUMENT**

No: 6/UPTTI/2015-16

Sealed and separate tenders in duplicate in two parts i.e. tender bid-I and tender bid-II are herewith invited for **Supply & Commissioning of Laboratory Equipments at UPTTI Kanpur** along with earnest money amounting to Rs.... (Mentioned above in front of schedule) in the form of Demand Draft of Nationalized/Scheduled Bank in favour of Director UPTTI Kanpur (UP). Both envelopes should be kept in one big envelope. The tenders should reach to undersigned latest by the date & time mentioned above. Tender cost is **Rs 500/-** (Five Hundred only) for each schedule which is non-refundable.

**Tenders are being invited to purchase and commissioning of equipments to establish various laboratories. The firm will also complete the work of installation/ mounting and commissioning of these equipments. This includes concrete foundation work (in case of heavy machines), electrical safety, and electricity wiring in the laboratory to make these equipments functional.**

**Terms & Conditions:**

1. Details of equipments/ materials are as per bill of quantity attached.
2. Tenders should be submitted either in person or by post in sealed envelopes on which schedule No, item quoted, the name of tender, tender number and date along with name and address of the firm will be written.
3. **TENDER BID-I (Technical)** shall contain (i) Tender cost (non refundable) (ii) Earnest Money (iii) Proof of PAN and TIN registration document (iv) Standing of the firm (v) Major supplies executed in last three years of similar types of equipments/ machines (vi) Authorized dealer certificate from OEM & Commercial terms and conditions.

**TENDER BID-II (Financial)** shall contain rate schedule only. The rates must be quoted in both figures and words. Any overwriting and/or cutting must be duly attested failing which tenders are likely to be rejected.

4. Firms will have to attach the list of customers to whom they have supplied similar items in previous year along with performance reports. Total turnover of the firm must be at least two times the Schedule of items for which firm has submitted its bids per year in the last 02 consecutive years. A certificate to these effects should be issued from the sales tax department. The firm has to submit copy of audited balance sheet.
5. In case of dealer, the firm has to submit the authorization certificate from Original Equipment manufacturer.
6. All tenders received after due date and time will not be considered.
7. Price quoted should be F.O.R. **Uttar Pradesh Textile Technology Institute, Kanpur (UP)**.
8. The detailed specifications and make of the equipments /material must be given.
9. Conditions regarding validity of tenders, delivery period, payment discount, warrantee and Guarantee Period, Trade Tax, Excise & Custom Duty and insurance etc. should be mentioned clearly. Net prices should be quoted.
10. No sales tax form "C" or "D" etc. for concessional rates shall be provided by the Institute.
11. The quoted rates should be valid for at least six months from the date of opening.
12. Tenders without sample wherever required may not be accepted.
13. In case of imported equipment, commission allowed to agents must be specifically mentioned.
14. Free demonstration shall be done in the Institute premises if required.
15. Transit Insurance shall be done by the suppliers at their own cost.

16. Tenders without mentioned earnest money deposit will not be entertained.
17. For the product quoted, provide the list of existing users (to whom you have supplied the same product) with current telephone numbers (to whom you have supplied the same product)
18. Standing of the firm and major supplies in recent past with proof must be attached.
19. In case of dealers, authorized distributors, dealer's certificate from OEM is required.
20. Document through bank and advance payment on proforma invoice may not be accepted.
21. The quantity mentioned in bill of quantity against each items will be treated as provisional and it may be changed depending on actual requirement.
22. The successful bidder has to submit 10% security in the form of Bank Guarantee/ Fixed Deposit for the period of one year from the date of commissioning.
23. Payment will be made only after successful installation and operation in the concerned department after verification from the departments.
24. If the supply is not made within prescribe period the firm shall be liable to pay a penalty equal to 0.10% of value of purchase order per day. However this can be waved off by the Director under special circumstances. If the firm fails to supply the equipments earnest money deposit will be forfeited.
25. Deduction of TDS as per Govt. Rules.
26. Tenders will be opened in the presence of those who choose to be present on the opening date and time.
27. Any dispute will be subjected to Kanpur (UP) Jurisdiction only.
28. Conditional tenders will not be accepted.
29. The Director reserves the right to accept or reject any or all tenders without assigning any reason thereof.

**Director**  
Uttar Pradesh Textile Technology Institute,  
Kanpur

**Uttar Pradesh Textile Technology Institute**

**Kanpur (U.P.) 208001**  
**TENDER DOCUMENT**

Bidders Proforma-2

Tender	Purchase and commissioning of Equipments for, <b>Schedule no: -----</b>
Name of the firm with full address and contact number	
FOR	<b>Uttar Pradesh Textile Technology Institute, Kanpur (U.P.) 208001</b>
Cost of Tender Document	DD No.:                      Amount: Bank:                        Date: Drawn in favour of Director, UPTTI Kanpur
EMD Details	EMD Amount: Name of Bank & Branch: Drawn in favour of Director, UPTTI Kanpur
PAN/TIN/ TAN No.	PAN: TIN: TAN: (Attach Proof)
Original Equipment Manufacturer/ Authorization Letter from O.E.M.	Attach Proof
Turnover I the last three years	Attach Proof
Details of similar work executed during the last three years	Attach Proof

