ISLAMIC UNIVERSITY OF SCIENCE & TECHNOLOGY

TENDER DOCUMENT FOR SUPPLY OF EQUIPMENTS FOR DESIGN INNOVATION CENTRE (DIC@IUST)

TERMS AND CONDITIONS:

1. The sealed envelope superscripted as **"TENDER FOR DIC@IUST"** should be addressed to Member Secretary (DIC@IUST), Islamic University of Science and Technology, Awantipora, Kashmir.
2. The last date of receipt of tender is **20th August 2015** at 1400 hrs.
3. The tenderer should be Original Equipment Manufacturer (OEM) / Authorized Dealer /Distributor of OEM who have been in the said business for at least three (3) years. Tenderers quoting as Authorized Dealer/Distributors of the manufacturer will be considered provided the tenderer furnishes Authorization from the Manufacturer.
4. The tenderer must be in satisfactory operation for at least 3 (three) years as on 31st March 2015 and must be providing annual maintenance services for the equipments where ever required.
5. The tenderer should submit a copy of the latest VAT / Sales tax clearance certificate.
6. Prices quoted by the tenderers should include **all local taxes, VAT, duties, levies, transportation costs, insurance costs, etc.**
7. The DIC reserves the right to accept or reject any or all Tenders without assigning any reasons there for. Any attempt of negotiation on the part of Tenderer to influence by any means will render the tender liable for exclusion from consideration.
8. The Tender should be accompanied with **Earnest Money Deposit (EMD) of 2%** of the tendered value in the shape of CDR of any nationalised Bank drawn in favour of "Islamic University of Science and Technology", payable at Awantipora, Pulwama (J&K). Tender without EMD will not be entertained.
9. The tenderer should quote the rates both in figures and words without cuttings and over writing on the prescribed format and the rate should be inclusive of all taxes and charges. No fluctuation in the rates is permitted during the currency of the tender.
10. Delivery should be FOR Islamic University of Science and Technology, Awantipora Pulwama (J&K).
11 The equipments / items should be supplied within 01 (One) month from the date on which the order is given.
12. The DIC reserves the right to reduce or increase the quantity of item at any time.
13. Tender notice and tender document can be downloaded from University website (www.iustlive.com).
14. The tender should be submitted on the format provided by the university.
15. The Validity of tender should be 90 days.
16. Tenders without the following shall not be entertained:

a. EMD of 2% of the tendered value in the shape of CDR of any nationalised Bank in favour of "Islamic University of Science and Technology" payable at Awantipora, Pulwama (J&K).
b. Copy of the latest VAT / sales tax clearance certificate.
c. Copy of being Authorized distributor / dealer from the OEM / Manufacturer.
d. Proof of being in satisfactory operation for at least 3 (three) years as on 31st March 2015.
e. Tender document downloaded from the University website should be accompanied by a demand draft (non – refundable) of Rs. 1000/- (one thousand) in favour of "Islamic University of Science and Technology" payable at Awantipora, Pulwama (J&K).
f. Tender document should be duly signed and stamped by the supplier.

I am agreeable to all the terms and conditions mentioned above.

Signature of the tenderer

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Annexure I

S. No	Name of Equipment/Instrument	Rating/Specifications	Qty	Total cost including all taxes & charges
01	Analog Oscilloscope	30MHz, Dual channel/Trace, sensitivity 1mv/div, component testing, individual channel control knobs, supported with digital display (desirable)	2	
02	Digital Storage Oscilloscope	>100MHz, 4 channel/trace, sample rate 1GS/s, coloured display, record length more than 2K, supported with digital readout,	1	
03	Function Generator	30MHz with digital display, sine, square, triangular, TTL, Pulse waveforms, $20V_{p-p}$ output, supported with digital display (desirable)	2	
04	Triple Power Supply	30V/3A, 5V/3A, ±15V/3A (variable), digital readout, course and fine controls.	1	
05	Dual Power Supply	0-30V/ 3A two channel variable, digital readout, course and fine controls.	3	
06	Logic Analyser (Standalone)	> 32-channel, minimum 14 inch colour display, maximum state clock rate upto 700 MHz, timing more than 20GHz, record length of more than 56 Mbytes,		
07	8051/89C51 Microcontroller Burner	RS 232 Compatible, 40 Pin DIP compatible, PC compatible Software for Burning.	2	
08	EEPROM burner	RS 232 compatible	1	
09	Multimeter Analog	Hand held, with resistance measuring range from 1 (one) ohm.	1	
10	Digital Multimeter	3-¾ LCD, Digital Display, AC/DC range, measures Resistance, capacitance, Inductance, Diode test and Transistor h_{fe} test. Auto power off, shock proof and full overload protection.	3	
11	Universal IC Tester	Provision for testing 14 pins, 16 pins, 20 pins, 40 pins DIP Socket (including testing of Microprocessor and Microcontroller ICs and Linear ICs) with LCD display	1	

