



TERMS AND CONDITIONS

[All pages (BoQs & Terms & Conditions) are mandatory to be signed/stamped, Rates should be quoted on our prescribed format, failing which the bid may be rejected]

1. The contract will be executed and handed over in satisfactory conditions up to the entire satisfaction of COMSATS Institute of Information Technology, Lahore Campus.
2. Documents along with Pay Order / Demand Draft amounting **Rs. 1,000/-** as a tender documents fee (Non-Refundable) in favor of COMSATS Institute of Information Technology, Lahore to the address given below. No bid will be accepted without tender documents' fee
3. Part / Advance payments is not allowed.
4. The exact completion/delivery time from the date of the purchase / work order will be **120 days**. The handing over / completion time for this contract is of critical importance.
5. The bid proposal should be inclusive of all freight and packaging charges and will be delivered at Lahore Airport.
6. **The payment will be made in Pak Rupees to the Local Vendor/Supplier against the conversion rate of actual GD-1(Conversion Rate) as per following formula.**

Foreign Currency (as per PO) x Conversion rate of GD-1 = Total Amount in Pak Rupees

7. **Shipment will be cleared by COMSATS Lahore Campus from Custom Authorities.**
8. Any addition, deletion or modification of any clause of the procurement terms & conditions of CIIT by any vendor will not be acceptable and may lead to rejection of the bid.
9. COMSATS Institute of Information Technology, Lahore Campus, will follow the PPRA rule of **single stage two envelope procedure**;
 - i. The bid shall comprise a single package containing **two separate envelopes**. Each envelope shall contain separately the **financial proposal** and the **technical proposal**;
 - ii. The envelopes shall be marked as **"FINANCIAL PROPOSAL"** and **"TECHNICAL PROPOSAL"** in bold and legible letters to avoid confusion;
 - iii. Initially, only the envelope marked **"TECHNICAL PROPOSAL"** shall be opened;
 - iv. The envelope marked as **"FINANCIAL PROPOSAL"** shall be retained in the custody of the procuring agency without being opened;
 - v. The procuring agency shall evaluate the technical proposal in a manner prescribed in advance, without reference to the price and reject any proposal which does not conform to the specified requirements;

- vi. During the technical evaluation no **amendments** in the technical proposal shall be permitted;
 - vii. The financial proposals of bids shall be opened publicly at a time, date and venue announced and communicated to the bidders in advance;
 - viii. After the evaluation and approval of the technical proposal the procuring agency, shall at a time within the bid validity period, publicly open the financial proposals of the technically accepted bids only. The financial proposal of bids found technically nonresponsive shall be returned un-opened to the respective bidders;
 - ix. and
 - x. The bid found to be the lowest evaluated bid shall be accepted.
10. Bidders who do not qualify cannot challenge the finding of the evaluation.
 11. The bids should be submitted in a sealed envelope up to **12-01-2015** on or before **14:30 hrs** and will be opened on the same date **at 15:00 hrs** in the presence of available bidders.
 12. The envelope should be marked as under.

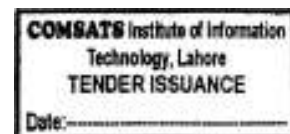
Manager Purchase
COMSATS Institute of Information Technology, Lahore Campus.
Defence Road, Off Raiwind Road, Lahore.
Tel: 042-111-001-007, Ext: 875
 13. The envelope shall also bear the word **“CONFIDENTIAL”** and following identification quotation of **“Lab Equipment for Physics Department”**.
 14. The bid form (Annex-I) must be duly filled in, stamped and signed by the authorized representative of the bidder.
 15. If the vendors fail to deliver the order in time then the vendor will be charged penalty as under:-
 - a. 1% per day of the invoice price for 5 working days.
 - b. 2% per day of the invoice price for further 5 working days.
 - c. If the vendor fail to deliver the items during the extended then the supply order may be cancelled, earnest money and payment may be forfeited.
 16. All prices should be quoted in **C&F with all freight charges (Item wise)**.
 17. All prices should be valid for at least **120 days**. Withdrawal or any modification of the original offer within the validity period shall entitle CIIT to forfeit the earnest money in favor of the CIIT and / or put a ban on such vendor participation in CIIT tenders / works.
 18. It is the sole responsibility of the agent / supplier / manufacturer to comply with the applicable laws, be national or international.
 19. In case of any dispute, decision of the Director CIIT-Lahore, will be final and binding upon the parties.
 20. The CIIT-Lahore reserves the right to modify equipment specifications/quantities at any time before the award of work.