Signature and Seal of Bidder

**Schedule 1- UPTTI/Spg- Spinning Lab**

**Tender cost: Rs 500**

**EMD: Rs 15000.00**

**Bill of Quantity for Computer Lab:**

S. No.	Name of Equipment/ Specifications	Qty	Unit Cost	Total Cost	Remarks
1.	<p><b>Miniature Computer Controlled Fancy Doubler</b>                      Computer numerically controlled one sided lab model fancy doubling machine having 6 spindles 3” gauge, 2” ring diameter, 8” lift, having two rows of calendar rollers with back roller having independent motor with menu driven intermittent motion for fancy effect with necessary drives and controllers for fancy doubling suspended type ring rail lifting arrangement, creel suitable for cheese with individual AC variable speed motor with control system to control the speeds of spindles and take up roller. User friendly menu driven software to ease man/machine dialogue with a possibility to enter and optimize parameters while machine is running and at rest with motors, electrical PLC, computer UPS control system &amp; other accessories.</p>	01			
	<p><b>Miniature Roving Frame</b>                      Computer numerically controlled one sided miniature roving machine having 4 spindles, 110 mm gauge, 250 mm lift, 3 over 3 spring loaded drafting system, draft upto 12, individual AC variable speed motor with microprocessor control system to control the speeds of front roller, back roller, spindle and bobbins. Use menu driven software to ease man/ machine interaction with possibility to and optimize parameters while machine is at rest, PLC, computer and UPS as per machine requirement.</p>	01			

**(Breakup of price quoted as required may be given separately, but must be enclosed with this format duly attested/signed and stamped)**

We agree to supply the above goods in accordance with the technical specifications for a total contract price of RS \_\_\_\_\_(amount in figures) (Rs.....amount in words) within the period specified in the invitation of bids.

We also confirm that the normal commercial warranty/guaranteed of ..... months shall apply to the offered goods.

Signature & Seal

**Uttar Pradesh Textile Technology Institute  
Kanpur (U.P.) 208001**

**TENDER DOCUMENT**

**Bidders Proforma**

Tender	Purchase and commissioning of Equipments for Schedule No 2: <b>Weaving Lab</b>
Name of the firm with full address and contact number	
FOR	<b>Uttar Pradesh Textile Technology Institute, Kanpur (U.P.) 208001</b>
Cost of Tender Document	DD No.:                      Amount: Bank:                              Date: Drawn in favour of Director, UPTTI Kanpur
EMD Details	DD No.:                      Amount: Bank:                              Date: Drawn in favour of Director, UPTTI Kanpur
PAN/TIN/ TAN No.	PAN: TIN: TAN: (Attach Proof)
Original Equipment Manufacturer/ Authorization Letter from O.E.M.	Attach Proof
Turnover I the last three years	Attach Proof
Details of similar work executed during the last three years	Attach Proof

Signature and Seal of Bidder

**Schedule No 2- UPTTI/Wvg.- Weaving Lab**

**Tender cost: Rs 500**

**EMD: Rs 65000.00**

**Bill of Quantity for Weaving Lab:**

S. No.	Name of Equipment/ Specifications	Qty	Unit Cost	Total Cost	Remarks
1.	<p><b>Single End Sizing Unit:</b>  <b>Sizing tank:</b> Maximum capacity: 1 Litre, temperature range: 50-80°C, Electrically heated with electronic control, tank should be detachable for cleaning  <b>Yarn Breaks:</b> Equipped with yarn break detecting device, machine stops when yarn breaks  <b>Drying:</b> Electronically controlled heated drying through hot air  <b>Power:</b> 220 V, Single phase, 50-60 Hz  <b>Controller:</b> Electrically controlled both speed and temperature  <b>Yarn trarse:</b> Automatic yarn traverse device in yarn drying chamber</p>	01			
	<p><b>Single End warping machine:</b>  <b>Working width:</b> 508 mm/ 20 inch maximum  <b>Warping length:</b> approx.3.6 meter.  <b>Colour change:</b> Shifting movement controlled by computer. Colour change manually through alerts from computer.  <b>Yarn breaks:</b> Equipped with yarn break detecting device, machine stops when yarn breaks  <b>Air consumption:</b> 100 litre, air pressure 6-9 kg-f/cm<sup>2</sup>  <b>Controller:</b> Independent PC based controller with built in designs wditting software</p>	01			
	<p><b>Sample Rapier Loom</b>  <b>Weaving width:</b> 508 mm/ 20 inch max.  <b>Speed:</b> 75 ppm max. (with reference to fabric width of 20")/ 85 ppm Max. (w.r.t. to fabric width of 10")  <b>Controller:</b> PC based industrial PC/ windows wmbded operating system  <b>Weft selector:</b> 8 cplour electronic weft selection device  <b>Fabric takeup:</b> Elecronically controlled, weft density can be changed freely within the same weave.  <b>Warp Let-off:</b> Positive electronically controlled, digital display of warp tension, optional second beam assembly  <b>Shedding:</b> Computerized controller, 20 heald framed driven pneumatically by air cylinder 9first and and second heald frame for leno end selvedges), Optinal upto 24 heald frames  <b>Drawing-in:</b> Heald frames can be separated for healds and reeds drawing-in  <b>Beat-up:</b> Computer controlled driven independently by servo motor, suitable for heavy fabrics. Position and quantity of beat can be adjusted.  <b>Weft Insertion:</b> Single rapier weft insertion driven by servo motor. Speed could be controlled independently through computer; insertions can be adjusted for 10 or 20 inches.  <b>Weft breaks:</b> Equipped with weft break detecting device. Lom stops when weft breaks</p>	01			

	Warp breaks: warp stop device Design: Design and editing software Air consumption: 880 litre per minute, air pressure, 6-9 kgf/cm <sup>2</sup> Power: 220 Volt single phase, 50-60 Hz.				
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**(Breakup of price quoted as required may be given separately, but must be enclosed with this format duly attested/signed and stamped)**

We agree to supply the above goods in accordance with the technical specifications for a total contract price of RS \_\_\_\_\_ (amount in figures) (Rs.....amount in words) within the period specified in the invitation of bids.

