Central University of Jammu

Rahya-Suchani (Bagla), Distt. Samba, Jammu, J&K-181 143
www.cujammu.ac.in , Ph: 01923-249658

e-Tender No.: 15/2019-20

e-Tender Notice for Supply & Installation of
IoT and Embedded Devices

(Two Bid System)

Release Date : 30.08.2019;

Last Date : 20.09.2019; 1400Hrs.

Central University of Jammu

Central University of Jammu (CUJ) invites bids through e-tendering mode from Original Equipment Manufacturers (OEM) /Authorized Dealers for supply & installation of **IoT and Embedded Devices** at CUJ for Academic, Education and Research purpose. Bids shall be submitted through online mode only at https://cujammu.euniwizarde.com

Tender Notice Number	:	15/2019-20
Release Date of the Tender	:	30.08.2019
Last date for the submission of Tender	:	20.09.2019; 1400hrs.
Opening date of Tender	:	20.09.2019; 1500hrs. (In case tender opening day declared holiday for any reason the tender will be opened on next working day at same time.)
Name and Address of the University	:	Registrar, Central University of Jammu Rahya-Suchani (Bagla), Distt. Samba, Jammu, J&K-181 143 www.cujammu.ac.in
Telephone	:	Ph: 01923-249658
E-Mail Address	:	registrar@cujammu.ac.in
Earnest Money Deposit (EMD)	:	EMD of Rs.26000/- must be submitted through Netbanking/Debit/Credit card/ RTGS/NEFT challans @ https://cujammu.euniwizarde.com

S. No.	Equipment	EMD
1.	**IoT and Embedded Devices– 01 set**	Rs.26000/-

Note: Offers without EMD shall not be entertained. The bidders registered with NSIC are exempted from submission of EMD. Bidders claiming EMD exemption shall submit valid NSIC certificate alongwith tender.

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GUIDELINES FOR PREPARATION OF TENDER

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INSTRUCTIONS TO BIDDERS

1. **Preface:** Central University of Jammu (CUJ) intends to purchase equipment, **IoT and Embedded Devices** from Original Equipment Manufacturers (OEM) / authorized dealers, to be installed at University Campus Rahya-Suchani (Bagla),

2. **Call for Tender:** Bids are invited through e-tendering mode from eligible OEM/authorized dealers for **Supply and installation of IoT and Embedded Devices** at CUJ for ACADEMIC, EDUCATION and RESEARCH purpose. Bids shall be submitted through online mode only at **https://cujammu.euniwizarde.com**

3. **Availability of tender form:** The Bidder shall download the Tender Enquiry Document from the websites; **www.cujammu.ac.in, https://eprocure.gov.in/cppp** and **https://cujammu.euniwizarde.com** and shall not tamper/modify it including downloaded Price Bid template in any manner. In case, the same is found to be tempered/modified in any manner, Tender/Bid will be summarily rejected and EMD would be forfeited.

4. **Submission of tender:** Bids shall be submitted through online mode only at **https://cujammu.euniwizarde.com** Bidding process is online but Technical Bid must be submitted (both online & offline). Hard copy of Technical Bid in sealed cover (with respective marking superscripted in bold) should also be sent by post to the "Registrar, Central University of Jammu, Rahya-Suchani (Bagla), District Samba – 181143 (J&K)" prior to bid opening date/time and the same must be uploaded online at **https://cujammu.euniwizarde.com** Tenders received late shall not be considered.

5. **Bid security / EMD:** EMD of Rs.26000/- must be submitted through Net-banking/Debit/Credit card/ RTGS/NEFT challans @ **https://cujammu.euniwizarde.com**

6. The bidder(s) are advised that they should regularly check the University website **www.cujammu.ac.in**, **https://eprocure.gov.in/cppp** and **https://cujammu.euniwizarde.com** as any change in terms and conditions, specification, date etc shall be notified on the University website **www.cujammu.ac.in**, **https://eprocure.gov.in/cppp** and **https://cujammu.euniwizarde.com** only.

7. Intending bidders are advised to visit **www.cujammu.ac.in, https://eprocure.gov.in/cppp** and **https://cujammu.euniwizarde.com** regularly till closing date of submission of bid, for any corrigendum.

8. Either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid. If an agent submits bid on behalf of a Principal/OEM along with the Authorization Certificate for this tender from the OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product. All bids other than those from the Principal/OEM should be supported by an authority letter from the manufacturer authorizing the supplier to tender on their behalf. In case of manufacturer, a certificate or a copy thereof to the effect that the bidder is manufacturer of the equipment must be accompanied with the technical bid prepared as per 'Annexure – J'.

9. **"Financial Bid"** must be prepared as per Annexure – D and submitted alongwith **Manufacturer's original price list** through online mode only at **https://cujammu.euniwizarde.com**

10. Reference of supply: Name and contact details of the premier educational Institutes where the similar equipment has been installed as per Annexure-F. If possible, copies of at least two purchase orders may be attached. Central University of Jammu reserves the right to inspect the equipment for its actual performance in any of the listed Institute.

11. Tenders must accompany a copy of the *"General Financial Terms and Conditions"* section of this document, signed and stamped on each page indicating that they agree to these.

12. The Tenders will be opened at the University campus as per given schedule. If the Tender opening day happens to be official Holiday then the tenders will be opened on the next working day, in the presence of bidders whosoever may wish to be present.

13. The tenders received late, without earnest money, without required documents or incomplete in any respect / Misleading will out rightly be rejected. Submission of documents (by facsimile, email and so on) is not acceptable.

14. If the supplier/firm is manufacturer/authorized dealer/sole distributor of any item, the certificate to this effect should be attached.

15. Availability of Spares/Consumables: The tenderer must give certificate duly signed and stamped by manufacturer for the availability of spares/consumables and servicing of instrument for at least 5 years. Supplier should give an undertaking that spares parts/consumables will be supplied within the specified periods as and when ordered.

16. The tender competing in technical evaluation will only be considered for financial evaluation. The price envelops of others will not be considered. Financial bids of only technically acceptable offers will be opened for further evaluation and ranking before awarding the contract.

17. The financial proposal shall be opened in the presence of the tenderers or their representative who choose to attend. The prior information in this regard will be given to the qualified tenderers.

18. The printed literature and catalogue/brochure giving full technical details should be included with the technical bid to verify the specifications quoted in the tender.

19. Service Manual/Circuit Diagram: It is specifically required that the bidders will supply all the operating & service manuals and circuit diagrams along-with the equipment.

20. **Schedule of e-Tender:**

1.	Published Date	30.08.2019
2.	Bid Document Download / Sale Start Date	30.08.2019
3.	Bid Submission Start Date	30.08.2019
4.	Bid Document Download End Date	20.09.2019; 1355Hrs.
5.	Bid Submission End Date	20.09.2019; 1400Hrs.
6.	Bid Opening Date(Technical)	20.09.2019; 1500Hrs.
7.	Tender process fee (online mode)	Rs.1294 + GST
8.	EMD (online mode)	Rs.26000/-

GENERAL FINANCIAL TERMS AND OTHER CONDITIONS

1.   **Acceptance of Terms & Conditions:** Bidders must confirm the acceptance of all the terms and conditions of this tender. Any non-acceptance or deviations from the terms and conditions must be clearly mentioned. However, tenderers must note carefully that any conditional offer or any deviation from the terms and conditions of this tender enquiry may render the bids liable for rejection.

