

TENDER

Enq. No. KUDSIT/0016-5/2022-23

Date: 11/08/2022

Due on: 22/08/2022 3pm

On behalf of Kerala University of Digital Sciences, Innovation and Technology (DUK), the Vice Chancellor invites offers for “Supply, Installation and Commissioning of equipment for the Connected System Lab with following specifications from experienced and qualified vendors.

#	Item	Description	Compliance (Yes/ No)
1	Grove Starter Kit Plus - IoT Edition, Arduino compatible development board	Consisting of these items one each (Grove- Button, Grove - Sound Sensor, Grove - 3-Axis Digital Accelerometer($\pm 1.5g$), Grove - Touch Sensor, Grove - Light Sensor, Grove - Temperature Sensor, Grove - Rotary Angle Sensor(P), Grove - Pieze Vibration Sensor, Grove - LCD RGB Backlight , Grove – Buzzer, Grove - Green LED, Grove - Blue LED, Grove - Red LED, Gear Stepper Motor with Driver, Grove Base Shield V2, 12V 2A American Standard AC/DC Power Adaptor, British Standard Plug Converter, European Standard Plug Converter, Australian Standard Plug Converter, Micro USB Cable)	
2	Grove - Encoder	Sensors & Actuators	
3	SparkFun MEMS Microphone Breakout - INMP401 (ADMP401)	Sensors & Actuators	
4	Digital Speaker Module - DFR FIT0449	Sensors & Actuators	
5	Non-Invasive Current Sensor - 30A	Sensors & Actuators	
6	ACS711LC Current Sensor Carrier -12.5 to +12.5A	Sensors & Actuators	
7	Adafruit CCS811 Air Quality Sensor Breakout - VOC and eCO2	Sensors & Actuators	

8	Grove - Dust Sensor	Sensors & Actuators	
9	Grove - Temperature&Humidity Sensor (High-Accuracy & Mini)	Sensors & Actuators	
10	7 in 1 Soil Tester, 5Pin Soil PH NPK Temperature and Humidity EC Sensor & soil pH	Sensors & Actuators	
11	Lopy4	The LoPy4 is a quadruple bearer MicroPython enabled development board (LoRa, Sigfox, WiFi, Bluetooth) perfect enterprise grade IoT platform	
12	Pytrack 2.0 X	Pycom multi-network modules with location services supporting GPS, GLONASS, Galileo, QZSS	
13	Pycom - Pyscan	Expansion Boards	
14	Pycom Expansion Board 3.0	Base Board for Lopy	
15	Antennas LoRa/Sigfox Antenna for Pygate EU and Pygate US / APAC	Antenna - External for Lopy	
16	Dragino Arduino LoRa Shield v1.4 - Supporting 868Mhz	LoRa Shields	
17	LoRa/GPS Shield For Arduino , Supporting 868Mhz	LoRa Shields	
18	Raspberry Pi LoRa/GPS HAT - supporting 868Mhz	LoRa Shields	
19	PYNQ-Z1: Python Productivity for Zynq-7000 ARM/FPGA SoC	FPGA Kit	
20	Bluetooth Module hc 05 With TTL interface	Bluetooth Transceivers	
21	BLE Module HM 10	BLE Transceivers	
22	Zigbee Development Tools - 802.15.4 Zigbee Mesh Kit	Zigbee Development Tools	

	WorldWide (2.4Ghz , Xbee Grove Development Kit)		
23	NVIDIA Jetson Nano module and carrier board	CPU :Quad-core ARM A57 @ 1.43 GHz,GPU: 128-core Maxwell, Memory: 4 GB 64-bit LPDDR4 25.6 GB/s	