We also confirm that the normal commercial warrantee/guaranteed of ..... months shall apply to the offered goods.

Signature & Seal



**Uttar Pradesh Textile Technology Institute  
Kanpur (U.P.) 208001**

**TENDER DOCUMENT**

Bidders Proforma

Tender	Purchase and commissioning of Equipments for Schedule No 3A: <b>Textile Testing Lab</b>
Name of the firm with full address and contact number	
FOR	<b>Uttar Pradesh Textile Technology Institute, Kanpur (U.P.) 208001</b>
Cost of Tender Document	DD No.: Amount: Bank: Date: Drawn in favour of Director, UPTTI Kanpur
EMD Details	DD No.: Amount: Bank: Date: Drawn in favour of Director, UPTTI Kanpur
PAN/TIN/ TAN No.	PAN: TIN: TAN: (Attach Proof)
Original Equipment Manufacturer/ Authorization Letter from O.E.M.	Attach Proof
Turnover I the last three years	Attach Proof
Details of similar work executed during the last three years	Attach Proof

Signature and Seal of Bidder

**Schedule No 3A- UPTTI/- Testing Lab**

**Tender cost: Rs 500**

**EMD: Rs 50000.00**

**Bill of Quantity for Textile Testing Lab:**

S. No.	Name of Equipment/ Specifications	Qty	Unit Cost	Total Cost	Remarks
1.	<p><b>Yarn evenness tester</b>                      Evenness tester having facility for simultaneous measurement and display of results for yarn, sliver and roving.                      Principle of measurement: capacitive type                      Application range: spun yarn, roving and sliver- 4 tex to 12 ktex, Test speed : 25-400 m/min                      Output of product                      numerical results: Unevenness U% (within the range of 0.5 to 40% or more), coefficient of variation CV%, CV % of different cut lengths (1,3,10,50 or 100m), Index of irregularity, Imperfections (12 levels), relative count, DR %, Hairiness Index &amp; sh &amp; Sh CV (1m,3m,10m, 50 m &amp; 100m)                      Graphical results: Normal diagram, Cut length diagram (with user selectable longitudinal zooming), spectrogram and information analysis, variance length curves (from 1 cm to 400m), three dimensional spectrograms and variance length curves, histogram (frequency distribution diagrams), mass DR curve, imperfection distribution chart.  <i><b>Slubs and Fancy yarn measurement with black board and fabric simulation along with respective results and graphical analysis. (Optional price to be quoted separately)</b></i></p>	01			

**(Breakup of price quoted as required may be given separately, but must be enclosed with this format duly attested/signed and stamped)**

We agree to supply the above goods in accordance with the technical specifications for a total contract price of RS \_\_\_\_\_ (amount in figures) (Rs.....amount in words) within the period specified in the invitation of bids.

We also confirm that the normal commercial warranty/guaranteed of ..... months shall apply to the offered goods.

Signature & Seal

**Uttar Pradesh Textile Technology Institute  
Kanpur (U.P.) 208001**

**TENDER DOCUMENT**

Bidders Proforma

Tender	Purchase and commissioning of Equipments for Schedule No 3B: <b>Textile Testing Lab</b>
Name of the firm with full address and contact number	
FOR	<b>Uttar Pradesh Textile Technology Institute, Kanpur (U.P.) 208001</b>
Cost of Tender Document	DD No.:                      Amount: Bank:                         Date: Drawn in favour of Director, UPTTI Kanpur
EMD Details	DD No.:                      Amount: Bank:                         Date: Drawn in favour of Director, UPTTI Kanpur
PAN/TIN/ TAN No.	PAN: TIN: TAN: (Attach Proof)
Original Equipment Manufacturer/ Authorization Letter from O.E.M.	Attach Proof
Turnover I the last three years	Attach Proof
Details of similar work executed during the last three years	Attach Proof

Signature and Seal of Bidder

**Schedule 3B- UPTTI/Textile Testing Lab**

**Tender cost: Rs 500**

**EMD: Rs 9000.00**

**Bill of Quantity for Textile testing Lab:**

S. No.	Name of Equipment/ Specifications	Qty	Unit Cost	Total Cost	Remarks
1.	<b>Stelometer:</b> Range: 2-7 Kg [force-breaking strength], 0-50% (elongation), Loading Rate: 1 Kg force/ sec	01			
2	<b>Trash Analyzer:</b> Model to determine lint, trash & dust content with a sample of cotton fibre 200 gm. The analyser uses the carding principle with air separation of lint and non-lint content. It should atleast analyse lint, primary trash deposited in the front tray and fin trash collected in the rear tray. It should be self contained with single phase drive motor and two stage filters. The feed tray should be detachable and all doors are safely interlocked.	01			
3	<b>Digital fabric thickness tester:</b> Range of measurement: 0-10 mm, Least count : 0.001 mm, Standard load on the pressure foot to ensure accuracy, supplied with calibration and inspection certificate, consist of a dial micrometer with a flat pressure foot and a flat anvil.	01			
4	<b>Digital microscope:</b> Magnification of 5X,10X, 20X, 40X, & 100X lenses, monocular projection microscope with fibre cross section kit, high resolution 8M pixel CCD camera and imaging software with measurement facilities. Scope of use: cross-section of fibre or yarn, analysis of any fibre, yarn and fabric, Image/video capturing, USB interface, Zoom	01			
5	<b>GSM Cutter:</b> The equipment consists of sample cutter with safety lock. The instrument should be equipped with a set of four replaceable blades. Two special grade cutting pads are provided with the unit. Reliable, rapid and easy to use, 100 square centimeter cutting area, depth of cutting upto 5 mm,	01			
6	<b>Martindale abrasion tester:</b> The equipment is used for estimating the pilling and amount of loss due to abrasion of textile samples. The equipment has a brass plate resting on three supports. Each support consists of ball bearing about 16 mm in diameter moving freely in a	01			