2.   **Prices**: Quoted prices should be firm, inclusive of insurance and FOR Central University of Jammu, Rahya-Suchani (Bagla), Distt. Samba, Jammu, J&K (Either Import or Indigenous) and complete break up of all taxes and duties payable by the university should be clearly defined otherwise it will be presumed that the rates quoted are inclusive of all these charges and nothing extra will be paid. Special Discount/ Rebates, whichever applicable to an educational institution, may also be specifically indicated. For Import items, prices may be quoted in foreign currency. Exchange Rates of foreign currency will be taken from RBI website as on opening of the technical bids for the purpose of conversion in Indian rupees. In case of offers received in INR as well foreign currencies, evaluation shall be based on all inclusive landed cost.

3.   **Taxes:** All kinds of Statutory Taxes will be paid by the purchaser on the basis of supportive Documentary Evidence.

4.   **Indigenous items:** The items which can/are to be provided indigenously may be listed separately and the items to be provided indigenous should be quoted in INR only.

5.   **Country of Origin:** Country of origin of the quoted item should be mentioned in the offer in case of Import item.

6.   **Payment :**
        a). Items supplied by Indian Bidder: Through RTGS/Demand Draft: 90% payment will be made within 30 days from the date of receipt of material at Central University of Jammu, successful installation of the equipment and acceptance by the University and balance 10% after and on the submission of performance bank guarantee valid for warranty period + 3 months.

         b). Items directly supplied by overseas Principal/ OEM: Through Telegraphic Transfer/ Foreign Demand Draft:
        (i) 90% payment will be made through TT/FDD after receipt of material at Central University of Jammu alongwith dispatch documents viz. Original invoice giving full details of the goods, Packing list, Certificate of country of origin, Manufacturer's test certificate and guarantee, Certificate of insurance and Bill of lading/airway bill etc. and submission of performance bank guarantee for 10% of order value, either by the principal company or by their Indian agent valid for warranty period + 3 months and

        (ii) Balance 10% payment after successful installation of the equipment and acceptance by the University.

7.   **Parts of Equipment:** Where the equipment is composed of several subunits/components, the rate should be quoted for each subunit/ component. The University reserves the right to increase or decrease the number of subunits/ components and number of equipment according to its requirements. The rates in

ambiguous terms will render the bids liable to rejection. The words "Not quoting" should be clearly written against any item of equipment for which the tenderer is not quoting.

8. **Validity**: Tenders should be valid for three months from the last date of its submission.

9. **Opening of Tenders:** Tenders complete in all respect will only be considered. Tenders will be opened at the University campus as per given schedule. If the Tender opening day happens to be official Holiday then the tenders will be opened on the next working day, in the presence of bidders whosoever may wish to be present.

10. **Incomplete or Misleading Tenders:** Tenders received late or incomplete in any respect/ misleading without earnest money& without required documents will out rightly be rejected. No responsibility with regard to postal delays due to any reason whatsoever will be accepted.

11. **Right to reject:** The CUJ reserves right to accept/reject any or all the Tenders at any time without assigning any reason.

12. **Delivery Schedule**: Supply and installation must be in 4 weeks.

13. **Installation**: Installations and Training of the equipment under purchase will be of free of cost.

14. **Penalty for non/late delivery of material**: If the supplier fails to deliver and install the material/equipment within the stipulated delivery period of the Supply/Purchase order/contract the same is liable to pay penalty charges at 0.5% of the cost of goods/ services per week, not exceeding maximum limit of 10% of the cost of complete unit of equipment/material so delayed to installed.

15. **Custom Duty & Excise Duty Exemption:** The University being a public funded and non-commercial research institution is exempted from paying Custom Duties vide notification no. 51/96-custom and the provision of the said notification will apply. University will provide DSIR certificate, Custom Duty Exemption Certificate (CDEC), road permit and other necessary certificates. Since the University does not have any Clearing Agent, the Supplier is required to get the consignments cleared on behalf of the University. The admissible Custom Duty will be reimbursed to the Supplier on production of documentary evidence of payment of Custom Duty. The equipment should come straight from the nearest Airport to the University and not be taken to warehouse/ Godown. In case of inspection by the Customs, legible seal of Custom Officials should be present along the tearing of consignment.

16. Central University of Jammu is eligible for payment of GST @ 5% in terms of Govt. Notification No. Notification No. 47/2017-Integrated Tax (Rate), dt. 14th November, 2017 and Notification No. 10/2018- Integrated Tax (Rate), the 25th January, 2018 for which necessary certificates will be provided by the University.

Further, University will also provide Certificate under SRO 129 of 2012, if applicable, for exemption of entry tax on scientific instruments.

17. **Security Deposit:**
a. Firm/bidder/Supplier is required to submit security deposit @10% of the order value in the shape of FDR/PBG favouring **Central University of Jammu** within 30 days from the date of acceptance of Purchase Order. Failure to submit security deposit in the stipulated time will lead to forfeiture of EMD.

b. On faithful execution of the Supply/Work order/contract on all respects, including warranty period, the security deposit of the contractors/supplier shall be released.

c.   In the event of default on your part in faithful execution of Supply/Work order/contract, the security deposit shall be forfeited by an order of the Registrar of the University. The forfeiture of security deposit shall be without prejudice to any other right arising or accruing to the university under relevant provisions of the Supply/Work Order/contract like penalty/damages for delay in delivery provisions under Negligence& default clause including suspension of business dealings with the university for a specific period.

18.   **Warranty/ Guarantee:** Bidders are required to submit comprehensive warranty/ Guarantee certificate as per given Performa at Annexure-H.

19.   Equipment quoted should be latest model confirming to technical specifications as per tender document.

20.   Manufacturer's original price list must be enclosed alongwith the price bid.

21.   **Arbitration:**
a.   If it any time any question dispute or difference what so-ever shall arise between the purchaser/University and the contractor/supplier, upon or in relation to or in connection with purchase order/contract, either party may forthwith give to the other notice in writing of the existence of such question dispute or difference and the same shall be referred to sole arbitration of a nominee of the purchaser/University, who shall give a reasoned/speaking awards. The award of the sole arbitrator shall be final and binding on the parties under the provisions of the Indian Arbitration Act-1997(Amended up to date) and of the rules, there under. Any statutory amendment, modification or re-enactment thereof for the time being in force, shall be deemed to apply and be incorporated in the contract/purchase order. The sole Arbitrator shall be any officer of the University who name is approved by the Vice Chancellor. It will not be objectionable if the Sole arbitrator is an officer of the university and he has expressed his views on all or any of the matter in question of dispute or difference.

b.   Upon every or any such reference, the cost of and incidental to the reference and award respectively shall be at the discretion of the sole arbitrator so appointed who may determine the amount there of or direct the same to be fixed as between the solicitor and client or as between party and shall direct by whom & to whom and in what manner the same is to be borne and paid.

c.   The work under the contract shall, if reasonable possible continue/during the arbitration n proceedings and no payment due or payable by the purchaser/university shall be withheld on account of such proceedings.

22.   **Site Preparation:** The supplier shall inform CENTRAL UNIVERSITY OF JAMMU about the site preparation along with technical bid, if any, needed for the installation, must provide complete details regarding space and all infrastructural requirements needed for the equipment, which CENTRAL UNIVERSITY OF JAMMU will arrange before the arrival of equipment to ensure its early installation and smooth operation thereafter. The supplier may offer his advice and render assistance to CENTRAL UNIVERSITY OF JAMMU in the preparation of the site and other pre installation requirements.