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Annexure II

S. No	Name of Equipment	Specifications	Qty	Total cost including all taxes & charges
01	Apple Laptop	1. 13" Display, Intel i5 processor 2.5 Ghz Dual-Core, 4GB 1600 MHz memory, 500 GB 5400 rpm Hard drive, Intel HD graphics 4000. 2. MacOSX operating system.	2	
02	Projector	Minimum Specifications: 1. 3300 lumens, 3300:1 Contrast Ratio, Native XGA (1024 x 768) Resolution., Wi-Fi and HDMI Connectivity. 2. Up to 10000h expected lamp life, 1.6x Optical Zoom. 3. USB image viewer function, Auto Lamp Dimming Function, Auto brightness adjustment function depending on the contents. 4. Standard Warranty.	1	
03	Work Station	1. Operating System: Windows 8.1 Pro 64 bit. 2. Processor : Intel Xeon E5-2630 v3 2.4GHz 8-core 20MB 1866 3. Intel C612 chipset 4. Memory :16GB DDR4-2133 Registered RAM 5. Storage : 1TB 7200 RPM SATA 6. Minimum Graphics : NVIDIA Quadro K2200 4GB 7. Display: Minimum 23" IPS LED backlit monitor 8. Optical and Removable Storage: Slim SuperMulti DVDRW SATA Optical Disk Drive 9. Keyboard: Standard USB Keyboard. 10. Mouse: Standard Optical USB Mouse. **11.** Standard Warranty.	3	
04	Printer	Minimum Specifications 1. 3-in-1, Monochrome Laser 25 ppm, 600 X 600 dpi resolution,. 2. Copying capacity of 25 ppm, network and USB connectivity,. 3. Colour Scan resolution of 600 dpi.	1	
05	Color Printer	1. Color Laser Jet, Printing Capacity of 14 ppm minimum 2. Resolution 600 X 600 dpi, Interface USB-2.0 and Network.	1	
06	Desktop	1. Operating system : Windows 8.1 Pro 64 bit 2. Processor: Intel® Core™ i7 4th Gen with 8 MB cache 3. Graphics Intel HD Graphics 4600 4. Memory : 8 GB, 800 Mhz (minimum) , DDR3 5. Storage : 1 TB 7200 rpm SATA 6. Optical and Removable Storage: Slim SuperMulti DVDRW SATA Optical Disk Drive 7. Display : Minimum 19" LED backlit 8. Keyboard: Standard USB Keyboard. 9. Mouse: Standard Optical USB Mouse. 10. Standard Warranty	3	
07	UPS	1. Output Power Capacity 3750 Watts / 5000 VA 2. Nominal Output Voltage 230V 3. Output Voltage Distortion Less than 5% at full load 4. Output Frequency (sync to mains) 47 - 53 Hz for 50 Hz nominal 5. Crest Factor up to 5 : 1 6. Topology Line Interactive 7. Waveform Type Sine wave 8. Nominal Input Voltage 230V 9. Input Frequency 50 +/- 5 Hz (auto sensing) 10. Input voltage range for main operations 176 – 282V 11. Battery Type Maintenance-free sealed Lead-Acid battery	1	

		with suspended electrolyte : leakproof, Typical recharge time 3.50 hours. 12. Interface Ports: DB-9 RS-232, SmartSlot 13. Multi-function LCD status and control console 14. Alarm when on battery, Distinctive low battery alarm with configurable delays 15. Emergency Power Off Facility 16. Standard Warranty 2 years repair or replace.		