<p>brass cup. There is machined steel weaving plate in each cup and are coplanar. One plate is given the resultant movement of two simple harmonic motions at right angles in such a way that every point on it traces out in a path known as Lisslous figures. The revolution per minute is 50. There are crecesses on two sides of the plate into which four specimen holder should be fitted. To test piling and abrasion resistance of any type of fabric loke knitted, wovwn and coated fabric as per standards ASTM 4966, ISO 4570, BS 3424, 4 heads with digital display with accessories.</p> <p>140 mm cutter- 1 pc, 38 mm cutter, 1-pc, Weights for 12 KPa and 9 KPa, rubber pad- 2 pc, Abradant wool cloth, non-woven felt 140 mm, PU foam.</p>				
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**(Breakup of price quoted as required may be given separately, but must be enclosed with this format duly attested/signed and stamped)**

We agree to supply the above goods in accordance with the technical specifications for a total contract price of RS \_\_\_\_\_(amount in figures) (Rs.....amount in words) within the period specified in the invitation of bids.

We also confirm that the normal commercial warrantee/guaranteed of ..... months shall apply to the offered goods.

Signature & Seal

**Uttar Pradesh Textile Technology Institute  
Kanpur (U.P.) 208001**

**TENDER DOCUMENT**

Bidders Proforma

Tender	Purchase and commissioning of Equipments for Schedule No:4 <b>Textile Chemistry Lab</b>
Name of the firm with full address and contact number	
FOR	<b>Uttar Pradesh Textile Technology Institute, Kanpur (U.P.) 208001</b>
Cost of Tender Document	DD No.:                      Amount: Bank:                         Date: Drawn in favour of Director, UPTTI Kanpur
EMD Details	DD No.:                      Amount: Bank:                         Date: Drawn in favour of Director, UPTTI Kanpur
PAN/TIN/ TAN No.	PAN: TIN: TAN: (Attach Proof)
Original Equipment Manufacturer/ Authorization Letter from O.E.M.	Attach Proof
Turnover I the last three years	Attach Proof
Details of similar work executed during the last three years	Attach Proof

Signature and Seal of Bidder

**Schedule No 4- UPTTI/ Textile Chemistry Lab**

**Tender cost: Rs 500**

**EMD: Rs 10000.00**

**Bill of Quantity for Textile Chemistry Lab:**

<b>S. No.</b>	<b>Name of Equipment/ Specifications</b>	<b>Qty</b>	<b>Unit Cost</b>	<b>Total Cost</b>	<b>Remarks</b>
1	<p><b>Computer colour matching machine</b> CCM system with new updated software and it will consist of – spectrophotometer, modern computer and coloured printer Spectrophotometer: measurement modes: reflectance and transmittance, Measurement principle- dual beam, wave length range: 360 nm to 740 nm, Wave length interval: 10 nm with three builtin illuminants, Software specification: Quality assurance software, formulation software, batch correction software, library software It should be able to evaluate <math>\Delta E</math>, and K/S value, Reflectance and absorbance CURVE, RECIPE FORMULATION ETC., Accessories: (a) hank holder, (b) cuvette for liquid (c) sav plate</p>	01			
02	<p><b>Digital weighting balance with battery backup:</b> Capacity 500 gms, readability or least count <math>\pm 0.01</math> gm/ 10 mg, pan size: 15 cm,</p>	04			
03	<p><b>Water bath:</b> Should be made of coper single wall with 6 holes for tumblers fitted with thermostat. Bath dimensions approximate: lengh 18”, width-12”, height 12”(± 2’)</p>	20			

**(Breakup of price quoted as required may be given separately, but must be enclosed with this format duly attested/signed and stamped)**

We agree to supply the above goods in accordance with the technical specifications for a total contract price of RS \_\_\_\_\_ (amount in figures) (Rs.....amount in words) within the period specified in the invitation of bids.

We also confirm that the normal commercial warrantee/guaranteed of ..... months shall apply to the offered goods.

Signature & Seal of Bidder

**Uttar Pradesh Textile Technology Institute  
Kanpur (U.P.) 208001**

**TENDER DOCUMENT**

Bidders Proforma for Schedule No 5

Tender	Purchase and commissioning of Equipments for Schedule No 5: <b>Man Made Fibre Technology</b>
Name of the firm with full address and contact number	
FOR	<b>Uttar Pradesh Textile Technology Institute, Kanpur (U.P.) 208001</b>
Cost of Tender Document	DD No.:                      Amount: Bank:                          Date: Drawn in favour of Director, UPTTI Kanpur
EMD Details	DD No.:                      Amount: Bank:                          Date: Drawn in favour of Director, UPTTI Kanpur
PAN/TIN/ TAN No.	PAN: TIN: TAN: (Attach Proof)
Original Equipment Manufacturer/ Authorization Letter from O.E.M.	Attach Proof
Turnover I the last three years	Attach Proof
Details of similar work executed during the last three years	Attach Proof

