



# Himachal Pradesh Technical University

(A State Government University)

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HPTU/Environment Science/Lab equipment/2024/01

Date: 23.01.2024

## Short Tender Notice

H.P. Technical University Hamirpur invites bids from eligible firms/ company/ Government agencies for the following:

Sr.No	Tender No.	Nature of Job	Cost of Tender Document	Last date of receiving of bid in University office	Date and Time of Opening	
					Technical Bid	Financial bids of technically qualified bidders
1	01/2024 dated 23-01-24	Supply and set up of Laboratory Equipment's, Chemicals and Glassware/Plastic ware for environmental Science Laboratory in academic block of HPTU.	₹ 500/-	08-02-2024 up to 02:00 PM	08-02-2024 at 2:30 PM	12-02-2024 at 04:00 PM

Tender documents can be downloaded from the official website of the University [www.himtu.ac.in](http://www.himtu.ac.in). The cost of the tender has to be submitted in the form of Demand draft in favour of **Finance Officer, HPTU, Hamirpur, Payable at Hamirpur, H.P.** with tender in a separate envelope along with technical bid. The detail of tender is available on the University website mentioned above.

Tender received after due date, time, without tender cost and without earnest money will be summarily rejected.

-s-d-

Purchase Officer

Himachal Pradesh Technical University,  
Hamirpur.

## **TERMS AND CONDITIONS:**

1. The tender will be opened on 08-02-2024 at 02:30 P M in the presence of intending suppliers/ firms or the authorized representatives.
2. The cost of tender shall be Rs. 500/- ( Non- refundable) in the shape of demand draft from any nationalized bank in favor of **Finance Officer HPTU Hamirpur** payable at Hamirpur which shall be the part of technical bid.
3. The amount of earnest money shall be Rs. 50,000 fifty thousand (Refundable) in the shape of DD/FDR to be pledged in favor of **Finance Officer HPTU Hamirpur**.
4. The tenders received without tender cost and earnest money shall summarily be rejected.
5. The bidder must have GST number and Pan number.
6. The bidder should have **overall turnover of 50 Lakh in last three years**, and CA certified copy required to be enclosed.
7. Bidder will have to submit affidavit/ under taking to the fact that he/his firm is not black listed/debar by any organization, not under Liquidation and no legal irregularities pending against him.
8. It will be imperative on each bidder to fully acquaint himself with all local conditions and factors which would have any effect on the performance of the system. No request for the change of price/ time, schedule of delivery of stores shall be entertained after the purchase on account of any local condition or factor. The bidder should provide declaration for this.
9. **No Gratification Certificate:** the bidder will give an undertaking that they will not try to gratify any person of use any other unfair means involved in the purchase of the quoted equipment. This will also debar the company for participating in other tenders floated or to be floated in by the purchaser and suitable action will be initiated against such defaulter.
10. The bid is valid for the period of minimum of **90 days from the last date of submission of bid**.
11. The bidder should not have sub-contractor after receiving the bid.
12. If any of the material supplied by the bidder is found to be substandard, refurbished, or not in accordance with the description/ specification or otherwise faulty, the committee will have the right to reject the material or its part.
13. In case of any mishappening / damage to material and supplies during the carriage of goods, the supplier has to replace it with new supplies immediately at its own risk. The HPTU, Hamirpur will not be liable to any type of loses in any form.
14. In case the firm fails to supply the material within specified delivery period, the necessary action for blacklisting the firm including forfeiture of security/earnest money may also be taken.
15. The rates should be quoted including GST.
16. The rates quoted by the bidder for each item in Annexures **in financial bid and whichever**

**bidder is lowest, in terms of amount for that Annexures shall be the lowest bidder.**

17. Supply should be F.O.R Himachal Pradesh Technical University, Village Daruhi, Hamirpur.
18. Loading/ unloading shall be the responsibility of the firm.
19. In case of any dispute arising regarding this, the Registrar, Himachal Pradesh Technical university, Hamirpur would act as an Arbitrator and his decision shall be final and binding upon both the parties. Any legal dispute shall be confined to the court of Hamirpur jurisdiction or Himachal Pradesh High Court, Shimla.
20. No payment shall be made in advance nor shall any loan from any bank or financial institution be recommended on the basis of the order of award of work.
21. Whichever firm/company will be granted supply order of material to the university after finalization of the rates of goods, **shall be paid the amount of goods etc. after deduction of taxes/GST etc. as applicable under the Govt. rules/ norms.**
22. The firms /supplier shall submit their bids in two separate envelops, one technical bid and second financial bid. Those who will qualify the technical bid only the financial bid of those qualifying bidder shall be opened.
23. **The Registrar Himachal Pradesh Technical University, Hamirpur** reserves the right to reject any or all the tenders without assigning any reason.
24. Evaluation will be made Annexure wise. Whereas individual items rates will be required to be mentioned against each item but the financial evaluation for each Annexure will be made on the basis of total amount of each Annexure. The work will be awarded to the bidder quoting lowest rate for the annexure.