23.   **Annual Maintenance Contract (AMC):** Duly signed and stamped certificate with rates of 3 years maintenance contract after expiry of warranty period should be attached with the technical bid as per Annexure-H. AMC charges will be taken into consideration for price comparison. Successful firm will be required to agree for payment of penalty for exceeding permissible time during maintenance period.

24.   **Civil Suit Jurisdiction:** All legal proceedings in connection with this Supply/Purchase order/Contract shall be subject to the territorial jurisdiction of the local Civil Courts, as per Indian Laws, at JAMMU only.

25.   Financial Bids of only such tenderers shall be opened who are technically qualified. Technical criteria shall be as per checklist (Annexure-M)

26.   **Cancellation :** The University reserves the right to cancel the Supply/purchase order as a whole or in part at any time or in the event of default on the part of the Suppler prior to the receipt of information regarding taking in hand of the manufacture of material against the Supply/Purchase order/dispatch of material to the consignee.

TECHNICAL SPECIFICATIONS

SN	Name	Specification	Qty
1	**Desktop PC**	**Core I-7, 8 generation, 8GB RAM, 1TB HDD, 19.5" TFT, 2GB Dedicated Graphics, windows 10 Professional**	4
2	**Routers (IoT Lab)**		5
3	**POE Switch (IoT Lab)**		5
4	**IoT Development Kits - BOM**		
	MyoWare Muscle Sensor Development Kit	1x MyoWare Muscle Sensor 1x MyoWare Power Shield 1x MyoWare Cable Shield 1x MyoWare LED Shield 1x MyoWare Proto Shield 1x Sensor Cable — 3 Connector 10x Biomedical Sensor Pad 11x Stackable Header — 3 Pin, Female 3x Header — 3 Pin, Male	1
	SparkFun micro:climate kit	1x SparkFun weather:bit 1x Weather Meters 1x SparkFun Soil Moisture Sensor 1x SparkFun OpenLog 1x Waterproof Temperature Sensor 1x micro:bit Battery Holder - 2xAA 1x Pocket Screwdriver Set 10x Jumper Wire (12in. M/M)	1
	EasyVR Shield 3.0 - Voice Recognition Shield	A selection of 26 built-in Speaker Independent (SI) commands (available in US English, Italian, Japanese, German, Spanish, and French) for ready to run basic controls. Supports up to 32 user-defined Speaker Dependent (SD) triggers or commands (any language) as well as Voice Passwords. With the optional Quick T2SI Lite license you can add up to 28 Speaker Independent (SI) Vocabularies, each one with up to 12 SI different commands. Therefore an overall number of up to 336 additional SI commands! SonicNet to control one or more EasyVR 3.0s wirelesly with sound tokens generated by the module or other sound source DTMF tone generation	2
	Arduino Uno R3 + Type B USB cable	Indian/China make with 1.5 meters USB cable	30

	ESP-32 WROOM Development Board + Micro USB cable	Xtensa® single-/dual-core 32-bit LX6 microprocessor(s), up to 600 DMIPS (200 DMIPS for ESP32-S0WD, 400 DMIPS for ESP32-D2WD) • 448 kB ROM • 520 kB SRAM • 16 kB SRAM in RTC • QSPI flash/SRAM, up to 4 x 16 MB • Power supply: 2.3V to 3.6V	30
	ESP-12E, NodeMCU development board + Micro USB cable	The Development Kit based on ESP8266, integates GPIO, PWM, IIC, 1- Wire and ADC all in one board. Power your developement in the fastest way combinating with NodeMCU Firmware! USB-TTL (CP2102), plug&play 10 GPIO, every GPIO can be PWM, I2C, 1-wire FCC CERTIFIED WI-FI module（Coming soon） PCB antenna	10
	RC522 - RFID Reader / Writer 13.56MHz with Cards Kit	Operating Current :13-26mA / DC 3.3V Idle Current :10-13mA / DC 3.3V Sleep Current: < 80uA Peak Current: < 30mA Operating Frequency: 13.56MHz Supported card types: mifare1 S50, mifare1 S70 MIFARE Ultralight, mifare Pro, MIFARE DESFire Environmental Operating Temperature: -20 - 80 degrees Celsius Environmental Storage Temperature: -40 - 85 degrees Celsius Relative humidity: relative humidity 5% - 95% Reader Distance: ≥ 50mm / 1.95" (mifare 1) Module Size: 40mm × 60mm Module interface: SPI Data transfer rate: Maximum 10Mbit/s	5
	433MHz ASK TX + RX Module (Pair	DRA887TX Transmitter Features: Category: ASK transmitter module Features: Frequency Range: 433MHz Output power: 10-17dBm Tx current: 24mA Temperature: -20~+70C Supply voltage: 1.5~5.5V DRA886RX Receiver Features: Category: ASK receiver module Features: Frequency Range: 433MHz	10
	Arduino GSM Shield 2 with Integrated Ant(Orginal Arduino-Italy)	Arduino GSM Shield Features: Make/receive voice calls and send/receive SMS messages easily for your robots or other device Software serial communication with Arduino TCP/UDP and HTTP supported 85.6 kbps GPRS data downlink and uplink maximum Developed with Telefónica of Spain	5

HM-10 BLE 4.0 Firmware V540 Bluetooth Low Energy Module	Device Features: CC2541 Bluetooth Chip Solution Fully Qualified Bluetooth V4.0 Ble Full Speed Bluetooth Operation with Full Piconet Support and Scatternet Support Increadible samll size with 3.3V input, and RoHS Compliant UART interface and with baudrate setup function	5
LinkIt ONE - MediaTek GSM, GPS, WiFi, Bluetooth Development Board	Includes ARM7 EJ-S™, GSM, GPRS, Wi-Fi, Bluetooth BR/EDR/BLE, GPS, Audio codec, and SD card connector on a single development board. Pin-out similar to Arduino boards, including Digital I/O, Analog I/O, PWM, I2C, SPI, UART and power supply, compatible with Arduino. Provides various interfaces for connecting to most sensors, peripherals, Groves, and other widgets. You are what you wear. Using LinkIt ONE together with MediaTek LinkIt SDK (for Arduino) you will be able to easily turn your ideas into practical prototypes and make them a reality with the Seeed productization and agile manufacturing service.	4
MT2502 Xadow GSM + BLE 32-bit ARM7EJ-STM RISC Development Board	Based on the smallest commercial System-on-Chip (5.4mm x 6.2mm) currently on the market Open source and modular design Slim and small Built-in Xadow Connectors for easy pluggable FPC cables Stackable, chainable and sewable with other Xadow Modules Core module for most of RePhone Kits Perfect choice for long-distances and short-range communication	3
XBee/ZigBee Adapter board with USB interface	XBee/ZigBee Adapter board with USB interface	10