Signature and Seal of Bidder



**Schedule No 5- UPTTI/ Man Made Fibre Technology Lab**

**Tender Cost: Rs 500**

**EMD: Rs 19000.00**

**Bill of Quantity for MMFT Lab:**

S. No.	Name of Equipment/ Specifications	Qty	Unit Cost	Total Cost	Remarks
1.	<p><b>High Resolution Multi head (5 station) Digital Microscope:</b>                      Basic stand with 12V 100W halogen stabilized power supply ( 90-250V ).                      5 function 3- steps focus drive for fast &amp; easy focusing in low &amp; high magnifications.                      X/Y drive knob attachable to left or right for operator convenience.                      Trinocular tube with 50/50 beam splitter for equal distribution of light both in observation eyepiece &amp; camera.                      HC optical system for best optical &amp; mechanical synchronization.                      Synchronized light brightness objectives &amp; eyepiece tubes with eyepieces for all stations                      7- Positions nosepiece.                      Universal turret condenser suitable for BF/PH/DF..                      Eyepiece 10x &amp; Objectives Hi Plan 4x,10x Ph,20x Ph 40x Ph,63x Ph 100x oil Ph                      .Digital camera attachments with CMOS sensor, S/W for micron bar, annotation &amp; point to point measurement. Camera should have; HD live image for operation with or without computer, full HD movie clips recorded directly to the SD memory card, direct control of all camera parameters via remote control.Pixel seize 3.34 X 3.34 μm, Exposure time 0.5 m sec- 500m sec                      C-mount 0.55x HC s/w kit for following features:                      Microscope and Digital Camera Configuration and Control all fully integrated System                      Auto and Manual Exposure adjustments to allow optimized imaging.                      Image Calibration based on data read directly from Leica microscopes and cameras.                      Scale Bar(micron Bar) displayed on the live image to indicate image size.                      Digital Image Acquisition into the familiar Image Explorer tree and folder structure. Module to include database                      Thumbnail Gallery of acquired images for quick and easy review.Text,                      Scale Bar and Distance Tools for straightforward image annotation.                      Interactive Linear Measurement Tools both for Live &amp; Acquired Image                      Image Comparison Tools for comparison of Live &amp; acquired images                      Savings of Images and Print Command direct in the window                      Pan &amp; Zooming of the acquired images</p>	01			
	<b>High resolution Digital Microscope along with measurement software</b>	01			

	<p><b><u>Zoom Camera Head</u></b>  <b>Effective pixels-</b> Approx. 2 megapixels  <b>CCD-CCD:</b> 1/1.8" color CCD, total pixels approx. 2.11 megapixels  Frame rate: 28fps (selectable 28fps (800x600) or 15fps (1600x1200) when connected to Motorized Focusing Stand).  <b>Optics-</b>Magnification: 3x to 60x (magnification on built-in 2.7" monitor),  Total Magnification- 20x to 400x continuous zoom.  Optical zoom ratio = 20:1  <b>Working distance-</b>29 mm.  <b>FOV-</b>Maximum diagonal field of view 20mm.  <b>Illumination-</b>Light source: white LED  Illumination method: Episcopic illumination from around the objective lens  4-segment ring LED (top/bottom/left/right)  <b>Recording-</b>Storage media: SD memory card, SDHC memory card (max. 16GB)  Recording pixels: 2M (1600x1200), 0.5M (800x600)  <b>Aperture-</b>Resolution preferred mode/Depth-of-focus preferred mode  <b>Image Edit-</b>EDF: Still image display, 3D image display, <b><u>one touch EDF</u></b>  <b>LCD Monitor-</b>2.7" TFT color LCD, turned off automatically when connected to Motorized Focusing Stand  <b>Image playback-</b>Full-frame view, thumbnail view (9 frames), zoom view (scrollable)  <b>Image deletion-</b>Quick delete, select image delete, folder delete, card format  <b><u>Motorized Focusing Stand</u></b>  <b>Stroke-</b>Z axis stroke: 150mm (upward 148mm, downward 2mm)  Upper and lower limit can be adjusted  <b>Stage-</b>3"x2" Stage with glass plate  <b><u>Touch Panel Monitor with built in measurement software.</u></b>  <b>Should be interface with the zoom camera head and motorized stand.</b>  <b>Display size -</b>17.0" (display area 333.9mm x 270.3mm)  <b>Resolution-</b> SXGA (1280x1024)  <b><u>Software features- All the measurements i.e, two points, distance, line, circle, pitch, angle etc.</u></b>  <b><u>Optional / Essential Accessories-</u></b>  <b><u>Double arm fiber illumination.</u></b></p>				
2	<p><b><u>Precision Fibre Microtome:</u></b>  Fully automatic microtome features motorized specimen advance along with digital controls and settings, sectioning as well as specimen advance is automatic in fully automatic microtome along with option of manually operated specimen feed hand wheel.  Section thickness range: 0.5- 100 µm, 0.5-2 µm increment 0.5 µm, 2-10 µm increment 2 µm, 10-20 µm increment 5 µm, 20-100 µm increment 5 µm.  Trimming thickness range: 5-600 µm  1-10 µm increment 1 µm, 10-20 µm increment 2 µm, 20-100 µm increment 50 µm, 100-600 µm increment 20 µm  Specimen retraction range: 20 µm</p>	01			

	Cutting stroke: 72 mm Total specimen advance: 28 mm Maximum sectioning speed: 400 mm/s				
3	<b>Microscopy cross-section kit:</b> It contains the necessary equipment for making fibre and yarn cross-section as presented in AATCC 20-2007 test method. The kit includes all accessories and consumables to prepare fibre cross-section to use microscopic analysis.	01			

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Signature & Seal of Bidder

**Uttar Pradesh Textile Technology Institute  
Kanpur (U.P.) 208001**

**TENDER DOCUMENT**

Bidders Proforma Schedule No 6

Tender	Purchase and commissioning of Equipments for <b>Schedule No 6: Chemistry Lab</b>
Name of the firm with full address and contact number	
FOR	<b>Uttar Pradesh Textile Technology Institute, Kanpur (U.P.) 208001</b>
Cost of Tender Document	DD No.:                      Amount: Bank:                        Date: Drawn in favour of Director, UPTTI Kanpur
PAN/TIN/ TAN No.	PAN: TIN: TAN: (Attach Proof)
Original Equipment Manufacturer/ Authorization Letter from O.E.M.	Attach Proof
Turnover I the last three years	Attach Proof
Details of similar work executed during the last three years	Attach Proof