21. The bidder is required to furnish in form of Bank deposit /C.D.R / Pay order equivalent to **2%** of the total Bid price as Earnest Money crossed in favor of "COMSATS Institute of Information Technology, Lahore Campus". Any bid not accompanied by Earnest Money shall be rejected without any right of appeal.
22. Warranty will be on the part of supplier, which is **One Year Warranty** after the completion of supply /work.
23. **05%** of the total value of the Invoice will be retained for **One Year** as security by COMSATS Institute of Information Technology, Lahore Campus, and will be released after the completion of warranty period, which will start from the date of completion of work
24. COMSATS Institute of Information Technology, Lahore Campus, reserves the rights to accept or reject any or all bids without assigning any reason whatsoever.
No offer of a supplier/firm will be considered if: -
 - i. Received without earnest money
 - ii. Received later than the date and time fixed for tender submission
 - iii. The tender is unsigned/ unstamped
 - iv. The offer is ambiguous
 - v. The offer is conditional
 - vi. The offer is from a firm, which is black listed, by any Govt. Office.
 - vii. The offer is received by telephone/telex/fax.
 - viii. Any unsigned / ambiguous erasing, cutting / overwriting etc. is made.
25. The tendered should furnish a certificate as worded below in token of acceptance of all the terms and conditions of the tender. Otherwise the tender will not be considered under any circumstances.

I / We

- Company / Vendor Name:.....
- Postal Address:.....
- Tel. / Mobile:.....Email:.....
- NTN # :.....GST#:.....

the undersigned certify that the terms and conditions as contained in the documents vise, " Terms and Conditions for Tender Notice of COMSATS Institute of Information Technology, Lahore are accepted and that in the event of selection of my/our rate the agreement in the prescribed form will be entered into.



BoQs of Lab Equipment for Physics Department , CIIT Lahore

Sr .#	Item Name	Specification	Qty		Rates to be quoted in C&F Lahore with all freight charges at Lahore Airport			
					Quoted Model/Make	Quoted Currency	Unit Price(C&F Lahore Airport)	Total Price (C&F Lahore Airport)
1	Spin Coater	Maximum spin speed: 12k RPM Ramp: up to 13,000 RPM/s in 1 RPM increments Time: 1s to 99 minutes 59.9 s in 0.1s increments Maximum substrate size that will fit in bowl: 6 ² (~150 mm) wafer in diameter or 5 ² (~125 mm) square substrate Recipe storage: twenty 51-step programs Vacuum chuck: 1.75 ² (~45 mm) in diameter for 2 ² (~50 mm) through 6 ² (~150 mm) in diameter substrates Fragment chuck adapter: for holding ~3 mm through 15 mm pieces Fragment chuck adapter: for holding ~5 mm through 25 mm pieces Fragment chuck adapter: for holding 10 mm through ~50 mm pieces Microscope slide adapter: for holding 1 ² x 3 ² or 25 mm x 75 mm USP with battereis and stablizer	01	No				
2	Impedance Analyzer	Impedance (EIS): Mode: Potentiostat & Galvanostatic with dummy cell, Frequency Range: 10μHz~10MHz, Min AC Voltage Amplitude, 0.1mV RMS, Single unit Data Acquisition 3 x 18 bit 1M samples per second ADCs synchronized voltage/current/auxiliary, Time Base Resolution (min) 1μs (1M samples/second) Potentiostat Bandwidth;3.75MHz, 2mA range, Slew Rate:>25V per μs typical without load, Rise Time: (-1.0V to +1.0V)<100 ns (no load), Voltage Control (potentiostat mode) In potentiostat mode: Applied Voltage Range: ±10V, Applied Voltage Resolution: for ±10mV signal = 300nV, for 100mV signal = 3μV, for ±1V signal = 30μV, Applied Voltage Accuracy:±0.2% of value ±2mV, Maximum Scan Rate, 10 kVs-1 (10 mV step) Galvanostat mode: Applied Current	01	Nos				