➔ **Special conditions in case of equipment's/instruments: Annexure – III**

1. Data sheet of the quoted product required to be enclosed.
2. Compliance of specifications as per requirement to be ensured.
- ➔ 3. Performance security @ 10% of the total value of Annexure-III will be required to be deposited by the successful bidder/ Supplier, which will be refunded after 6 months from the date of installation of Equipment's/ Instruments.

**List of Labware- Glassware/Plastic Ware and others****Annexure-I**

S. No	Name	Quantity	Brand/Make	Rate	Amount
1	Conical flask (250ml)	60	Borosilicate		
2	Pasteur pipette	30	Borosilicate		
3	Separating Funnel (250ml)	20	Borosilicate		
4	Separating Funnel (150ml)	20	Borosilicate		
4	Beaker (250ml)	70	Borosilicate		
5	Measuring Cylinder (50ml)	50	Borosilicate		
6	Volumetric flask (250ml)	10	Borosilicate		
7	Volumetric flask (500ml)	5	Borosilicate		
8	Silica crucible	5			
9	Stalгамometer	75	Borosilicate		
10	Screw Pinch Cork for Stalгамometer	75			
11	Rubber Tube for Stalгамometer	For 75 Stalгамometer			
12	Ostwald Viscometer	75	Borosilicate		
13	Rubber Tube for Viscometer	For 75 Viscometer			
14	Specific Gravity Bottle (10 ml)	75	Borosilicate		
15	Petriplate (50-70ml capacity)	20	Borosilicate		
16	Dessicator	2	Borosilicate		
17	Burette (50ml)	72	Borosilicate		
18	Pipette (10ml)	72	Borosilicate		
19	Distillation setup of glassware	5	Borosilicate		
20	Micropipette (10microgram)	2			
21	Glassrods (only made of glass)	75			
22	Porcelain basin	10	China Dish		
23	Water bath	5			
24	Thermometer (upto100 °C)	5			
25	Thermometer (upto 300 °C)	5			
26	Sample Bottles (500 ml, HDPE)	50	HDPE		
27	BOD Bottles (300 ml)	20	Borosilicate		
28	Gloves for Laboratory Use	1 Pkt of 50-100 pieces			
29	Platinum Foil Paper (High Quality)	5 Rolls			
30	Tong for crucible	10	Stainless steel		
31	Spatula	10	Stainless steel		
32	Stand with holder for Stalгамometer and Ostwald viscometer	20	Stainless steel		
33	Burette Stands	10	Stainless steel		
34	Tripod stand	10	Stainless steel		
<b>Total</b>					

**Note\*: The bids shall be evaluated on the basis of Total Amount.**

**List of Chemicals****Annexure-II**

			<b>Brand/Make</b> Merck/HiMedia/SRL	<b>Rate</b>	<b>Amount</b>
<b>S. No.</b>	<b>Name of Chemical</b>	<b>Quantity</b>			
1	Methanol	10 L			
2	Vegetable oil (any)	5L			
3	Sodium Hydroxide (NaOH)	2kg			
4	Potassium Hydroxide (KOH)	2kg			
5	Copper	250g			
6	Sulfuric Acid	2.5L			
7	Nitric Acid	2.5L			
8	Hydrochloric Acid	2.5L			
9	Chloroform (CHCl <sub>3</sub> )	5L			
10	Hydroxyl amine hydrochloride (NH <sub>2</sub> OH.HCl)	1kg			
11	Anhydrous Sodium Fluoride	500g			
12	Sodium Sulphate	500g			
13	Isopropyl Alcohol	2.5L			
14	Glycerol	2.5L			
15	Sodium Chloride	2kg			
16	Barium Chloride	1kg			
17	Phosphoric Acid (H <sub>3</sub> PO <sub>4</sub> )	1kg			
18	Silver Nitrate (AgNO <sub>3</sub> )	500g			
19	Potassium Chromate (K <sub>2</sub> CrO <sub>4</sub> )	1kg			
20	Petroleum Ether	10 L			
21	Ethyl Alcohol	15 L			
22	Acetone	10L			
23	Ashless Filter Paper for Gravimetric Analysis	2 pkts			
24	Simple Filter Paper	2pkts			
25	Tissue paper for cleaning electrodes	2 pkts			
26	Manganese Sulphate (MnSO <sub>4</sub> )	5kg			
27	Sodium Iodide	500g			
28	Potassium Iodide	1kg			
29	Potassium Chloride	1kg			
30	Sodium Azide (NaN <sub>3</sub> )	1kg			
31	Starch	1kg			
32	Sodium Thiosulphate	1kg			
33	Ammonium Chloride (NH <sub>4</sub> Cl)	500g			