Signature and Seal of Bidder

**Schedule No 6- UPTTI/Chemistry Lab**

**Tender cost: Rs 500**

**EMD: Rs 8500.00**

**Bill of Quantity for Chemistry Lab:**

S. No.	Name of Equipment/ Specifications	Qty	Unit Cost	Total Cost	Remarks
1.	<b>Double beam UV visible spectrophotometer (for thin film and liquids):</b> Wave length range 190-1100 nm, wave accuracy 1, wavelength reproducibility $\pm 0.2$ nm, spectral bandwidth 1 nm or better, optical system double beam, quartz coated optics, display range -3 to 6A, photometric accuracy $\pm 0.005$ at 1A, photometric reproducibility $\pm 0.002$ at lamp source deuterium lamp; tungestun lamp, detector photodiode, monocromator grating based, (1200 lines/mm) peak to peak noise <0.0002 Abs RMS noise < 0.0001A, stability < 0.001 Abs/hr, stray light < 0.05% T at 220 nm and 340 nm, display range LCD, VGA graphics, supplied interface RS-232-C (computer) Test storage CD drive, non volatile memory, language- English, suitable for power 180 to 240 V, 50 Hz, single phase supply. Standard control system for single position cuvette holder between temperature range (0-100°C), temperature control system, standard PC software, two pair of absorption cuvette (one path length and other 5 mm path length)	01			
2	<b>Digital pH meter:</b> Range: -2.000 to 19.000, upto 0.001 pH resolution $\pm 0.002$ pH accuracy, Line display, high/lpw set point alarm upto 5 pH calibrations, display last calibration date and time. Memory storage up to 100 readings, auto data logging via time stability. ORP measurement capability, Output- RS 232 interface etc. System should have docking station and suitable software for data transfer	02			

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Signature & Seal of Bidder

**Uttar Pradesh Textile Technology Institute  
Kanpur (U.P.) 208001**

**TENDER DOCUMENT**

Bidders Proforma Schedule No 7

Tender	Purchase and commissioning of Equipments for Schedule No 7: <b>Engineering Workshop</b>
Name of the firm with full address and contact number	
FOR	<b>Uttar Pradesh Textile Technology Institute, Kanpur (U.P.) 208001</b>
Cost of Tender Document	DD No.:                      Amount: Bank:                         Date: Drawn in favour of Director, UPTTI Kanpur
EMD Details	DD No.:                      Amount: Bank:                         Date: Drawn in favour of Director, UPTTI Kanpur
PAN/TIN/ TAN No.	PAN: TIN: TAN: (Attach Proof)
Original Equipment Manufacturer/ Authorization Letter from O.E.M.	Attach Proof
Turnover I the last three years	Attach Proof
Details of similar work executed during the last three years	Attach Proof

Signature and Seal of Bidder

**Schedule No 7- UPTTI/- Engineering Workshop**

**Tender cost: Rs 500**

**EMD: Rs 20000.00**

**Bill of Quantity for Engineering Workshop:**

S. No.	Name of Equipment/ Specifications	Qty	Unit Cost	Total Cost	Remarks
1.	<b>Centre Lathe m/c:</b> Height of centres- 220 mm, swing over bed-500 mm, swing over cross slide- 270 mm, distance between centres- 1000 mm, spindle Nose- A 2-6, Bore- 53 mm, spindle speed range- 40-2040 rpm forward, 60-1430 rpm reverse, feed range (longitudinal) 0.04-2.24 mm/rev, feed range (cross)- 0.02-1.12 mm/rev, Lead screw pitch- 6 mm, Metric threads- 0.5-28 mm, Inch threads- 56-1 tpi, Module threads- 0.25-14 mm, Diametral pitch- 112-2 mm, Tailstock sleeve travel – 200 mm, main motor power- 7.5 KW	01			
2	<b>Hydraulic power hacksaw:</b> Cap of round bar- 160 mm, Cap of flat bar- 250x 160 mm, cap of square bar- 150x 150 mm, Stroke- 135 mm, Stroke per minute approx- 100-125 mm, Electric motor- 10.0 hp, rpm of electric motor- 1440 rpm, Saw blade dimensions -305 mm x 36 mm x 2 mm	01			
3	<b>Surface Grinding m/c:</b> Working surface of the table: 225x450mm, Max. height from Table to grinding wheel: 275 mm, Vertical feed least count: 0.01 mm Micro feed least count: 0.02 mm Cross feed least count: 0.05 mm Spindle speed: 2800 rpm Size of grinding wheel (Dia x widthx bore) 200 x 13x 31.75 mm, Electric motor recommended 1 hp, 2800 rpm Magnetic chuck recommended: 200 x 450 mm Accessories: Balancing stand & mandrel, Diamond dresser, lubrication pump, Tool Kit, One grinding wheel with flange, coolant equipments, wheel flange unit	01			
4	<b>Bench Drilling m/c:</b> Drilling capacity in steel: 20 mm Drilling capacity in C.1: 22 mm Tapping capacity in steel: 16 mm No of spindle speed: 8 Range of speed (RPM): 86-3360 Spindle taper: MT-2 Dist spindle centre to column: 200 mm Spindle travel: 130 mm Size of square table: 270 x 270 Max. distance between spindle nose to working table: 710 mm Max. distance between spindle nose to base plate: 925 mm Column diameter: 70 mm Size of base plate: 470 x 290 mm Electric motor: 1 h.p, 1440 rpm:	01			
5	<b>Rockwell hardness tester:</b> Test loads of 3 and 10 Kg pre load, 15, 30, 45, 60, 100, 150 kgf main load, Max. test height: 230 mm Depth of throat: 133 mm	01			

