

ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਜਲੰਧਰ, ਕਪੂਰਥਲਾ I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY JALANDHAR, KAPURTHALA **Department of Physics**

For Website rictored (Speed Doct/Email

Ref. No. 9KGP TU 1841 2.16 By Registered	Speed Post/Email Dated ! 8 7 20
M/S	
•••••	
Subject: Quotations for Statistical Mechanics Campus	Physics Lab equipment/setups at IKGPTU, Main
Dear Sir/Madam,	
University intends to purchase the	

University intends to purchase the equipment/setups for the Statistical Mechanics Physics Lab for B.Sc. (Hons.) in Department of Physics by inviting sealed quotations. The supply order will be placed to the firm offering the lowest rates equipment/setup wise. Therefore, you are requested to send the sealed quotation of the equipment/setups by quoting lowest rates (inclusive of all taxes, govt levied duties, etc.) through registered/speed post or by hand. Please subscribe on envelope "Quotation for procurement of setups for Statistical Mechanics PhysicsLab in Department of Physics" and to be opened by committee only. Quotation must reach in the office of Head of Department, Department of Physics, CB-III, I.K. Gujral Punjab Technical University, Jalandhar - Kapurthala Highway, VPO-Ibban, Kapurthala-144603, up to 3:00 P.M. on July 23, 2024. Quotation will be opened in the office of Head of Department, Department of Physics at 4.00 P.M. on the same day. The vendors or their representatives may be present at the time of opening of the quotations. If Government of Punjab/IKGPTU declares holiday on July 23, 2024, quotations will be opened on the next working day. Technical Specification of the scientific items/equipments are as per attached herewith.

Terms and Conditions:

- 1. Bidder is at liberty to quote rates of one or more setup(s)/item(s)/make(s) etc. There is no compulsion to quote the rates of all setup(s)/item(s)/make(s), etc.
- 2. The firm having GST number need only apply
- 3. Any quotations other than the specifications mentioned will not be considered.
- 4. Bidder should quote the rates inclusive of two years comprehensive warranty.
- 5. University reserves the right to buy/not to buy/increase/decrease any of the setup(s) quantity.
- 6. The items are to be delivered at Department of Physics, AB-III, I.K. Gujral Punjab Technical University, Jalandhar - Kapurthala Highway, VPO - Ibban, Kapurthala, within 28 days of issuance of the supply order.
- 7. No advance payment will be made.
- 8. University will not be paying anything extra as the quotations invited are inclusive of all taxes/Govt. levied duties/transportation charges etc. 4 00 P.14, on the same
- 9. The payment will be released only after the receipt of satisfactory report from the Department of Physics in terms of successful installation and demonstration of supplied equipment from the vendors.

Head

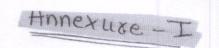
Department of Physics

Mail id: physicalsciences@ptu.ac.in

"Propelling Punjab to a prosperous Knowledge Society"

I.K. Gujral Punjab Technical University

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I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY JALANDHAR, KAPURTHALA Department of Physics (Main Campus)

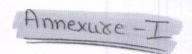
Subject: - Requirement of Equipments in B.Sc. (Hons) labs in the Department of Physics Main Campus.



Hnnexuse - I

	sugar solution. Exp-1 To observe the rotation of the plane of polarization of monochromatic light by sugar solution for determining the concentration of solution of optically active substance	glass: 4 times Monochromatic light source: 5893A Power line voltage: 220V, 50 Hz Working current: 1.3A Discharging power: 20W Stabilization time(approx.): 5 minutes			
3	Exp:- To analyze elliptically polarized light by means of Babinet's compensator.	Contents: White light source (Lamp) Quarter wave plate Polarizer Analyzer Eye piece Sodium lamp (optional)	35,000	01	35,000
4	velocity of ultrasonic To determine the wavelength and velocity of ultrasonic waves in a liquid (Kerosene Oil, Xylene, etc.) by studying the diffraction through ultrasonic grating.	Ultrasonic Interferometer: Quartz Crystal: Diameter: 20mm Thickness: 1.4mm Frequency: 2MHz Liquid Cell: Optimum Quantity of Liquid: 12cc Max. Displacement of the Reflector: 25mm Least Count of Micrometer: 0.01mm Display: Digital & Analog Distance Measurement: Ultrasonic Transducer: 28cm to 1.0m (approximately) Clock Generator: 40 kHz Amplifier: 60dB Threshold Detector: 0 to 9V DC Buzzer Indicator: 1.5 - 15V DC Power Supply: 230V +10%, 50 Hz Fuse: 500mA	15,000	01	15,000
		Scope of Supply Stefan's apparatus Thermometers Sensitive galvanometer Silver-constantan thermocouple Beaker 600ml Steam generator	37,000	01	37,000
тей (паваней) выпадад зван орбору «Сев» у денежну парадей (Сельгей) выпада з завень «Алада»	VI CHARACTERISTICS Experiments: Exp:-1 To determine Boltzmann	Plug in board Diode module IN 4007 Resistance module 100 Ohm, 2W Variable resistance module 1KQ (0-36000) Connecting leads Red & Black .=50cm 5 pair	13,000	01	13,000

DW



7	characteristics of P-N junction diode	Digital Voltmeter 19.99 V DC Digital Ammeter 19.99 mV DC Power supply 5V DC Acrylic sheet with clip			
	WOLLASTON AIR FILM Exp. To determine the refractive index of liquid by total internal reflection using Wollaston's airfilm.	Specially designed spectrometer with attachment to hold air film, Air film attachment with stand, Experiment liquid, Container for air film (Rectangular glass container)	12,000	01	12,000
8		Dipole antenna (with stand) receiving antenna RF generator , current receiver	41,000	01	41,000

Total Amount:- Approx. 3.05 Lakhs

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