

Issued To \_\_\_\_\_

**Tender Document**  
**For Purchase of**  
**Laboratory Equipment and Machines for Mechanical**  
**Engineering**

**Tender No: 01F/Engineering /2016-17**

**Department of Engineering**

Last date & Time of submission	19.05.2016, 11 A.M
Date & Time of opening technical bids	20.05.2016, 02 P.M
Date & Time of opening of financial bids	27.05.2016, 11.30 A.M

**Uttar Pradesh Textile Technology Institute**  
**11/208, Souterganj, Parwati Bagla Road, Kanpur**  
**U.P. – 208001**

**Website: [www.uptti.ac.in](http://www.uptti.ac.in)**

**INVITATION FOR QUOTATION FOR SUPPLY OF GOODS FOR MECHANICAL  
ENGINEERING DEPARTMENT**

**To**

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**Sub:** INVITATION FOR QUOTATIONS FOR SUPPLY OF Items as per List enclosed as Annexure-II

And as per

**Tender notice No: 01F/ Mech. Engineering/2016-17**

Dear Sir/ Madam,

You are invited to submit your most competitive bids for the following goods:-

Brief description of the goods	Specificati on*	Qty	Delivery Period	Place of Delivery	Installation requirement if any	Approximate Cost
Centre Lathe m/c	As per Annexure-II	01	02Months	UPTTI Kanpur -Do-	Along with installation & commissioning	10 Lac
Hydraulic power hacksaw		01				2.00 Lac
Surface Grinding m/c:		01				1.20 Lac
Bench Drilling m/c		01				03 Lac
Rockwell hardness tester		01				0.25 Lac
Bending Beam apparatus		01				0.50 Lac
Roof Truss Model:		01				0.30 Lac
Combined inclined plane and friction slide apparatus:		01				0.2 Lac
Vertical Torsion Apparatus:		01				0.10 Lac
Law of parallelogram of forces		01				0.10 Lac
Simple and compound gear train apparatus		01				0.15 Lac
Worm and worm wheel apparatus		01				0.20 Lac

1. 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.
2. The **Technical bid-I** should accompanied with the following documents:
  - a) A demand draft/FDR for earnest money @2% or more of the quoted price (Refundable to non successful bidders. The DD must be made in the name of 'Director, Uttar Pradesh Textile Technology Institute, Kanpur' payable at Kanpur.

- b) The copy of receipt of tender document fee (The tender document fee is Rs 500- and is payable in cash or through DD in favour of Director, Uttar Pradesh Textile Technology Institute, Kanpur' payable at Kanpur)
  - c) General information as per annexure-I
  - d) The certificate of authorization as dealer from the manufacturer in case of dealers. The dealers must be at least one year old with the same company as 'authorized'.
  - e) The certificate of registration in sales tax/trade tax.
  - f) PAN
  - g) The product catalogue/ literature for the quoted product giving detailed description and specification of the product.
  - h) For the product quoted, 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)
3. Firms will have to attach the list of customers to whom they have supplied similar items during the last two years along with performance reports. Total turnover of the firm must be at least 40 Lacs 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.
  4. In case of dealer, the firm has to submit the authorization certificate from Original Equipment manufacturer. The firm must have executed atleast one such order during the last two years of the items being quoted. All tenders received after due date and time will not be considered.
  5. The detailed specifications and make of the equipments /material must be given.
  6. No sales tax form "C" or "D" etc. for concessional rates shall be provided by the Institute.
  7. Tenders without sample wherever required may not be accepted.
  8. In case of imported equipment, commission allowed to agents must be specifically mentioned.
  9. Free demonstration shall be done in the Institute premises if required.
  10. Transit Insurance shall be done by the suppliers at their own cost.
  11. Tenders without mentioned earnest money deposit will not be entertained.
  12. Standing of the firm and major supplies in recent past with proof must be attached.
  13. Deduction of TDS as per Govt. Rules.
  14. Tenders will be opened in the presence of those who choose to be present on the opening date and time.
  15. Any dispute will be subjected to Kanpur (UP) Jurisdiction only.
  16. Conditional tenders will not be accepted.
  17. Warranty/ Guarantee of one year from the date of Installation shall be applicable to the supplied goods.
  18. Rates and other taxes such as excise, sales/trade tax/ VAT and levies etc should be recorded separately and very clearly. Cutting/correction, if any, shall be properly attested by the tenderer.
  19. Conditional offers or optional bidding shall not be acceptable and such offers shall be rejected out rightly.
  20. **TENDER BID-II (Financial)** shall contain rate schedule only F.O.R. **Uttar Pradesh Textile Technology Institute, Kanpur (UP) in Indian Rupee but giving breakup of their rates, sales tax/VAT, excise duty, packaging and forwarding to the**

**destination (UPTTI Stores), Installations and commissioning charges if any, and other expenditure if any** for each item quoted in separate sealed envelope and written on cover of envelope the name of equipment quoted for. 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.

**21. Evaluation of Quotations**

The purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

- a) Are properly signed; and
- b) Conform to the terms and conditions, and specifications

**The Quotations would be evaluated separately for each item.**

**22. Award of Contract**

The purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

- 22.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to award of contract.
  - 22.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
  - 22.3 Successful bidder has to submit 10 % security money for the period of 01 year from the date of supply & installation of machine. On satisfactory performance certificate the security will be returned back.
  - 22.4 Payment will be made only after successful installation and operation in the concerned department after verification from the departments.
  - 22.5 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.
  - 22.6 100% Payment after receipt, check/installation & commissioning and verification of material.
  - 22.7 Warranty/ Guarantee of one year from the date of Installation shall be applicable to the supplied goods.
23. We look forward to receiving your quotations and thank you for your interest in this purchase.
24. The Director reserves the right to accept or reject any or all tenders without assigning any reason thereof.