	<p>Max. depth of elevating: 240 mm</p> <p>Minor load auto-brake system,</p> <p>Minor dwell time 0.1 to 50.0</p> <p>Major dwell time 1.0 to 50.0</p> <p>USB and RS 232 data port for easy data transfer to MSR Excel or other applications</p> <p>(Repeatability of machine to be shown on standard specimen)</p> <p>Provision for number of tests, mean, standard deviation, Max. minimum, range, CP, CPk, Individual test hardness numbers</p> <p>Compliance standards: ASTM E18, ASTM D785, ASTM B294, JISZ2245, GB/T 230</p> <p>Additional indenter and standard test</p> <p>Indenter and test block should be certified by any one of these (ASTM, DKD, UKAS, NABL)</p> <p>Automatic load selection with automatic zero setting dial gauge, drive motor- single phase 230C, 50 cycles.</p>				
6	<p><b>Bending beam apparatus:</b> Supporting Frame: Aluminum profile and stainless steel angle 1400 mm long, vertical force spring support- 3 no</p> <p>Knife edge support- 1 No, Weight hangers- 40 Nos., Weight set- 100 gm- 1 Kg, Beam length- 1200 mm, Beam material- Mild steel- 01, aluminium- 1, Brass- 01, Plywood- 01, Dial gauge: 3, 0-20 mm range x 0.01 mm graduated.</p>	01			
7	<p><b>Cantilever beam apparatus:</b></p> <p>Supporting frame: stainless steel, Horizontal arm: 75 cm, vertical arm: 20 cm, Beam length; 100 cm, Beam material: Mild steel round bar- 02, dia- 6 mm</p> <p>Dial gauge: 02, 0-20 mm range x 0.01 graduated</p> <p>Weight set; 100 gm to 1 Kg.</p>	01			
8	<p><b>Roof Truss Model:</b> Wooden bench (teak): 90 x 18 cm, Rafter struts- 021, Length-70 cm</p> <p>Restraining tie- 01, mounted on a self contained bench top base,</p> <p>Both struts and tie incorporate linear, direct reading spring balances to measure forces, Lloading at the hinged apex by load hanger</p> <p>One strut hinged support and another should roller support, Set of weights- ½ Kg- 06, 1 Kg- 06</p>	01			
9	<p><b>Combined inclined plane and friction slide apparatus:</b> Wooden plane of a 90x18 cm with frictionless pulley having adjustment for setting the required angle precisely.</p> <p>Wooden carries cwith different surfaces: wood, glass, copper, plywood</p> <p>Pan: 01, Weight set: 10-10 gm</p>	01			
9	<p><b>Vertical Torsion Apparatus:</b></p> <p>Heavy mild steel frame mounted on a heavy tri-leg cast iron base, Jaw chuck- 3,</p> <p>Rod: 900 mm length and 5 mm dia, material mild steel</p> <p>Circular scale with single degree pointer: 3, Pan: 2, Bearing pulley: 2</p>	01			
10	<p><b>Law of parallelogram of forces:</b> Wooden board 65 x 50 cm with two aluminum pulley 50 mm diameter,</p> <p>04 Clamp for mounting the board</p> <p>03 hanger iron nickel plated</p> <p>12 slotted weight of 50 gm each</p>	01			



11	<b>Simple and compound gear train apparatus:</b> 40 spur gears, 40, 60, 80 & 100 tooth gears Durable brass gears with module of 1 Interlocking gears for compound gear train work Mounting stud for gear and spacer storage A wooden solid base mounts an epicyclic arm, which should free to rotate about a fixed pivot on bearings. Gears should mounted on this arm	01			
14	<b>Worm and worm wheel apparatus:</b> Minimum module: 0.2 mm/Max. module: 18 mm Minimum D.P. (Diametrical pitch): 85/ Max. diametrical pitch: 2 Minimum O.D: 10 mm/ Max. OD: 500 mm <b>Worm Wheel:</b> Minimum module: 0.2 mm/Max. module: 18 mm Minimum D.P. (Diametrical pitch): 85/ Max. diametrical pitch: 2 Minimum O.D: 4mm/ Max. OD: 1800 mm	01			

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Signature & Seal of Bidder

**Uttar Pradesh Textile Technology Institute**  
**Kanpur (U.P.) 208001**

**TENDER DOCUMENT**

**Bidders Proforma Schedule No 8A**

Tender	Purchase and commissioning of Equipments for Schedule No 8A: <b>Electrical Lab</b>
Name of the firm with full address and contact number	
FOR	<b>Uttar Pradesh Textile Technology Institute, Kanpur (U.P.) 208001</b>
Cost of Tender Document	DD No.:                          Amount: Bank:                                  Date: Drawn in favour of Director, UPTTI Kanpur
EMD Details	DD No.:                          Amount: Bank:                                  Date: Drawn in favour of Director, UPTTI Kanpur
PAN/TIN/ TAN No.	PAN: TIN: TAN: (Attach Proof)
Original Equipment Manufacturer/ Authorization Letter from O.E.M.	Attach Proof
Turnover I the last three years	Attach Proof
Details of similar work executed during the last three years	Attach Proof