	XBee S2C Low-Power Module, with Wire Antenna for ZigBee Mesh networks	Protocol: Zigbee® RF Standard: 802.15.4 Frequency (ISM Band): 2.4GHz Digital I/O: 15 ADC Channels: (4) 10-bit ADC inputs Data Rate: RF 250 Kbps, Serial up to 1 Mbps Range: Indoor 200 ft (60 m), Outdoor (LOS) 4000 ft (1200 m) Transmit Power: 3.1 mW (+5 dBm) Channels: 16 channels Encryption: 128-bit AES Voltage requirements: 2.1 to 3.6 VDC Current requirements: ~33 mA @ 3.3VDC (transmit), ~28 mA @ 3.3VDC (receive), <1 uA @25ºC (sleep) Communication: CMOS UART / SPI @ ~3.3V Dimensions: 1.087" L x 0.960" W x 0.16" H (27.61 x 24.38 x 4.06 mm) Operating temperature range: -40 to +185 °F (-40 to +85 °C)	10
	LinkIt Smart 7688 Duo OpenWrt Linux MT7688 and ATmega32u4 based WiFi IoT Development Board	580 MHz MIPS CPU Single input single output(1T1R) Wi-Fi 802.11 b/g/n (2.4G) Pin-out for GPIO, I2C, SPI, SPIS, UART, PWM and Ethernet Port 32MB Flash and 128MB DDR2 RAM USB host Micro SD slot Support for Arduino (ATmega32U4)	2
	GSM/GPRS Module, Ai-Thinker	Thinklets™ A6 GSM GPRS Module(From Ai-Thinker : Makers of ESP8266) Quad-band for Arduino, Raspberry Pi and other MCU	2
	Dragino LoRa Shield	168 dB maximum link budget. • +20 dBm - 100 mW constant RF output vs. • +14 dBm high efficiency PA. • Programmable bit rate up to 300 kbps. • High sensitivity: down to -148 dBm. • Bullet-proof front end: IIP3 = -12.5 dBm. • Excellent blocking immunity. • Low RX current of 10.3 mA, 200 nA register retention. • Fully integrated synthesizer with a resolution of 61 Hz. • FSK, GFSK, MSK, GMSK, LoRa™ and OOK modulation. • Built-in temperature sensor and low battery indicator. Compatible with 3.3v or 5v I/O Arduino Board. • Frequency Band: 868 MHZ	4

	FiPy- Five Network IoT Development Board	FiPy Features Powerful CPu Five networks: WiFi, BLE, cellular LTE-CAT M1/NB1, LoRa and Sigfox 1KM WiFi range MicroPython enabled Fits in a standard breadboard (with headers) Ultra-low power usage: a fraction compared to other connected microcontrollers	2
	External LTE-M Antenna Kit	External LTE-M Antenna Kit for use with the FiPy and GPy development boards. Specification – Lte band 28/38*2 – Frequency: 703~803/2520~2620(MHz) – Antenna size: 75 x 21 (mm) – PCB 0.6 mm Low Bands – (5, 8, 12, 13, 18, 19, 20, 28) – Tx frequencies 699 to 915 MHz – Rx frequencies 729 to 960 MHz Mid Bands – (1, 2, 3, 4) – Tx frequencies 1710 to 1980MHz – Rx frequencies 1805 to 2170 MHz	2
	NVIDIA Jetson TX2 Developer Kit	real-time Artificial Intelligence (AI) performance from this NVIDIA Pascal™ powered supercomputer on a module. With HMP Dual Denver 2/2 MB L2 + Quad ARM® A57/2 MB L2 CPU, 4K x 2K 60 Hz video encode and decode, and 8 GB 128 bit LPDDR4 memory, the Jetson TX2 is ideal for intelligent edge devices such as robots, drones, enterprise collaboration, intelligent cameras and more.	2
5	**IoT Sensors BOM**		
	3 Axis Accelerometer with Regulator - ADXL335 (SPI Communication)	3V-6V DC Supply Voltage Onboard LDO Voltage regulator Can be interface with 3V3 or 5V Microcontroller. All necessary Components are populated.	5
	3-Axis Accelerometer Sensor (I2C)	Ultra Low Power: 40uA in measurement mode, 0.1uA in standby@ 2.5V Tap/Double Tap Detection Free-Fall Detection Analog output Onboard MMA7660 Accelerometer chip ±1.5 g, 3 axis Sensing Onboard 3V3 Regulating IC Built-in LED for Power Onboard Power supply filtering Capacitors Onboard Power supply de-coupling capacitors Digital Output (I2C) Balanced Berg strip connectors Input voltage	5

		range (5V-10V)	
	Temperature Sensor - LM35 Module	Calibrated directly in ° Celsius (Centigrade) Linear + 10.0 mV/°C scale factor 0.5°C accuracy guarantee (at +25°C) Rated for full −55° to +150°C range Suitable for remote applications Low cost due to wafer-level trimming Operates from 4 to 30 volts Less than 60 µA current drain Low self-heating, 0.08°C in still air Nonlinearity only ±1⁄4°C typical Low impedance output, 0.1 W for 1 mA load	10
	DHT11 Temperature & Humidity Sensor Module	Temperature Resolution : 1°C Measuring range : 0°C ~ 50°C Humidity Resolution : 1%RH Accuracy : ±5%RH (0~50°C) Measuring range : 20%RH ~ 90%RH (25°C) Operating voltage : 3.3V ~ 5.5 V Recommended storage condition Temperature : 10°C ~40°C Humidity : 60%RH or below	15
	JSN-SR04T Integrated Waterproof Ultrasonic Ranging Module	Electrical parameters: JSN-SR04T Operating voltage: DC 5V Quiescent current: 5mA Total current work: 30mA Acoustic emission frequency: 40khz Farthest distance: 4.5m Blind: 25cm Wiring: + 5V (positive power supply) Trig (control side) RX Echo (the receiver) TX GND (negative) Module size: 41mm * 28.5mm Resolution: about 0.5cm Angle: less than 50 degrees Working temperature: -10 ~ 70 ℃ Storage temperature: -20 ~ 80 ℃	2
	VL53L0X Time-Of-Flight Distance Sensor break out board	Resolution: 1 mm Maximum range: 2 m2 Interface: I²C Minimum operating voltage: 2.6 V Maximum operating voltage: 5.5 V Supply current: 10 mA3	1
	LPG Gas Sensor Module -V2	Resolution: 1 mm Maximum range: 2 m2 Interface: I²C Minimum operating voltage: 2.6 V Maximum operating voltage: 5.5 V Supply current: 10 mA3	10
	MQ-135 Air Quality Sensor Hazardous Gas Detection Module	Input voltage: DC5V power (current): 150mA Analog output with increasing concentration, the higher the concentration, the higher the voltage. A hazardous gas detection apparatus for the	10

		family, the environment. Suitable for ammonia, aromatic compounds, sulfur, benzene vapor, smoke and other gases harmful gas detection. Gas-sensitive element test concentration range: 10 to 1000ppm TTL output valid signal is low level, (output low signal light, which can be accessed microcontroller IO port).	
	Color Sensor, Complete Color Detector	Sensor Chip: TCS3200 (RGB color detector) Square wave output Supports fill-light by onboard LEDs Power: 2.7V ~ 5.5V Ideal detection distance: 10mm	5
	Spectral Sensor Breakout - AS7263 NIR	6 near-IR channels: 610nm, 680nm, 730nm, 760nm, 810nm and 860nm, each with 20nm FWHM NIR filter set realized by silicon interference filters 16-bit ADC with digital access Programmable LED drivers 2.7V to 3.6V with I2C interface 2x Qwiic connectors	2
	Hall Sensor	49E hall sensor Features wide range voltage comparator LM393 Adjustable sensitivity Signal output indicator	5
	DHT22 Temperature-Humidity Sensor	Temperature Resolution : 0.1°C Accuracy : ±0.5°C Measuring range : -40°C ~ 80°C Humidity Resolution : 0.1%RH Accuracy : ±2%RH (25°C) Measuring range : 0%RH ~ 99.9%RH Operating voltage : 3.3V ~ 5.5 V Recommended storage condition Temperature : 10°C ~40°C Humidity : 60%RH or below	5
	Piezo Vibration Sensor - Small Vertical	Flexible PVDF Piezo Polymer Film Wide dynamic range Laminated for higher voltage output Breadboard friendly leads	5
	TSOP1738 IR Receiver	Supply Voltage: 5 V Power consumption: 0.4 to 1.0 mA Min. Ee irradiation: 0.35 mW/m2 typ. Angle of detection: 90 Dimensions of the casing (mm): 12.5 x 10 x Thickness 5.8 Temperature range: -25 C to +85 C	4
	Infrared (IR) Remote Controller	Sporty design 21 different control buttons Output Frequency: 38KHz 940nm IR LED Cheap and easy to use Minimum control range of 8 meters Powered on 3V Coin Cell Battery Receiver Included	4