		<p>Range: $\pm 4A$, Applied Current Resolution, $\pm 1/32,000$ x full scale, Applied Current Accuracy: $\pm 0.2\%$ Max. Current Range/Resolution: $\pm 4A / 123\mu A$, Min. Current Range/Resolution: $\pm 40pA / 1.2fA$, Electrometer: Max. Input Range: $\pm 10V$, Bandwidth: $\geq 10MHz$ (3dB), Input Impedance: $\geq 1013 \Omega$ in parallel with $\leq 2pF$, Leakage Current: $\leq 2pA$ at less than $25^\circ C$. Voltage and Current measurements : Current Ranges: ranging $20A \sim 40pA$, Current Resolution: $1.2fA$ ($40pA$ range), Voltage Range $\pm 10V$, Voltage Resolution: $1.5\mu V$ Others parameters required: Laptop with SIMPWIN licence software, compatible & Imported UPS and stabilizer, Make origin USA or equivalent: compatible Fume hood for Impedance analyzer placement(local/imported)</p>					
3	AC to DC conversion	ELECTRONIC trainer, Set of accessories for Electronic Board, Sturdy plastic case for mounting in of Electronic Board and storage board. Set of Accessories	03	Nos			
4	Acceptor/rejector circuits	Electronics Trainer complete package e.g. AC/DC BOARD with jacks field, connecting plugs, 4 mm/19 mm, 2 connecting leads, 4 mm, 60 cm, 6 connecting leads, 4 mm, 30 cm, Sturdy plastic case for trainer and storage board	02	Nos			
5	555 Timer and 567 PLL tone decoder circuits	BASICS OF ELECTRICAL ENGINEERING 5V SUPPLY BOARD Power supply unit, DC, +5 V, 1.5 A (max.), PLL (phase locked loop), 2,00 pcs 9102.2-YE, Connecting lead, 4 mm, 60 cm, yellow	02	Nos			
6	Operational amplifier-differentiator and integrator	ANALOG BOARD, Set of connections for ANALOG BOARD, 6 connecting leads, 2 mm, 7.5 cm, 7 connecting leads, 2 mm, 20 cm, 7 connecting leads, 2 mm, 30 cm, 20 connecting plugs, 2 mm/5 mm,	02	Nos			
7	Diode as rectifier	Set of connections for ANALOG BOARD 6 connecting leads, 2 mm, 7.5 cm, Filament lamps 12V/0.1A, E10, 10, Semiconduct diode/si/1 N 4007, G1, Connecting cord, 15A, 25cm, red, Connecting cord	05	Nos			
8	Transistor as an amplifier and switch	Filament lamps 4V/0.04A, E10, 10, resistor 47 kOhm, 1W, G1, Potentiometer 10kOhm, case G1, Electrical capacitor, Filament lamps 4V/0.04A, E10, 10, Resistors capacitor transistor bundle,	03	Nos			

9	Conversion of galvanometer into ammeter and voltmeter	Experiment kit, Galvanometer, Ammeter, Voltmeter, Power supply 0-12V DC/6V, 12V AC, Resistance Boxes, two way key, rehostate	05	Nos				
10	Kirchoff's law	Experiment kit. Resistance board, metal, Slide wire meas. bridge, simple, Power supply, 5V/1A, +/- 15V, Connecting cord, Resistance, capacitor bundle.	04	Nos				
11	Verification of gas law's	Gas laws apparatus, thermostat TC10, Bath, Makrolon, weather monitor, thermometer, mercury tray, Weather monitor, 6 lines LCD, Hose clip, d= 8-12mm, Water, distilled = 5 l, Mercury, filtered = 1000 g	02	Nos				
12	Measuring vapor pressure	High pressure vapour unit, Heat conducting paste, heating apparatus, pipette, supports, Heat conductive paste, 50 g, Support rod, stainless steel	01	No				
13	Compton Effect	Multi channel Analyzer, Radioactive source, Am-241, Source, Cs-137, Gamma detector, Operating unit gamma detector, screen cylinder, Radioactive source, Na-22, 74kBq, Rod, iron, d 25 mm, l 200 mm, Lead block, 200x100x50 mm, Screened cable, BNC, l 750 mm, Data c	01	No				
14	Electrical conduction in solids	<p>1. AC/DC Current Source</p> <ul style="list-style-type: none"> • Current Range: 2nA-100mA • Resolution: 100fA • Frequency Range: 1mHz to 100kHz • WAVEFORMS: Sine, Square, Ramp, and User Defined Arbitrary Waveforms. • PULSE MEASUREMENTS: Pulse widths 50µs to 12ms, 1pA to 100mA. <p>2. Nano Voltmeter Dual Channel</p> <ul style="list-style-type: none"> • Channel 1: Voltage Range 10mV-100V • Channel 2: Voltage Range 100mV-10V • Resolution: 1nV 	01	No				