Signature and Seal of Bidder

**Schedule No 8A- UPTTI/ Electrical lab**

**Tender cost: Rs 500**

**EMD: Rs 7500.00**

**Bill of Quantity for Electrical lab & Electric Facility:**

S. No.	Name of Equipment/ Specifications	Qty	Unit Cost	Total Cost	Remarks
1.	<b>DC motor separately exited type</b> D.C. motor: 2.0 kW, Laminated Yoke, Separately exited, Make: Kirloskar, Armature voltage: 220 V max. Field voltage: 220 V Max., 1500 rpm, Insulation class: F/ Class H., Protection: IP 23/w/54, Forced cool	01			
2	<b>DC motor controller for 5 KW motor:</b> AC input voltsge 415 ± 10%, 3 phase, 3 wire, frequency 50 Hz, DC output voltage: 0-250 V, Field voltage: 220 volt-180 Suitable for 5.0 kW motor, Ambient: 0-50°C, Humidity: 0-85%, RH, Non condensing	01			
3	<b>Variable frequency AC drive single phase 240V:</b> Input voltage: 220 V, Output voltage: 208-240V AC (analogous to input voltage) Input frequency: 48-63 Hz, Output frequency: 0-400 Hz, Input phase: 1, Output phase: 3 phase, Allen B, ABB, Siemens, Eq. Control Mode: SPWM Input power: 220 V, Class: 220±15%. Digital display & status indicator lamp: displaying frequency, current, revolution, voltage, counter, temperature, Forward and Reverse rotation, and fault etc., working temperature: 10-50°C, Humidity: 0-95% relative Suitable for 3 phase 2 kW, 50 Hz, induction motor. Running, reversing and plugging operation to be displayed to the students	01			

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Signature & Seal of bidder

**Uttar Pradesh Textile Technology Institute  
Kanpur (U.P.) 208001**

**TENDER DOCUMENT**

**Bidders Proforma Schedule No 8B**

Tender	Purchase and commissioning of Equipments for Schedule No 8B: <b>Utilities</b>
Name of the firm with full address and contact number	
FOR	<b>Uttar Pradesh Textile Technology Institute, Kanpur (U.P.) 208001</b>
Cost of Tender Document	DD No.:                      Amount: Bank:                         Date: Drawn in favour of Director, UPTTI Kanpur
EMD Details	DD No.:                      Amount: Bank:                         Date: Drawn in favour of Director, UPTTI Kanpur
PAN/TIN/ TAN No.	PAN: TIN: TAN: (Attach Proof)
Original Equipment Manufacturer/ Authorization Letter from O.E.M.	Attach Proof
Turnover I the last three years	Attach Proof
Details of similar work executed during the last three years	Attach Proof

Signature and Seal of Bidder

**Schedule No 8B- UPTTI/ Utilities**

**Tender cost: Rs 500**

**EMD: Rs 9000.00**

**Bill of Quantity for Utilities:**

S. No.	Name of Equipment/ Specifications	Qty	Unit Cost	Total Cost	Remarks
1	<b>Windows AC:</b> 1.5 Ton Capacity, at least 5 star rating with digital display, rotary compressor and wall mounted suitable electronic voltage stabilizer, Brand: Voltas/Blue Star/Hitachi/Samsung/ LG/ Panasonic/ O General	08			
2	<b>Split AC:</b> 1.5 Ton Capacity, at least 5 star rating with digital display, rotary compressor and wall mounted suitable electronic voltage stabilizer, Brand: Voltas/Blue Star/Hitachi/ Samsung/ LG/ Panasonic/ O General	1			
3	<p><b>On-line UPS 5.0 kVA/ 6.0 kVA suitable for 16 batteries of 12 Volt 42 Ah (with battery bank), Single Phase Input and Single phase Output.</b></p> <p>Technology: PWM- IGBT, True online double conversion type with compliance of Galvanic Isolation between input and output. Static bypass and switch-over time less than 5ms. Input voltage- 160 to 280 V, Input frequency: <math>\pm 3</math> Hz. Output parameters: Voltage 230 AC (Single Phase) O/p frequency: 50 Hz<math>\pm</math> 0.1 Hz, wave form sine wave. Total harmonic distortion less than 3%, Transient recovery within 3 cycle, Inverter efficiency: not less than 90%, Adjustable range <math>\pm 10</math> V AC voltage stabilizing, <math>\pm 1\%</math> for DC input variation &amp; output load variation, Power factor 0.8, Lagging upto unity. Crest factor more than 3:1, overall efficiency: more than 90% at full load. Acoustic: less than 50dB A on battery Mode at full load, Protection: generally UPS must have protection for IGBT, snubber circuit across all semiconductors, compliance independent earthing terminal, Provision for battery isolation. Protection against surges.</p> <p>and spikes, output over voltage, overload, short circuit, battery low voltage, Excess battery charging protection through Mains cutoff, Input under and over voltage trip, Low and High frequency cutoff, Software for UPS management including auto shutdown will be preferred as the the part of UPS. Warranty: 3 years Minimum. The rates must include Freight and insurance etc.</p>	01			

	(No other charges are payable). Rates must be for delivery at our stores and installation. <b>Battery Bank for Online UPS 5.0 kVA/ 6.0 kVA:</b> Battery 16 Nos in quantity, Exide Type SMF (Sealed Maintenance Free), 12 V, 42 Ah, Battery should be kept in proper vertical battery stand consisting of minimum two shelves. All battery connection with the UPS should be supplied with the battery. Warranty: 24 Months onsite comprehensive for all components including for battery and connection leads. Rates are all inclusive of freight paid for delivery and installation				
04	<b>Overhead projector (HD) for NH1 and NH2 &amp; NH3 with ceiling mounting arrangement (3 Nos.):</b> High definition brightness: 3500 ANSI Lumens (Max.) <b>Contrast Ratio: 2100:1</b> , Typical (Full on/ Full Off) <b>Resolution:</b> XGA (1024x768) <b>Image Size:</b> 78.23-779.78 cm (30.5"-307") diagonal Projection Distance: 2-10 mtr, Warranty: 1- year	03			

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