



ISLAMIC UNIVERSITY OF SCIENCE & TECHNOLOGY AWANTIPORA, KASHMIR

SHORT TERM TENDER NOTICE

For and on behalf of Vice Chancellor Islamic University of Science and Technology (IUST), Awantipora, sealed tenders affixed with revenue stamp of Rs. 5/- in two bid system are invited from the reputed manufacturers/authorized dealers for supply, installation and testing of various laboratory/scientific equipments as mentioned in the Annexure–A of this tender for the Department of Electronics & Communication Engineering. The detailed tender document can be obtained from the office of **Procurement & Stores** or can be downloaded from the University website: www.islamicuniversity.edu.in against DD of **Rs. 500/-** (non-refundable) favouring Islamic University of Science and Technology, Awantipora Pulwama (J&K) as cost of the tender document and to be submitted by or before **23-03-2018 (upto 02.00 pm)**. Terms and Conditions apply.

Sd/-
Member Secretary
(Central Purchase Committee)

No. IUST/Reg/P&S/Tender/18/189

Dated:12-03-2018

GENERAL TERMS & CONDITIONS

The Bidders are expected to go through all instructions, terms & condition as specified in the bidding document. Failure to furnish complete required information or submission of a bid with incomplete information may result in rejection of the bid.

1. The tender duly completed and signed shall be submitted in a two sealed envelopes. Envelope A (Technical Bid) and Envelope B (Financial Bid).
2. The Technical Bid (Envelope- A) would be opened first and the tenders found eligible will go for opening of Financial Bid (Envelope-B) on the same day or the day as decided by the CPC. The Financial Bid (Envelope-B) of in-eligible bidders will not be opened.
3. The supply, transportation etc. of the items will be sole responsibility and at the risk of the firm till the acceptance by the University.
4. All the items and other accessories supplies made under this tender notice will be inspected by a Committee specially constituted for the purpose and in case the Committee is of the opinion that the supplies are not of the required specifications, the supplies shall be rejected and responsibility of lifting back the supplies will devolve on the supplier. Besides, in such event, the EMD shall stand forfeited and the extra cost incurred in arranging the supply from the alternative sources shall also be recovered from the defaulting supplier apart from initiating the proceedings for blacklisting.
5. The University reserves the right to reject or accept any Proposal without assigning any reason or cancel or withdraw the tender. The University reserves the right to relax any condition enumerated or arising out of this tender, without assigning any reason/s thereof. If the supply of the required items are not affected before the specified period, the University shall have the authority to cancel the order or to take any action deemed fit in the circumstances.
6. The EMD may be forfeited:
 - (a) If a Bidder withdraws its bid during the period of bid validity.
 - (b) If at any stage it is proven that the information given by the bidder is incorrect.
 - (c) In case of a successful Bidder, if the Bidder fails:
 - to execute the supply within the stipulated time.
 - if the items are not as per the specifications.
7. The University may, for any reason, whether suo-moto or in response to a clarification requested by a prospective bidder, modify the bidding documents by an amendment, any time prior to the last date for submission of bids.
8. Tenders received after due date, improperly sealed, or with incomplete marking or with overwriting/corrections are liable to be rejected.
9. During evaluation of bids, the University may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in prices or substance of the bid shall be sought, offered or permitted.

I/We hereby declare that the information furnished in the tender is true and correct and also I/We have gone through the terms and conditions stipulated in the Tender Document and confirm to abide by the same. In case the information provided is found incorrect at any stage, the University may take appropriate action as warranted.

Name and sign of the authorized person of the firm along with seal

Place:

Date:

TENDER DOCUMENT

(Envelope- A (Technical Bid) It should contain the following:

- a. Authorization /dealership/manufacturer certificate.
- b. GST Registration.
- c. Bidders Profile **Annexure-B**.
- d. Technical specification/ literature for the goods/equipment **Annexure-C**.
- e. Warranty Certificate **Annexure-D**.
- f. Bid security @ 2% in the shape of FDR of any nationalised Bank drawn in favour of “Islamic University of Science and Technology”, payable at Awantipora, Pulwama (J&K) and tender document fee Rs. 500/- (non refundable) in the form of DD, in favour of Islamic University of Science &Technology.
- g. Certificate of service support after sale wherever necessary.
- h. Proof of legal status.

(Envelope-B (Financial Bid) It should contain the following:

- a. Bid prices shall be in Indian Rupees (**Annexure-E**).
- b. The rates shall be quoted FOR IUST Stores, Awantipora including transportation, installation/commissioning/fixing excluding GST.
- c. Bid price should be without over writing; however minor over writing should be clearly signed by the bidder. In case of any discrepancy between price quoted in figures and words, the price quoted in words shall be accepted.
- d. The rates should be covered with transparent tape.