	Door/Window contact magnetic reed switch alarm	Operating Distance :15-25mm Rated Power :10W Maximum switch current :0.5Amp Voltage :100V Power :10W Wire Length :9 inch Switch Size :10 x 33 mm Color: White Mounting Method: SMD (by screws or double-sided tapes) Easy to install High quality contacts, UL wire leads	6
	Water Flow Sensor - White (Hall Sensor based	Model: YF-S201 Sensor Type: Hall effect Working Voltage: 5 to 18V DC (min tested working voltage 4.5V) Max current draw: 15mA @ 5V Output Type: 5V TTL Working Flow Rate: 1 to 30 Liters/Minute Working Temperature range: -25 to +80℃ Working Humidity Range: 35%-80% RH Accuracy: ±10% Maximum water pressure: 2.0 MPa Flow rate pulse characteristics: Frequency (Hz) = 7.5 * Flow rate (L/min) Pulses per Liter: 450	5
	Pedometer Sensor Module (Count your Steps!!	Pulse output Counting Accuracy: ±3% Working current: <60uA Standby current: <5uA Supply voltage: 2.5~3.3V Working Temp: -10~+55℃ Dimensions: 12*12.4*2mm	5
	OpenMV M7 Camera	The STM32F765VI ARM Cortex M7 processor running at 216MHz with 512KB of RAM and 2MB of flash. All I/O pins output 3.3V and are 5V tolerant. RGB LED and two high-power 850nm IR LEDs. The OV7725 image sensor is capable of taking 640x480 8-bit grayscale images or 320x240 16-bit RGB565 images at 30 FPS. OpenMV Cam comes with a 2.8mm lens on a	4
	CMOS Camera Module - 728x488	standard M12 lens mount. his is a high-quality color CMOS camera module. Power the CM-32 module, hook up any display, monitor, or LCD screen with an RCA input and get vivid color video at 728x488 resolution. Module is easily mountable and has a wide operating voltage (6V to 20V). Comes with high quality optics, all the on board circuitry to output RCA signal, and cable harness.	2

	Turbidity Sensor Suspended Particles Turbidity Detection Module Kit	Working Voltage: DC5V Operating Current: 30mA (MAX) Response time: <500ms Insulation Resistance: 100M Ω *Min+; Output way: Analog output 0-4.5V Output way: high / low signal (High : 5V Low : 0V) Operating temperature: -30 oC to 80 oC; Storage temperature: -10-80 oC.	2
	Bread Board Power Supply Module 3.3V & 5V Output	Onboard power supply chip AMS1117-3.3 and AMS1117-5. Output voltage (DC) : 6.5 V to 12 V. Input voltage (DC) : 3.3 V and 5 V output. Onboard USB female, can be used as a power input and USB power output. Onboard power 3.3 V and 5 V row needle leads. Onboard power switch, convenient power control. Compatible with MB102 breadboards.	10
	ADC0809: Analog to Digital Breakout Module	ADC 0809: Analog to digital converters find huge application as an intermediate device to convert the signals from analog to digital form. These digital signals are used for further processing by the digital processors. Various sensors like temperature, pressure, force etc. convert the physical characteristics into electrical signals that are Analog in nature.	6
6	**Actuators - BOM**		
	Alphabot2 Robot Building Kit For Raspberry Pi 3 Model B	AlphaBot2 Features: AlphaBot2 employs a 2-layer structure to provide excellent stability and compatibility. AlphaBot2-Base, the lower base chassis: 5 channel infrared sensor, analog output, combined with PID algorithm, stable line tracking Onboard modules like line tracking, obstacle avoiding, needs no messy wiring TB6612FNG dual H-bridge motor driver, compared with L298P, it's more efficient, more compact, and less heating N20 micro gear motor, with metal gears, low noise, high accuracy Onboard RGB LEDs, true color lighting, pretty cool AlphaBot2-Pi, the upper adapter board for controller: LM2596 voltage regulator, provides the Pi with stable 5V power TLC1543 AD acquisition chip, allows the Pi to use analog sensors	4

		PCA9685 servo controller, make it more smoothly to rotate the pan head CP2102 UART converter, easy for controlling the Pi via UART Note: Raspberry Pi is NOT included.	
	Pan/Tilt Bracket Kit (Single Attachment)	an/tilt bracket kit utilizes servos to move on two axes fit for camera and helping-hand applications. This particular bracket kit is the same one used in SparkFun Raspberry Pi Zero W Camera Kit to create a remote camera system for home or workplace. Everything is included to get this kit assembled, even the servos (just be sure the servo motors are centered during assembly).	4
	12V Solenoid Valve - 3/4"	Have you ever wanted to control the flow of a liquid using your computer or microcontroller, but didn't know how? Well, here's how: The 12V solenoid controlled fluid valve. Simply connect a fluid source to the 3/4" threaded inlet and it will interrupt the flow until 12V is applied to the fast-on connectors on the solenoid.	4
	Vacuum Pump - 12V	Vacuum Pump Features: 12V motor 12W operation ¼" barbs 0-16" Hg vacuum range	4
	Mini Water Pump	Self priming pump Optimal Voltage: 6V Working Voltage: 4V - 12V Net lift: 1.2m @ 9V Working Current: 0.8A Motor Diameter: 27mm Water Pump length: 52mm Drain Hole: 4mm Weight: 70g	4
	Motor Control Shield	Configurable motor power supply via onboard jumper when using 5V motor power supply : drives four 5V DC motors at one time when using adjustable motor power supply : drives two 1.25V-6.45V DC motors at one time (9V external power supply is required) Onboard two dual H-bridge driver L293D each L293D can drive 2 DC motors or 1 stepping motor at one time totally 4 channel H-bridge, with 600mA	8
	High quality stepper motor (5V) with driver	Diameter: 28mm Rated Voltage: 5V Idle In-traction Frequency :>600Hz Idle Out-traction Frequency : >1000Hz Number of phase: 4 Speed Variation Ratio: 1/64 Stride Angle: 5.625° /64 In-traction Torque >34.3mN.m(120Hz) Self-	10