15	Microwave experiments	<p>Multip-function analyzer (frequency response, impedance analysis, network) frequency 1Hz to 40/50MHz Impedance adapter Pair of active differential probes Associated Software for simulations Current probe upto 30MHz</p>	01	No				
		<p>High frequency dielectric probe for VNA. Coaxial calibration kit with transmission reflection setup & software.</p>	01	No				
		<p>Accessories Bias Tee 0.1MHz to 50GHz Low noise amplifier 0.1~50GHz DC block 50GHz Fixed attenuator 50GHz 3dB, 10dB, 20dB Logperiodic antenna (pair) 300~2000MHz, VSWR 2:1, Nominal Gain 5dBi Horn antenna 2~18GHz, VSWR 1:1.5 Nominal gain 9dBi Horn antennas (pair) covering frequency 18~50GHz, VSWR:1.25:1, Gain >20dB</p>	01	No				
16	Calibration Unit for VNA	<p>WG complete calibration kit for WR-90, WR-62, WR-42, WR-28 and WR-22 bands, WR 137, WR-187 including pair of Coax to WG adaptors, length spacer, termination 2.4mm adapter kit (2.4mm to 3.5, 2.92, N, BNC etc M & F adapter pairs), low loss, gold/berillium coated</p>	01	No				
17	IV characterization of solar cells	<p>Solar battery, 4 cells, 2.5x5 cm, Thermopile, Moll type, Universal Measuring amplifier, Hot/cold air blower 1700W, Digital multimeter, This setup should include 100 Watt PEM fuel cell with a rated power 12V @ 8.3A and Max stack temperature 70 oC, more than 40 % at 12 V</p>	01	No				
18	Electron spin resonance (ESR)	<p>pulsed CW ESR & NMR with all accessories. Resonator with field coils, Power supply, electromagnet, Connecting cord and cables</p>	01	No				
19	Normal Zeeman effect	<p>Normal Zeeman effect complete experiment kit</p>	01	No				

20	Microwave power meter with sensor	50GHz power meter; 50GHz power sensor; Level range -67 dBm to +45 dBm 3GHZ E&H near field sensor CISPR upot 3GHZ	01	No				
21	Gas Cylinders for AR, N2, H2, O2	Hydrogen Gas generator with flow rate 0~30 liter/hour. H2 purity 99.999% with delivery pressure 0.1~10bar. Physical dimension 23x43x36 cm. With LCD display and compatible software	01	No				
22	To study laws of light using laser and laser kit	Fiber Optic Communication 850 nm ST connectorised LED transmitter with driver and modulation signal input 790 nm ST connectorised laser diode transmitter with adjustable drive current and modulation signal input ST connectorised Si photodiode receiver with detected power displayed on an integral panel meter, 1 km reel of ST connectorised graded index multi-mode optical fibre 2 km reel of ST connectorised graded index multi-mode optical fibre. A waveform generator which can be switched between a 4 MHz square wave pulse generator and a variable frequency (1 to 25 MHz) sine wave generator. All related accessories	01	No				
		Optical waveguide 633nm Laser Diode with integral drive electronics and supply holder and 6V power supply Remotely mounted Si detector head with battery powered bench top receiver unit displaying detected power on an integral panel meter. Linear Translation Stage Z axis translation stage Rotation stage with vernier scale and 1 arc/min micrometer Graduated table and indicator arm Spacer for graduated table, Right Angle Post Clamp Post Collars, 95mm posts Spring Clamp M6 Allen Key, High index prism coupling assembly, Glass Semi-Cylindrical Element with mounting plate Polariser, Mounted DCX Lens Multimode and singlemode step index planar waveguides, single & multimode graded index planar waveguides, Related accessories	01	No				

23	Polarizatin of light	1mW 633nm Laser Diode with integral drive electronics, holder and 6V power supply Remotely mounted Si detector head with battery powered bench top receiver unit displaying detected power on an integral panel meter. 470mm Optical Rail with supports 25mm Carriers with Post Holders Graduated Rotating Polariser Mount Post Collars 95mm posts Allen Keys 25mm Polariser / Analyser Plate Clamp Perspex Sheet Half Waveplate Quarter Waveplates Arbitrary Waveplate	01	No				
----	---------------------------------	--	----	----	--	--	--	--

- **Price should be quoted of every single item inclusive of all freight charges on the attached BoQs form only. Do not use your own company letter head; otherwise your bid may be rejected.**
- **Quoted currency should be mentioned in given column.**