Validity of Bids

- a. Bids shall remain valid at least for 90 days from the date of opening.

Evolution of Bids

- a. IUST shall evaluate and compare the bids which are found substantially Responsive. i.e which are
 - (i) Properly signed.
 - (ii) Conform to terms and conditions and technical specifications.
 - (iii) Accompanied with Bid security and all other documents.
 - (iv) Bids shall be evaluated separately for each item.

Award of contract

- a. Contract shall be awarded to the bidder whose bid is commercially, technically responsive and offered at lowest evaluated price.
- b. Successful bidder shall be informed about the award of the contract where in terms and conditions of supply shall be incorporated.

Payment

- a. 100% payment shall be made against delivery of items, successful verification/inspection of items by the University Verification Committee.

Warranty

- a. All items shall carry comprehensive standard warranty of one year (Annexure-E).

Settlement of disputes

a. Settlement of any dispute will be made under the jurisdiction of Srinagar court only.

Submission of Bids

- (a) The tender duly completed and signed shall be submitted in sealed envelopes. The two envelopes Envelope A (Technical Bid) and Envelope B (Financial Bid) should be kept in separate one envelope. The sealed cover upper-scribed “**Short term Tender notice for supply of Lab Equipments for Department of E&CE**” shall be addressed to the **Member Secretary Central Purchase Committee** Islamic University of Science and Technology, Awantipora Pulwama and shall be submitted on or before 23-03-2018 (upto 02.00 pm.)

Bid opening

- (a) The Technical Bid (Envelope- A) would be opened first and the tenders found eligible will go for opening of Financial Bid (Envelope-B) on the same day or the day as decided by the CPC. The Financial Bid (Envelope-B) of in-eligible bidders will not be opened.
- (b) Interested bidders can attend the bid opening occasion.

ANNEXURE-A
SCHEDULE OF REQUIREMENTS

S.No.	Items	Specifications	Qty	Delivery Period
1.	Modem Trainer	<ul style="list-style-type: none"> • Z- 80 based microprocessor • Memory: 32k ram • EPROM: 32k • Baud rate: 300bps/1200bps • Display: 20 * 4 LCD with backlight • Key board: matrix type • Serial Communication software for PC to PC communication • Modulation: built in FSK modulation & demodulation • Configurable baud rate facility 8k • Extras: RS232C, power supplies and required software in adequate numbers 	5	45 Days
2.	QPSK Trainer (Offset & Differential both)	<ul style="list-style-type: none"> • Date Pattern: Upto 64 bit • Frequency: Upto 16 KHz • Carrier Signal: Sine, Cosine • Crystal Frequency: 8 MHz • Patch Cord & Power Supply in adequate numbers as accessories 	5	
3.	Bluetooth Trainer	<ul style="list-style-type: none"> ○ Integrated 2.4GHz, IEEE 802.15 transceiver ○ Frequency Range: 2402MHz – 2480MHz ○ Transmit Power: +18dBm ○ RF Data Rate: 250kbps ○ On Board Temperature Sensor & Variable Voltage Source for ADC ○ On board Relay, LED & Switch output ○ On board audio coder ○ Power Supply: 5VDC, 0.5A ○ OS Support: XP/Vista/Windows7 ○ Integrated Chip Antenna ○ Interfacing facility for PC 	3	
4.	GSM Trainer	<ul style="list-style-type: none"> • GSM capability: 850/900/1800/1900, EGSM • GSM data services: Asynchronous, Transparent, Non Transparent modes at 14.4 Kbits/s • SIM interface: 3V • Receiver: <ul style="list-style-type: none"> ○ EGSM sensitivity: < -104 dBm ○ DCS sensitivity: < -102 dBm ○ Selectivity at 200 KHz: > 9 dBc ○ Selectivity at 400 KHz: > 41 dBc ○ Dynamic Range: 63 dB ○ Inter modulation: >-43 dBm ○ C-channel rejection: > 9 dBc • Transmitter max. output power: <ul style="list-style-type: none"> ○ EGSM: 33 dBm ○ DCS: 30 dBm • Transmitter min. output power: <ul style="list-style-type: none"> ○ EGSM: 5 dBm ○ DCS: 0 dBm • Phase error at peak power: < 5° RMS 	2	