		positioning Torque >34.3mN.m Friction torque 600-1200 gf.cm Pull in torque 300 gf.cm Noise: <40dB (120Hz, No load, 10cm) Suitable for guide wind deflector, portable air conditioner valve, etc	
SM S4306R 6.2kg.cm Continuous Rotation Plastic gear Servo		Specifications: Model: SM-S4306R Size: 41.3x20.7x40.2mm / 1.63x0.81x1.58 in Weight: 41g JR Interface 360° rotating robot servo	10
DC Motor with Gearbox 100RPM		100RPM 12V DC motors with Gearbox 12V DC Supply 6mm shaft diameter with threaded hole & screw Same size motor available in various RPM 2kgcm torque No-load current = 60 mA(Max), Load current = 250 mA(Max)	10
4 Channel 5V Relay Module with Optocoupler Isolation		5V 4-Channel Relay interface board, and each one needs 15-20mA driver current. Optical isolation on each channel. Standard interface that can be controlled directly by microcontroller (Raspberry Pi, Arduino, 8051, AVR, PIC, DSP, ARM, ARM, MSP430) TTL logic. Equipped with high-current relay: AC240V 10A / DC28V 10A. Indication LEDs for relay output status. Equipped with screw holes for easy installation.	4
5V 4 Channel OMRON SSR High Level Solid State Relay Module 250V 2A		Specifications: 5V Omron solid state relay 240V 2A, output with resistive fuse 240V 2A Description: Input Power: 5V DC (160mA) Input control signal voltage: (0-2.5V state low relay OFF) (3.3-5V state high relay ON)	4
4x4 Matrix Membrane Switch Keypad		8 pins connector White sticker can peel of for adhesive mounting Maximum circuit rating 35Vdc, 100mA Insulation resistance: 100M ohm, 100V	4
1x4 Key Matrix Membrane Switch Control Keypad		Contact bounce: <= 5ms Life expectancy: 1 million closures Transparent cable length: 83mm (approximate) Pad size(LxW): 76x69mm (approximate) This 4-button keypad provides a useful human interface component for microcontroller projects. Convenient adhesive backing provides a simple way to mount the keypad in a variety of applications.	4

		Key Features: Ultra-thin design & adhesive backing provides easy integration to any project Excellent price-performance ratio Easy communication with any microcontroller	
7	**Display Boards - BOM**		
	0.96" OLED Display Module - SPI/I2C - 128X64 - 6 Pin (Blue)	OLED Driver IC: SSD1306 Resolution: 128 x 64 Visual Angle: >160° Input Voltage: 3.3V ~ 6V Compatible I/O Level: 3.3V, 5V Mini Size: 2.7 x 2.8cm Only Need 2 I/O Port to Control Pixel Color: Yellow (128x16 pixels) Blue (128x48 pixels)	4
	7 inch Capacitive Touch Screen for Raspberry Pi (1024x600)	1024×600 high resolution Capacitive touch control Supports Raspberry Pi (Including Pi 3) , comes with Raspbian driver (works with your Raspbian directly), and Ubuntu image Supports Banana Pi / Banana Pro, comes with Lubuntu, Raspbian images Supports BB Black, comes with Angstrom image HDMI interface for displaying, USB interface for touch control Back light control to lower power consumption 1x 7inch HDMI LCD (C) 1x HDMI cable 1x USB type A plug to micro B plug cable 1x RPi screws pack (4pcs)	2
	4.3Inch HDMI Touch screen Lcd	Compatible and Direct-connect with any revision of Raspberry Pi (except the Pi 1 model B or Pi Zero, which requires an HDMI cable) Drivers provided (works with your own Raspbian/Ubuntu directly) HDMI interface for displaying, no I/Os required (however, the touch panel still needs I/Os) Backlight can be turned off to lower power consumption	2
	2.8 inch Arduino Touch LCD Shield	Resistive touch screen TFT LCD, 2.8 inch, 320×240 resolution Standard Arduino interface, compatible with: LCD Type: TFT LCD Interface: SPI LCD Controller: HX8347D Touch Screen Type: Resistive Touch Screen Controller: XPT2046 Colors: RGB, 65K colors Resolution: 320x240 (Pixel) I/O Voltage: 3.3V/5V	2

	200x200, 1.54inch E-Ink display module	Operating voltage: 3.3V Interface: 3-wire SPI, 4-wire SPI Outline dimension: 48mm × 33mm Display size: 27.6mm × 27.6mm Dot pitch: 0.138 × 0.138 Resolution: 200 × 200 Display color: black, white Grey level: 2 Partial refresh time: 0.3s Full refresh time: 2s Refresh power: 26.4mW(typ.) Standby power: <0.017mW Viewing angle: >170°	1
	20x4 Character LCD Module (Green)	Characters: 20 Lines: 4 Input Voltage: 5V DC	4
8	**Lab Instruments & Components - BOM**		
	40 Watt Glue Gun	Watt: 40 approximate or nearest higher value. Input Power : 220V AC	1
	Wire Stripper & Cutter	Work as a cutter as well as stripper. High quality material handle cover to provide you good grip while working. Locking system at handle of tool. Provide you safe operation.	2
	Bosch Screwdriver Set (38-Pieces)	Interchangeable Combination Screwdriver Set	1
	40 Pins Single Row Female Headers	Female headers	10
	Berg Strip: 1x40 Break Away Pin Male Headers - Straight	Pin Style: Square Number of Pins: 40 Pin Spacing: 0.1' (2.54 mm)	10
	Double Row 2x20 Pins 2.54mm Straight Female Headers	Specifications: 2.54 mm Plastic body height: 8.5 mm Stitch length: 3 mm Contacts: copper alloy	10
	Single Row 2.00mm 4 Pin Straight Female Headers	1x4-FEMALE-2.00MM .	1
	Precision PCB Hand Drill	A high quality precision pcb hand drill with drive shaft extension for smooth and powerful drilling	
	Hot Melt Glue Sticks	Hot Melt Glue Sticks	5
	5 x 7 cm General Purpose Solderable Perf Board PCB	Holes Distance: 2.54 mm approx All sizes or length are approximate and may vary +/- 20%	10
	6 x 8 cm Double Sided Tin Coated Solderable FiberGlass Perf Board PCB	Name: 6 x 8 Quality CNC fiberglass Universal circuit board Board material: glass fiber External dimensions: 6 x 8 cm (cm) Hole to hole hole spacing: 2.54MM Aperture: 0.95MM Plate thickness: 1.6MM	10

Soldering Iron Kit	Soldering Iron Kit with Adjustable Temperature Welding Iron, 5pcs Tips, Desoldering Pump, 2pcs Tweezers, Tin Wire Tube, Stand and 6pcs Aid Tools in PU Carry Bag	5
Heat Shink Tube Sleeves	1mm Colour Combinations of Red / Blue / Yellow Polyolefin HeatShrink-Tube Sleeve (Red+Yellow, 2 meters+ 2 meters)	5
Miscellaneous	Resistors + Capacitors + Prototyping Hardware	1

(Following details are required to be submitted by bidder about quoted item in respect to above technical specifications)

Name of the Equipment _____

Name of the Manufacturer _____

Make of the Equipment _____

Model Number _____

Country of Origin _____

Place: **Signature of Authorized Person**

Date: **Designation   Seal**

FORMAT FOR THE SUBMISSION OF RATES – PRICE BID

Name of the contractor/ Firm _____

Name of the Equipment _____

Name of the Manufacturer _____

Make of the Equipment _____

Model Number _____

Country of Origin _____

1. Items of Foreign Origin:

Sr. No.	Item with code number	Qty.	Currency	Price
	Total Price			
	*GST (if applicable)			
	**Custom duty (if applicable)			
	Packing forwarding, freight and insurance including all taxes etc.			
	Total (1)			

(In Words _____ Only)

2. Items of Indian Origin:

Sr. No.	Item with code number	Qty.	Price (INR)
	Total Price		
	*GST		
	Packing forwarding, freight and insurance including all taxes etc.		
	Total (2)		

(In Words _____ only)

3. AMC/CMC/Extended Warranty (Whichever is applicable as per Annexure I):

Sr. No.	Item with code number	Price (INR)
1.	CMC/AMC Charges for 1st year after the expiry of warranty period.	
2.	CMC/AMC Charges for 2nd year after the expiry of warranty period.	
3.	CMC/AMC Charges for 3rd year after the expiry of warranty period.	
	Total price	
	GST	
	Total (3)	

(In Words _____ only)

This is certified that the rates quoted above are not more than the rates charged from any other Institution/Department/Organization.