34	Magnesium Sulfate	500g			
35	Ferric Chloride	500g			
36	Calcium Chloride	500g			
37	Phosphate Buffer	1L			
38	pH stripes (0-14 scale)	10			
39	Potassium Dichromate	500g			
40	Silver Sulfate	1.5kg			
41	Sulfuric acid	5L			
42	Mercury Sulfate	500g			
43	Ferrion Indicator	200ml			
44	Eriochrome Black-T indicator	100g			
45	Ammonia (liquid)	5L			
46	Methylene blue	1kg			
47	Sodium dihydrogen phosphate (NaH <sub>2</sub> PO <sub>4</sub> .H <sub>2</sub> O)	2.5kg			
48	Methyl orange	200g			
49	phenolphthalein	250ml			
50	Mureoxide indicator	100g			
51	Easygel E Coli medium	20 packets			
52	Household bleaching liquid	2.5L			
54	Hexamethylene Tetramine	500g			
55	Urea	1kg			
56	Formaldehyde	5L			
57	Phenol	1kg			
58	Ammonia (0.88/cm <sup>3</sup> )	5L			
59	Glacial Acetic Acid	5 L			
			<b>Total</b>		

**Note\*: The bids shall be evaluated on the basis of Total Amount.**

## List of Equipment's

Annexure –III

Sr. No	Name of Equipment	Specification	Quantity	Rate	Amount
1.	Double Beam UV-VIS Spectrophotometer	<ul style="list-style-type: none"><li>• Optical system: double beam</li><li>• Wavelength Scanning Range: 190 – 1100 nm</li><li>• Wavelength Accuracy: ± 0.1- 0.2 nm</li><li>• Wavelength repeatability: ± 0.1- 0.2 nm</li><li>• Scanning speed: automatic/ low/medium/fast</li><li>• Spectral Bandwidth: variable (0.1- 5nm)</li><li>• Photometric range: : -4 ~ 4A, 0 ~ 200 %T, 0 ~ 9999C</li><li>• Photometric accuracy: 0- 0.3 A</li><li>• Sample Holder: 5-10 samples and 10 -100 mm Cuvette Holder</li><li>• Sample capacity: samples</li><li>• Light source: tungsten-halogen/ xenon / deuterium</li><li>• Detector: Dual silicon photodiode</li><li>• Stray light: &lt; 0.01%, 220nm, 360nm</li><li>• Baseline Flatness: ± 0.001A/h</li><li>• Noise: ± 0.001A/h</li><li>• Grating: 1200-1800lines/mm</li><li>• Data output: Export data to network or PC via Ethernet or Wi-Fi</li><li>• Print via USB, Ethernet or Wi-Fi</li><li>• Basic Mode, Quantitative, Kinetics, Multi-wavelength, Wavelength Scan, DNA/Protein Test</li></ul>	1		
2.	Muffle Furnance	<ul style="list-style-type: none"><li>• Internal size D x W x H cm 30 x 15 x 15</li><li>• Rating KW 3.5</li><li>• Inner made of ceramic pot outer of MS/CRCA sheet with ceramic wool packing inside and in the door</li><li>• Working Temperature 900-1200°C, maximum temperature 1200°C</li><li>• Temepature controlled with digital temperature controller cum indicator</li></ul>	1		
3	Vacuum pump for distillation unit	<ul style="list-style-type: none"><li>• Vacuum Pump (Oil free) Portable Diaphragm type</li><li>• Motor flow: 45 Ltr/min</li><li>• Max. pressure: 40 PSIG</li><li>• Motor (HP): 1/8</li></ul>	1		
4	Magnetic stirrer with Stirring Bead	<ul style="list-style-type: none"><li>• Capacity: 1- 5 L</li><li>• With: Hot Plate and Magnetic</li></ul>	2		