5.	CDMA Trainer (FHSS & DSSS)	<ul style="list-style-type: none"> • Data Rate: Upto 16 kbps • Word length: 8 bits • Data format: NRZ • Chip clock: Upto 240 KHZ for DSSS Upto 16 KHz for FHSS • Sequence Type: Max. Length • Selectable sequence pattern • BFSK frequencies: 100 KHz for mark & 50 KHz for space • Frequency synthesizer frequency: Upto 1.6 MHz • Four hopping channels • 36 data points 	4	
6.	GPRS Trainer	<ul style="list-style-type: none"> • GSM 850 / 900 / 1800 / 1900 MHz, 3GPP support • GPRS Class 10, CS1-CS4 - up to 85.6 kb/s • Embedded Protocols TCP/IP, UDP/IP, HTTP/FTP • On board regulator MIC5209, 3.3V • USB to RS232 converter: FT232RL • OS Support: XP/Vista/WIN7 • On board Dipole Antenna connector 	1	
7.	PCB Prototype Design Machine	<ul style="list-style-type: none"> • Working Area of not more than 320 x 230 mm • Resolution: 0.5 um • Max. travel speed: 60 mm/s • Min. trace width: 4 mil • Max. working speed: 30 mm/s • Drilling: 0.2 – 3.175 mm • Drilling Performance: 120 strokes/min • Automatic tool change • Software controlled spindle speed 	1	
8.	Multifunction Laser Printer	<ul style="list-style-type: none"> • Print, Copy, Scan • Print Speed upto 20 ppm (Black, A4) • Desirable: Copier Reduce/Enlarge: 25 to 400% • Duty Cycle: upto 8000 pages per month • RMPV: 250 to 2000 pages • 128 MB RAM • Scanner Type: Flatbed • Warranty: Min. 12 months 	6	
9.	Power Supply	<ul style="list-style-type: none"> • Three floating, independent DC supply voltages • DC Outputs 0 -30 V/ 2 A, 5 V/ 2 A & 0 ± 15 V Dual Tracking /1 Amp. each • Constant Voltage and Constant Current operation • Short circuit protection • Digital display for voltage and current • Adjustable current limiter • Excellent Line & Load Regulation • Low Ripple voltage 	15	
10.	Power Supply	<ul style="list-style-type: none"> • DC 0-30 V / 10 A • Floating Output • Selectable display for Voltage & Current • Low Ripple Voltage • Excellent Line and Load Regulation • Large Display 	1	

11.	Soldering/Desoldering Station	<ul style="list-style-type: none"> • Soldering (60 W, 24 V, Temp Range: 160-480°C) • Desoldering (80 W, 24 V, Vacuum < 600 mm Hg, operating temp. range 160-480°C) • Features: <ol style="list-style-type: none"> 1. Electrostatic discharge protection 2. Ceramic heating element 3. Rapid & precise temp. control $\pm 1^\circ\text{C}$ 4. From room temp. to 350°C in < 30 seconds 5. Integrated automatic "Sleep Function" for being not used for ≥ 15 minutes 6. Wake up, if the iron is lifted again, or a button pressed, the station should automatically return to operating mode and heats up to the pre-set temp. value 7. Warranty for at least one year 8. Free installation and training 	15	
12.	Analog Oscilloscope	<ul style="list-style-type: none"> • Bandwidth: 30 MHz • Channel & Trace: 2 • Vertical Sensitivity: <ul style="list-style-type: none"> ○ Min. Range: 1 mV/div to 5 V/div (independent for each channel) • Horizontal Sensitivity: <ul style="list-style-type: none"> ○ Min. Range: 0.2 $\mu\text{s}/\text{div}$ to 0.5 $\mu\text{s}/\text{div}$ in min. 20 steps (without magnification) • Sweep magnification: x10 (min.) • General facilities: 5 digit (min.) direct frequency measurement, auto time base, LCD display for volt/div, time/div & frequency • Accessory: Min. 2 x 1:1/1:10 switchable probes, main chord, manual, CDs • Minimum 5 years warranty 	15	
13.	Function Generator/Arbitrary Waveform Generator	<ul style="list-style-type: none"> • Output channels: At least 2 • Built-in waveforms: Sine, pulse, ramp, etc. AND Exponential fall, Exponential Rise, Gaussian Pulse, Lorentz etc. • 1 μHz to 80 MHz or better for sine, up to 50 MHz or better for Pulse • Frequency Resolution: 1 μHz or better • Amplitude: Upto 20 V p-p • Sample rate: Max. 1 GSa/s • Memory: 128 K • Vertical Resolution: 14 bits • Modulation types: AM, FM, PM, PWM, FSK, PSK • PC interface: LAN, USB • Display: Around 4 inch color TFT • Desirable specs: <ol style="list-style-type: none"> 1. Load waveform directly from digital oscilloscope via standard interface 2. USB connector on front panel for waveform storage on memory device. • Accessories: Operation Manual, Power cord and Waveform editing software. • 5 years warranty • Preferred make: Tektronix/Rigol 	5	
14.	RF Signal Generator	<ul style="list-style-type: none"> • Frequency range: 9 kHz to 6 GHz • Frequency Resolution: 0.01 Hz • Aging Rate: < 1 ppm/year • Internal Reference Freq.: 10 MHz 	1	