Place: **Signature of Authorized Person**

Date: **Designation**

Seal

i. **The University being a public funded and non-commercial research institution is exempted from paying Custom Duties vide notification no. 51/96-custom and the provision of the said notification will apply. University will provide DSIR certificate, Custom Duty Exemption Certificate (CDEC), road permit and other necessary certificates. Since the University does not have any Clearing Agent, the Supplier is required to get the consignments cleared on behalf of the University. The admissible Custom Duty will be reimbursed to the Supplier on production of documentary evidence of payment of Custom Duty. The equipment should come straight from the nearest Airport to the University and not be taken to warehouse/ Godown. In case of inspection by the Customs, legible seal of Custom Officials should be present along the tearing of consignment.

ii. *Central University of Jammu is eligible for payment of GST @ 5% in terms of Govt. Notification No. Notification No. 47/2017-Integrated Tax (Rate), dt. 14th November, 2017 and Notification No. 10/2018- Integrated Tax (Rate), the 25th January, 2018 for which necessary certificates will be provided by the University.

iii. University will also provide Certificate under SRO 129 of 2012, if applicable, for exemption of entry tax on scientific instruments.

iv. In case of offers received in INR as well foreign currencies, evaluation shall be based on all inclusive landed cost. Exchange Rates of foreign currency will be taken from RBI website as on opening of the technical bids for the purpose of conversion in Indian rupees. AMC charges will be taken into consideration for price comparison.

v. **Manufacturer's original price list must be submitted through online mode only & uploaded alongwith price bid.**

FORMAT FOR NON-BLACKLISTING OF SUPPLIER

I/ We _____Manufacturer/partner/Authorized Distributor/Agent (strike out which is not applicable) of (Supplier) _____ do hereby declare and solemnly affirm that the individual/firm/company is not black-listed by the Union/State Government/Autonomous body.

Deponent

Address _____

I/ We hereby solemnly declare and affirm that the above declaration is true and correct to the best of my knowledge and belief. No part of it is false and nothing has been concealed.

Deponent

Dated: _____

(Note: To be furnished on non-judicial stamp paper duly attested by the Oath Commissioner.)

Annexure-F

PROFORMA FOR USER LIST

Sl. No.	Name & full address of purchaser	Purchase Order No. & Date	No. of Units (Qty.)	Model No. with Date of Installation	Contact person with cell, phone and email id

Place: **Signature of Authorized Person**

Date: **Designation**

                                                       Seal

COMPLIANCE SHEET

Sl. No.	Specifications as per tender (point wise)	Compliance of the quoted model	Compliance of alternate model, if any	Remarks (Deviations)

Signature and seal of the Manufacturer/Bidder

Date: _____

Place: _____

Note: Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "No Deviations"

(Furnishing of wrong statement may lead to debar from the future purchases of CENTRAL UNIVERSITY OF JAMMU)

CERTIFICATE OF WARRANTY

a) I/We certify that the warranty shall be for a period of **12 months**, starting from the date of satisfactory installation, commissioning and handing over of the equipment and of the works conducted therewith covered under the supply order in working order. During the warranty period, I/we shall provide free "after sale service" and the replacement of any part(s) of the equipment or rectification of defects of work of the equipment will be free of cost. The replacement of the parts shall be arranged by us, at our own cost and responsibility. We undertake that the above warranty shall begin only from the date of satisfactory and faultless functioning of the equipment for 30 days at CENTRAL UNIVERSITY OF JAMMU premises. The benefit of change in dates of the warranty period shall be in the interest of the University.

b) During the warranty period, we shall provide at least 3 preventive maintenance visits.

c) All complaints will be attended by us within 2 weeks of receipt of the complaint in our office.

d) In case the replacement /repair of defective material is not carried out within 02 weeks of intimation of defects, then we shall pay interest @ 12 per cent per annum on the value of each complete operational unit of equipment beginning from the date of becoming defective up to date of its re-commissioning after replacement/repair.

e) We certify that the equipment being/quoted is the latest model and that spares for the equipment will be available for a period of at least 5 years and we also guarantee that we will keep the organization informed of any update of the equipment over a period of 5 years.

f) We guarantee that in case we fail to carry out the maintenance within the stipulated period, CENTRAL UNIVERSITY OF JAMMU reserves the right to get the maintenance work carried out at our risk, cost and responsibility after informing us. All the expenses including excess payment for repairs/maintenance shall be adjusted against the Performance Bank Guarantee. In case the expenses exceed the amount of Performance Bank Guarantee, the same shall be recoverable from us with/without interest.

g) We shall try to repair the equipment at CENTRAL UNIVERSITY OF JAMMU premises itself. However, the equipment will be taken to our site on our own expenses in case it is not possible to repair the same at CENTRAL UNIVERSITY OF JAMMU. We shall take the entire responsibility for the safe custody and transportation of the equipment taken out for repairs till the equipment is rehabilitated to the CENTRAL UNIVERSITY OF JAMMU after repair Any loss of equipment or its accessories under our charge on account of theft, fire or any other reasons shall be at our sole risk and responsibility which will be compensated to CENTRAL UNIVERSITY OF JAMMU for such losses at the FOR value for the damaged/lost equipment/part, including accessories.

h) We undertake to perform calibration after every major repair/breakdown/taking the equipment for repair out of CENTRAL UNIVERSITY OF JAMMU premises.

i) In case of extended warrantee, we undertake to carry out annual calibration of the equipment.

j) We guarantee that we will supply spare parts if and when required on agreed basis for an agreed price. The agreed basis could be an agreed discount on the published catalogue price.

k) We guarantee to the effect that before going out of production of spare parts, we will give adequate advance notice to you so that you may undertake to procure the balance of the life time requirements of spare parts.

l) We guarantee the entire unit against defects of manufacture, workmanship and poor quality of components.

Place: **Signature of Authorized Person**

Date: **Designation**

                Seal

ANNUAL MAINTENANCE CONTRACT

1. During the service contract period, the firm shall provide at least 3 preventive maintenance visits per year and attended to all emergent and break-down calls.

2. The service contract charges must be quoted separately for each year strictly as under and quoting of rates in ambiguous terms or in percentage terms etc. shall render the tender liable to rejection:

3. Rates:
Rate for 1st year after the expiry of warranty period.= _____ (Rupees in words).
Rate for 2nd year after the expiry of warranty period.= _____ (Rupees in words).
Rate for 3rd year after the expiry of warranty period.= _____ (Rupees in words).

4. The service contract charges should be quoted only for services. The cost of any replacement parts/components shall be paid by the CENTRAL UNIVERSITY OF JAMMU . University will not bear any travel cost; stay of service personal. Service provider/Contractor will arrange spare parts/components and the cost of the same shall be paid by University.