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Annexure-III

S. No	Name of Equipment	Specifications	Qty	Total cost including all taxes & charges
01	3D printer	Min. build volume = 9x7.5x5.5 in Min. layer resolution = 0.003 in, Max. nozzle diameter = 0.02 in Materials supported: PLA, ABS, Supported files, STL, OBJ, etc. Connectivity, USB, etc.	1	
02	3D printer	Min. build volume = 5x5x5 in Min. layer resolution = 0.003 in, Materials supported: PLA, ABS Supports printing through SD card, Supported files, STL, OBJ, etc. Part replacement warranty ≥ 6 months	1	
03	3D printer	Min. build volume = 10x9x8 in Min. layer resolution = 0.003 in Materials supported: PLA, ABS. Supported files, STL, OBJ, etc.	1	
04	Mini Milling machine	with standard accessories, Minimum drilling capacity ≥ 12mm End mill capacity ≥ 16 mm, Face mill capacity ≥ 30 mm, Motor output power (Brushless motor) ≥ 500 W Tapping function, Fine feeding function and Horizontal milling (optional), Clamping kit, Boring arbor with boring cutter, vice, Rotary table, 2 flute HSS end mill	1	
05	Mini lathe machine	with standard accessories, swing over bed ≥ 180 mm, Distance between centres 300 mm Hole through spindle 20 mm Spindle speed ≥ 100-2000 rpm, Cross slide travel ≥ 65 mm, Motor output power ≥ 500 W Minimum thread range (Metric version) 0.4-2.0 mm (10 threads pitches), (Imperial version), 10-44 TPI (8 threads pitches), Cutter 11 pieces set, Grinding attachment, Cut-off tool	1	
06	Hand drill	Drill dia in wood = 25mm, Drill dia in steel = 10mm Power input = 450W, no load speed 2500 rpm, Reversible	1	
07	Table Saw	Saw blade dia = 254 mm, DxLxH = 73x78x34, Capacity 1800 W, No load speed = 3650rpm,	1	
08	Cut-off saw	Saw blade dia = 355mm, capacity 2000W, no-load speed 3500 rpm,	1	
09	Micro-controller starter kits	Should include silicon core number: STK600, No. of Bits: 32bit, core architecture: AVR, silicon family name: AVR, core sub-architecture: AVR UC3, USB interface to PC for programming and control, serial ISP of tiny AVR and megaAVR devices, silicon manufacturer: Atmel	2	
10	Developmental tool	ATMEL-ICE, For debugging and programming Atmel ARM Cortex-M based Atmel SAM and AVR microcontrollers with on-chip debug capability, supports JTAG, SWD, PDI, TPI, aWire, SPI and debugWIRE interfaces, supports all built-in hardware breakpoints in the target microcontroller, up to 128 software breakpoints, 1.62 to 5.5V target operation, USB powered, provides both ARM Cortex, debug connector pin-out and AVR JTAG connector pin-out	2	
11	Microcontroller trainer	Should be 8 bit embedded PIC based, C-compiler available, experimental board for 40 pin MCS51 and AVR family of microcontroller, in-system programming facility for many microcontrollers, crystal frequency ≥ 10 MHz, 7-segment displays, LCD connector, 4x4 matrix keyboard, I^2C EEPROM, 8-bit ADC and DAC, LED's, Push buttons,	1	