		<ul style="list-style-type: none"> • Temp. Stability: <0.5 ppm • Operating modes: List Sweep (1 to 6001) & Step Sweep (2 to 65535) • Dwell time range: 20ms to 100s • Spectral purity in Harmonics <6 GHz: <-30 dBc • SSB Phase Noise @ 1 GHz: <-108 dBc/Hz, @ 3 GHz: <-102 dBc/Hz, @ 6 GHz: <-96 dBc/Hz • VSWR: < 1.8 • Max DC Voltage: 50V • Max. Reverse Power: 10W • Internal modulation generator waveforms: sine, square, triangle, ramp, sine sweep • Standard AM/FM/PM modulations • Interface: USB, LAN • Display: TFT LCD, > 4 inch, 480*270 resolution • Memory: 1 GB internal • Warranty: 3 years • Preferable make: Rigol/Tektronix 		
15.	Portable External Hard Drive + External Case/Pouch/Bag	<ul style="list-style-type: none"> • 4 TB capacity • USB 3.0, 2.0 compatible • Auto backup using supported software • Password protection • Windows, Mac compatible • USB ports: 1 or more • Accessories: USB 3.0 cable, Installation manual 	4	
16.	Digital Storage Oscilloscope	<ul style="list-style-type: none"> • Bandwidth:100 MHz • Sample rate: 2.5 Gsample/s • Max. Memory depth: 20 Msample • Vertical resolution: 10 bit, up to 16 bit with high resolution decimation mode • Channel to channel isolation: > 50 dB • Automatic waveform measurements • Digital voltmeter resolution: up to 3 digits Bandwidth: 1 MHz • Frequency counter resolution: up to 6 digits • Horizontal zoom with fast navigation, split screen with overview signal and zoomed signal • Special display mode: inverse brightness, waveform color modes for analog channels (temperature, fire, rainbow) • 2 bus signals, parallel & parallel clocked bus modes • Save/recall, undo/redo, camera button and instrument security • Channels: 4 • Input Impedance: 1M ohm with 9pF (meas.) • Rise Time: < 3.5 ns • Display: 10.1" capacitive touchscreen • Mixed Signal Upgrade to non-MSO DSO <ul style="list-style-type: none"> • No. of channels: 16 • Bandwidth: 300 MHz • Max. Sampling Rate: 2.5 GSsample/s • Max. Memory Depth: 10 Msample per channel 	1	

Bidder's Profile to be placed in Envelope A (Annexure-B)

Name of the firm:- _____

Tender for supply of _____

Tender No. & Date: - _____

Technical specification/ literature attached:- Yes/No

GST certificate attached:- Yes/ No

Registration/ Authorization Dealership/
Manufacturer certificate attached:- Yes/ No

Revenue stamp affixed. Yes/ No

Rates covered with transparent tape:- Yes/ No

Bid document fee deposited:- Yes/ No

Bid Security enclosed:- Yes/ No.

Bid price in Indian Rupees:- Yes/ No

Bid without correction/overwriting:- Yes/No

Seal and Signature of the Bidder

Annexure-D

WARRANTY CERTIFICATE

We warrant that everything to be supplied by us hereunder shall be brand new, free from all defects and faults in material workmanship and manufacture and shall be of the highest grade and quality and consistent with the established and generally accepted standards for material of the type ordered, shall be in full conformity with the specifications/drawings of samples if any and shall operate properly. We shall be fully responsible for its efficient operation.

In case of any latent defect or inconsistency due to poor manufacturing/repair and overhaul of the Machinery/Equipment or defective supply not conforming to the specifications if observed at the time of final inspection and thereafter within warranty period ----- months of the date of acceptance, we undertake the guarantee to repair/supply free of cost of defective items up to the final destination and the inland expenses borne by the indenter will be at our cost.

This warranty shall survive inspection and payment for and acceptance of the equipment/machinery shall expire (except in respect of complaints of which the contractor has been notified prior to such date) ----- months in case equipment/machinery after their successful acceptance by the purchaser.

SEAL of manufacturer/supplier.

Signature-----
Dated _____
Manufacturer/Supplier

Name and Address of

Annexure-E (Price Bid)

S. No	Name of Equipment as per the tender	Price per unit FOR IUST campus Awantipora (Excluding GST*)	Quantity	Total Price

* GST shall be paid as applicable at the time of supply of the items.