5. All the complaints will be attended by the firm within a week of the dispatch of the complaint to their office. In case there is delay of more than a week in attending to a complaint then the number of days in excess of the permissible response time shall be counted and fine equivalent to double the service contract charges shall be recovered from the firm on per day basis.

6. The right to accept the reason(s) for delay and consider reduction or waive off the penalty for the same shall be at the sole discretion of Vice Chancellor, CENTRAL UNIVERSITY OF JAMMU .

7. We undertake to carry out annual calibration of the equipment.

8. We undertake to perform calibration after every major repair/breakdown/taking the equipment for repair out of CENTRAL UNIVERSITY OF JAMMU premises.

9. The replaced parts shall remain the property of the CENTRAL UNIVERSITY OF JAMMU .

10. All service contract charges will be invoiced twice in each year. The payment of the invoice will be made afterwards.

11. No price revisions will be accepted by the CENTRAL UNIVERSITY OF JAMMU during the entire tenure of the service contract agreement.

Place: **Signature of Authorized Person**

Date: **Designation**

                                                    Seal

FORMAT FOR MANUFACTURER'S AUTHORISATION CERTIFICATE

To,

The Registrar
Central University of Jammu,
Rahya-Suchani (Bagla), Distt. Samba, Jammu, J&K-181 143

Sub: Tender for "_____".

Dear Sir,

We, _____, who are established and reputed manufacturers of _____, having factory/office at_____, hereby authorize M/s _____ [name & address of agents/distributors] to bid, negotiate and conclude the order with you for the above goods manufactured by us.

We shall remain responsible for the tender/Agreement negotiated by M/s _____, jointly and severely. No company or firm or individual other than M/s _____ are authorized to bid, negotiate and conclude the order in regard to this business against this specific tender as for all business in the entire territory of India.

An agency commission of _____% included in the FOR price is payable to M/s _____. We hereby extend our full guarantee and warranty as per the terms and conditions of tender for the goods offered for supply against this invitation for bid by the above supplier.

1. _____
2. _____

*specify in detail manufacturer's responsibilities+ the services to be rendered by M/s_____ are as under:

i) _____
ii) _____

[Specify the services to be rendered by the agent/distributor] In case duties of the agent/distributor are changed or agent/ distributor is changed it shall be obligatory on us to automatically transfer all the duties and obligations to the new Indian Agent failing which we will ipso-facto become liable for all acts of commission or omission on the part of new Indian Agent/ distributor.

Yours faithfully,
[Name & Signature]

For and on behalf of M/s. _____ [Name of manufacturer]

Note: This letter of authorization should be on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer.

APPLICATION FORM

To be Filled Completely and Signed

1. Contact details of the head office of proposing firm:
    a. Name-
    b. Address-
    c. Tel. No.-
    d. Fax -
    e. Email -
    f. Web site (If any)

2. Name and full address of local office of proposing firm nearest to Jammu:
    a. Name-
    b. Address-
    c. Tel. No.-
    d. Fax -
    e. Email -
    f. Web site (If any)

3. Name and full address of manufacturer:
    a. Name-
    b. Address-
    c. Tel. No.-
    d. Fax -
    e. Email -
    f. Web site (If any)

4. Name of advising bank and account number:

5. SWIFT Code:

6. PAN, GST and TAN Number:

7. Manufacturing type (tick mark):
    i. Import
    ii. Indigenous
    iii. Both

8. Country(s) of origin:

9. Any other relevant information:

Annexure-L

DECLARATION BY SUPPLIER

 "It is certified that I/we have carefully read and understood the entire general, special as well as specific

terms and conditions of these documents and agree to abide by all of these. All the information and

commitments provided with the bids are truthful and binding on the firm."

Place: **Signature of Authorized Person**

Date: **Designation**

                                                               Seal

CHECK LIST

(TO BE FILLED COMPLETELY & PLACED IN ENVELOPE-I)

Sr. No.	Points to be verified	Yes/ No
1	Duly filled and signed Annexure: A to L attached.	
2	EMD (NSIC Certificate attached, if exempted).	
3	Photocopy of PAN, GST and TAN card.	
4	Copy of latest income tax return certificate.	
5	Spare part availability certificate.	
6	Certificate indicating country of manufacture.	
7	Site Preparation (Pre installation requirements) List	
8	Copy of "General Terms and Conditions" signed and stamped on each page.	
9	Affidavit duly attested by the Oath Commissioner/Executive Magistrate regarding non-black listing of supplier attached.	
10	In case of authorized agent/distributor, certificate/authorization letter in original, issued by the manufacturer for the tender, attached.	
11	Catalog of the equipment attached.	
12	In case of foreign suppliers quoting directly, name of Indian agent mentioned.	
13	Performance certificate issued by the existing users as mentioned in Annexure-F	

Place: **Signature of Authorized Person**

Date: **Designation**

                                                        Seal

INSTRUCTIONS TO BIDDERS FOR E-TENDER:

Special Instructions for e-Tender. Submission of online Bids is mandatory for this Tender.

For conducting electronic tendering, CUJ is using the portal https://cujammu.euniwizarde.com of M/s ITI Ltd, a Government of India Undertaking.

1.0 Tender Bidding Methodology:
The offer should be submitted through e-tendering mode in the website https://cujammu.euniwizarde.com containing two e-bid viz. Technical and Financial Bid. The Bids will be uploaded along with all signed and scanned documents those are required for particular tender.

.**Digital Certificate**:
It is mandatory for all the bidders to have class-III Digital Signature Certificate – Signing + Encryption (in the name of person who will sign the Bid) from any of the licensed Certifying Agency (Bidders can see the list of licensed CA's from the link www.cca.gov.in) to participate in e-tendering.

2.0 Registration:
To participate in the e-tendering submission, it is mandatory for applicants to get registered their firm/company in e-tendering portal of ITI. https://cujammu.euniwizarde.com to have user ID & password from M/s ITI Ltd., The Annual registration charges for vendors/suppliers are Rs.2000/+18%GST-per annum (Pay Online). The procedure for the registration is as under:

1) Go to the website https://cujammu.euniwizarde.com In the home page, click on "Registration"

2) In the Vendor Registration form, vendor has to fill up the all mandatory applicant details. After submission of registration form, you will get the verification link on your registered mail id, after verification you log in your account with your user id and password and complete the all activity related to registration etc. Document uploading, paid registration fee, after completion of registration payment, you need to send your acknowledgement copy on our held desk mail id helpdeskeuniwizarde@gmail.com ewizardhelpdesk@gmail.com for activation of your account.

3.0 SEARCHING FOR ONLINE TENDER DOCUMENTS
There are various search options built in the e-tender Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Item/work id, Title, Date, etc.

Once the bidders had selected the tenders in which they are interested, bidder can pay the processing fee **Rs. 1527.00 (NOT REFUNDABLE)** by Net-banking / Debit / Credit card then you may download the required documents / tender schedules, Bid documents etc. Once you pay both fees, tenders will be moved to the respective "Register" Tab. This would enable the e-tender Portal to intimate the bidders through e-mail in case there is any corrigendum issued to the tender document.

Please feel free to contact ITI Helpdesk (as given below) for any query related to e-tendering.

1. **Helpdesk landline No: 011-49606060**

2. **Mr. Varun Tomer   +919205898229**

3.   **Mr. Birendra Kumar +919205898228**