**Director**

Uttar Pradersh textile Technolohy Institute,  
11/208, Parvati Bagla Road, Souterganj, Kanpur

Tel No 0512-2531814, Fax No: 0512-2530199, E-mail: [info@upti.ac.in](mailto:info@upti.ac.in) *Please*

*Fill This Annexure positively*

**Annexure I**

1.	Date of Application	
2	Name of Firm	
3	Address of Firm	
4	Sales/Trade Tax Registration No	
5	Address of the firm	
6	Whether Manufacturer/ Authorized Dealer	
	Certificate of authorization in case of dealer	
7	Name & address of the service centre Or the authorized agency that will provide Warranty services on your behalf	
8	Tender fee receipt no	
	Tender fee receipt date	
9	EMD details	
	EMD Amount	
	Bank Draft Number	
	Name of Bank	
	Branch	
	Date of Bank Draft	
10	List of Users	
11	Certificate of Sales Tax Registration	
12	Original Catalogue of product	
13	Any document in requirement of general terms and condition	

Signature of Proprietor

Seal

## Annexure-II

### Name & Specifications for the machines under Tender notice No 1F

#### Deptt: Mechanical Engg.

**1. Center Lathe Machine: Capacity: Capacity:** Height of centers-220mm, Swing over bed-500mm, Swing over carriage wings-480mm, Swing over cross slide-270mm, Swing in gap-720mm, Wisth of bed-415mm, Distance between centers-1000mm,

**Head Stock:** Spindle Nose-A2-6, bore- 53mm, Speed range- 16 from 40-2040 rpm forward, 7 from 60-1430 rpm reverse, 3 jaw self centering chuck.

**Feed and Threads:** Feed range (longitudinal)- 0.04-2.24 mm/rev, Feed range (cross)-0.02-1.12 mm/rev, Lead screw pitch-6mm, Metric threads- 48 from 0.5-28mm, Inch threads-60 from 56-1tpi, Module threads-40 from 0.25-14 mm, Diametral pitch- 43 from 112-2mm,

**Carriage:** Cross slide travel-300mm, Top slide travel-150mm, Tool shank size- 25x25 mmxmm,

**Tail Stock:** Sleeve diameter-90mm, Sleeve travel- 200mm

**Type:** All Geared type

Coolant equipment with coolant safety guard

**2. Hydraulic power hacksaw:** 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

**3. Surface Grinding Machine: Table:** Working Surface of the table: 150 x 450mm, Longitudinal traverse- 460mm, Cross traverse- 165mm, **Feed:** Table longitudinal speeds- 1.5 to 18 rpm, Cross feed per stroke at each reversal- 0.175 to 1.75mm, **Wheel head:** Vertical movement (max)-280mm, speed of wheel-2800rpm, wheel size- 178x13x31mm., **Motor:** Wheel head motor- 1 HP, hydraulic pump motor-0.375 KW, Length-1650mm, Width-825mm, **Accessories:** Balancing Stand, Diamond Dresser, Lubrication Pump, Tool Kit, One Grinding Wheel with Flange, Coolant Equipments, Wheel Flange Unit

**4. Bench Drilling m/c:** Driling 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:

**5. Rockwell hardness tester:**

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, Minor load auto-brake system,

Minor dwell time 0.1 to 50.0

Major dwell time 1.0 to 50.0

USB and RS 232 data port for easy data transfer to MSR Excel or other applications  
(Repeatability of machine to be shown on standard specimen)

Provision for number of tests, mean, standard deviation, Max. minimum, range, CP, CPk, Individual test hardness numbers

Compliance standards: ASTM E18, ASTM D785, ASTM B294, JISZ2245, GB/T 230

Additional indenter and standard test

Indenter and test block should be certified by any one of these (ASTM, DKD, UKAS, NABL)

Automatic load selection with automatic zero setting dial gauge, drive motor- single phase 230C, 50 cycles

**6. Bending beam apparatus:** Supporting Frame: Aluminum profile and stainless steel angle 1400 mm long, vertical force spring support- 3 no, 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.

**7. Cantilever beam apparatus:**

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

Dial gauge: 02, 0-20 mm range x 0.01 graduated, Weight set; 100 gm to 1 Kg.

**8. Roof Truss Model:** Wooden bench (teak): 90 x 18 cm,

Rafter struts- 021, Length-70 cm

Restraining tie- 01, mounted on a self contained bench top base,

Both struts and tie incorporate linear, direct reading spring balances to measure forces, Loading at the hinged apex by load hanger

One strut hinged support and another should roller support, Set of weights- ½ Kg- 06, 1 Kg- 06

**9. Combined inclined plane and friction slide apparatus:** Wooden plane of a 90x18 cm with frictionless pulley having adjustment for setting the required angle precisely.

Wooden carries cwith different surfaces: wood, glass, copper, plywood

Pan: 01, Weight set: 10-10 gm

**10. Vertical Torsion Apparatus:**

Heavy mild steel frame mounted on a heavy tri-leg cast iron base, Jaw chuck- 3,

Rod: 900 mm length and 5 mm dia, material mild steel

Circular scale with single degree pointer: 3, Pan: 2, Bearing pulley: 2

**11 Law of parallelogram of forces:** Wooden board 65 x 50 cm with two aluminum pulley 50 mm diameter,

04 Clamp for mounting the board

03 hanger iron nickel plated

12 slotted weight of 50 gm each