		IR remote control receiver module, DC 12V 500 mA output power supply, etc.		
12	Microcontroller Trainer	32 Bit Embedded ARM Processor Processor LPC2478, ARM7 TDMI controller 12-bit ADC and DAC, 128x64 LCD/TFT display, 4x4 matrix keyboard, Micro SD Card, on board motor interface, LED's, Push buttons, Interface - USB, Ethernet, Power supply 5V, 12V, Modules - Temperature sensor, LDR, ZigBee, DC motor, Stepper motor	1	
13	FPGA development kit	Should have ALTERA CYCLONE III chip embedded, EP3C25, Should include USB cable, DC power supply, Software on CD, LED's, push buttons, multiple I/O ports and pins, USB port, RS-232 optional, etc.	1	
14	FPGA starter kit	Should include Spartan-6 XC6SLX16-CSG324-2C FPGA target reference design featuring DSP48, gigabit ethernet, and DDR3 memory controller, cables and power supply, should contain 128MB of DDR2 component memory and 8Kb IIC EEPROM, 4x LEDs for display, User control with 4 push buttons and 4 DIP Switches	1	
15	FPGA starter kit	Should include development board featuring Spartan-3 XC3S500E-4FG320C FPGA or Spartan-3 XC3S700A-FG484 FPGA Power supply 100-240V, 50/60 Hz, ISE WebPACK software, ISE Foundation software evaluation, USB/Programming cable, etc.	1	
16	Raspberry starter kits	Should include Raspberry Pi 2 B+ , 1 Premium Raspberry Pi Case w/ fan, 1 USB to TTL Serial Cable, 1 Wireless Keyboard+Trackpad, 1 400 pt Breadboard, 1 HDMI Cable, 1 802.11n USB Wifi Dongle, 1 8gb Micro SD Card with NOOBS, 1 40 pin GPIO Ribbon Cable, 1 GPIO Breadboard Breakout Board (Pi Cobbler), 65 M-M Jumper Wires, 3 Aluminum Heat-sink, 1 RGB LED (common cathode), 1 Photoresistor (LDR), 1 1.0 uF Capacitor, 5 Push Button Switches, 10 220 ohm Resistors, 10 10k ohm Resistors, 5 560 ohm Resistors, 1 5V 2.5A Power Supply, 5 5mm LED (1 each/ R,G,B,Y,W)	1	
17	Raspberry starter kits	Should include Raspberry Pi 2 B+ (1GB), and Enclosure Case (Clear), 200 Page Vilros Raspberry Pi User Guide, Edimax EW-7811Un 150Mbps 11n Wi-Fi USB Adapter, 8GB Micro SD Card pre-loaded with "NOOB", SD Card Adapter 5-Foot Micro USB Power Supply 2000 mA HDMI Cable, Heatsink for Raspberry Pi -Set of 2 Heat Sinks Breadboard, Jumper wires, GPIO Ribbon Cable with Breakout board, 10 Yellow LED's 10 Red LED's, 45PC 330ohm Resistors, 45PC 10K Resistors, 2X Big 12mm Button, Ethernet Cable	1	
18	Data acquisition card	12 Digital I/O lines TTL based, 4 analog inputs, Sampling rate ≥ 150 kS/s, 2 analog outputs, counters/timers 16/32 bit = 2, compatible with ANSI C, C# or Matlab, etc. PCI-e slot based support for Windows 8, Linux	2	
19	Data acquisition card	12 Digital I/O lines TTL based, 8 analog inputs, 14-bit resolution sampling rate = 20 kS/s, one 32-bit counter, compatible with ANSI C, C#, .NET, VB .NET, USB based interface to PC	1	
20	Soldering and desoldering station	A complete solution for soldering and desoldering procedure, should have a hot air gun 3 nozzles of different sizes, 1 mini and macro size soldering iron, supply cord, input supply voltage 230V (AC), etc.	1	
21	Soldering station	Heat temp ≥ 150 and ≤ 480^{o}C, 1 stand with sponge, leaflet, temperature control, auto cut facility, supply cord, input supply voltage 230V (AC)	2	
22	CAD modelling and simulation	ANSYS Academic Teaching Mechanical + CFD, 5 tasks with one year AMC	1	

	software			
23	Haptic device	3 degrees-of-freedom, complete kit with GUI USB/Firewire/Parallel port for communication to PC, End-effector movement in 3 directions, translatory motions of end-effector, SDK included, dll's for interface to MATLAB/C/C#	1	
24	Quadcopter	Minimum flight time ≥ 10 minutes should include flight controller, brushless motors as actuators, high capacity lithium battery, perform flips, complete working kit	1	
25	Frequency counter	Frequency range ≥ 1 GHZ, frequency resolution ≥ 10 digits, time resolution ≥ 50 pico seconds, No. of channels ≥ 2	1	

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Annexure-IV

S. No	Name of Equipment	Specifications	Qty	Total cost including all taxes & charges
1	Rack	Steel rack made of 24gauge 72x32x12 (inch) having 6shelves making 5 compartments	2	
2	Office Table	Office table with drawers 24x45 (inch)	2	
3	Computer table	Computer Table 24x45 (inch)	6	
4	Chairs	Chair revolving with hydrolic base.	10	
5	Student tool	Steel nickled cushion top hydrolic stool	20	
6	Ordinary Chairs	Chair fixed with dotted back.	20	
7	Conference table	Oval shaped 12 seats with 8 mm glass top fitted body laminated board	1	
8	Locker	Steel locker Big 24 g 78x33x18 (inch) 5 shelves 6 comp,	1	
9	Locker	Steel Locker small 52x30x17 (inch) 3 shelves 4 comp	1	