		bead <ul style="list-style-type: none"> <li>• Temperature: 200-350°C</li> </ul>			
5	Globe	<ul style="list-style-type: none"> <li>• Application: Laboratory</li> <li>• Shape: Sphere</li> <li>• Size: Giant</li> <li>• Color: Blue</li> <li>• Map Type: Physical Map</li> <li>• Material: Fiber</li> <li>• Illuminated</li> <li>• More than 4000 locations</li> <li>• Time dial at North Pole</li> </ul>	5		
6	AWS (Automatic Weather Station)	<p>Compact Data logger should have the facility of the measuring the Temperature, Wind Speed, Wind Direction, Barometric Pressure, Relative Humidity, Dew Point, Solar Radiation and Rainfall for the collection of real time data automatically.</p> <p><b>Sensors Required:</b> Temperature, Humidity, Rainfall, Wind Speed, Wind Direction, Solar Radiation, Air Pressure</p> <ul style="list-style-type: none"> <li>• <b>Data Logger:</b> Date, Time, Air Temp. (°C), Max Air Temp.(°C), Min Air Temp. (°C), RH (%), Max RH (%), Min RH (%), Wind Speed (m/s), Maximum wind speed (m/s), average wind speed (m/s), Wind Direction (Deg), Rainfall (mm), Dew Point (°C), Solar Radiation (watt/m), Barometer (hPa), Battery (volts). Data Storage : 16 GB</li> <li>• <b>Sensors:</b> Temperature measuring range: -40° C to 123 ° C Humidity measuring range: 0 to 100 %</li> </ul> <p><b>Wind Speed and Direction:</b></p> <ul style="list-style-type: none"> <li>• Wind Direction Measuring range 0 ° to 360 °</li> </ul> <p><b>Rain Gauge:</b></p> <ul style="list-style-type: none"> <li>• Type: Tipping Bucket</li> <li>• Measuring Intensity: ~500 mm/hours</li> <li>• Accuracy: 100 mm/hours</li> <li>• Capacity: Unlimited</li> </ul> <p><b>Solar Radiation:</b></p> <ul style="list-style-type: none"> <li>• Measuring Range: 0-1800 w/m<sup>2</sup></li> </ul> <p>Tripod Stand of Steel or Aluminum up to 3 Mtrs. Mounting height. Solar Pannel and Battery an intelligent solar and AC power circuit make the system self-powered.</p>	1		



7	Rain Gauge	<p>Ordinary/Manual (made of Brass and Iron)</p> <ul style="list-style-type: none"> <li>• Diameter: 150-160 mm</li> <li>• Capacity: 200 mm of Rainfall</li> <li>• Collection Area: 200 CM<sup>2</sup></li> <li>• Material: Non-corrosive fiberglass (Borosilicate)</li> <li>• Standard: As per IS 5225:1992</li> </ul>	1		
8	Refrigerator	<ul style="list-style-type: none"> <li>• 285-290 Ltr.</li> <li>• Double Door</li> </ul>	1		
9	<b>Combined or separate:</b> pH, Electrical Conductivity and TDS Meter for water	<ul style="list-style-type: none"> <li>• <b>pH:</b> Range: 0-14 pH Operating Temperature range: 0 - 100°C</li> <li>• <b>Conductivity:</b> Range: 0-200 m Mhos/cm or &gt;200 m Mhos/cm Temperature compensation: 0 - 100°C manual</li> <li>• <b>TDS:</b> <b>Range:</b> upto 1000-2000 ppm/ppt or &gt; 2000 ppm/ppt Temperature compensation: 0 - 100°C manual</li> </ul>	1		
10	Wet & Dry Bulb Thermometer	<ul style="list-style-type: none"> <li>• Measuring Range : 0~50 C/30~120°F</li> <li>• Resolution : 1°C/1°F</li> <li>• Accuracy : ±1°C/2°F</li> </ul>	1		
11	Nephelometric Turbidimeter	<ul style="list-style-type: none"> <li>• Range 0-2000 NTU</li> <li>• Resolution 0.01NTU</li> <li>• Spectral peak response between ≈ 290-900nm</li> <li>• TSS accuracy: ± 1-3% of reading</li> <li>• Sample vials: 60(H) × 25 (Dia) mm</li> <li>• Memory ≥ 200 data sets</li> </ul>	1		
12	COD Digesting unit	<ul style="list-style-type: none"> <li>• Capacity- for sample - 20-50ml</li> <li>• Temperature range - 200-250°C</li> <li>• No of cavities to accommodate Sample holder - 6-15</li> <li>Accessories inclusive - Glass tubes, air condensers, tube stand, condenser stand,</li> </ul>			
			<b>Total</b>		

**Note\*:** The bids shall be evaluated on the basis of Total Amount.