Pre-Qualification Requirements

1. The quotation has to be supported with the printed technical leaflet/literature of the quoted model of the item by the quoting party/manufacturer and the specifications mentioned in the quotation must be reflected /supported by the printed technical leaflet/literature. Therefore, the model quoted invariably is highlighted in the leaflet/literature enclosed with the quotation.
2. Parties who have supplied this equipment or equivalent equipment with same or higher specifications to at least two reputed Organizations /R&D institutes/Academic Institutions/Incubators in India with such equipment working satisfactorily can only be considered qualified. List of two such installations with contact details shall be provided. The Purchaser may take the feedback regarding the performance of the equipment from the organization /institution where the installation is done and based on this feedback the offer can be rejected without assigning any reasons and without giving an opportunity for clarification
3. The bidder must be an Original Equipment Manufacturer (OEM) or authorized distributor/supplier having a direct purchase and support agreement with the OEM. In case the bidder is a dealer or a distributor a valid letter of **authorization from the OEM** shall be submitted along with the bid.
4. OEM should have operation in India for minimum 3 years and should have experience in providing service support.
5. If Supplier and OEM are two different entities, supplier should have local office in India for minimum 3 years and should have proven experience in extending service support for the offered equipment. Necessary documents for verifications of the same shall be submitted along with the bid.
6. If Supplier and OEM are two different entities, supplier should have local office in India. Necessary documents for verifications of the same shall be submitted along with the bid.
7. The bidder should have an average annual turnover of at least INR 12 lakhs during the last 3 financial years. The bidder should submit the audited balance sheet for the last 3 financial years to validate this requirement.
8. Startup & MSME relaxations- Govt directions/ circulars will be followed

Terms & Conditions

- Tender Documents shall be available only on the Internet and shall not be available for sales elsewhere. Cost of tender document, **Rs.1035/-** as applicable to be submitted along with the tender.
- Delivery at the store should strictly be completed within the stipulated period of delivery i.e. four weeks from issue of purchase order.
- Supplier will have to pay penalty on non-delivery after expiry of delivery date @ 0.5% per week subject to maximum of 10%.
- The tenderer must pay earnest money along with his tender as given in the notice inviting tenders failing which the tender will be summarily rejected. Earnest Money Deposit of **Rs. 4387/-** be paid as demand draft favoring The Vice Chancellor, Kerala University of Digital Sciences, Innovation and Technology payable at Trivandrum. No interest shall be paid by DUK on the Earnest Money Deposited by the tenderer. EMD of unsuccessful bidders will be returned without any interest, upon finalization of contract or on expiry of validity of offer. EMD of the successful tenderer will be returned without any interest, after receipt of performance security.
- Security deposit/ Performance Security: The selected tenderer shall deposit an amount equal to 5% of the value of contract within 14 days from the date of Purchase Order. EMD will be forfeited if security deposit is not remitted as mentioned above. The security deposited by the successful tendered will be retained towards the retention amount and will be released after warranty period.
- Supply at Kerala University of Digital Sciences, Innovation and Technology, Trivandrum
- Technical literature/ hand book /data sheets if any etc. must be sent along with the bid.
- DUK reserves the right to cancel the order in case the item are not supplied within the stipulated period or non - fulfillment of contractual obligations.
- The courts at Thiruvananthapuram shall have jurisdiction over any dispute regarding this tender.
- DUK shall make payment within 30 days of satisfactory installation and acceptance of the items supplied and issue of warranty certificate. Any condition for payment of advance shall not be acceptable to IIITMK. In case of any defects to the materials supplied by the bidder, it should be replaced prior to release of the payment.
- Quoted rate: The quoted rates shall be inclusive of all taxes and also the bidder shall include charges like GST, freight, handling, loading, unloading, insurance premiums and placement at the facility and commissioning and installation. No compensation will be paid in case of any upward revision in the statutory taxes and levies or introduction of new taxes and levies.
- Firm period of Tender will be 90 days from the date of notification.

- Last date of receipt of filled in Quotations is 22/08/2022, 3 pm & Bid opening on same day at, 3.30 pm
- DUK reserves the right to accept any quotation and to reject any or all quotations.

Place: Technocity

Date: 11/08/2022

Vice Chancellor

DUK
Financial Bid
Tender Enq. No._____

Total amount for providing Supply, Installation and Commissioning of equipment for the Connected System Lab at DUK as per the terms and conditions contained in the Tender document shall be Rs. _____ (Rupees. _____) including all taxes.

#	Item	Qty	Amount (Incl of all taxes)
1	Grove Starter Kit Plus - IoT Edition, Arduino compatible development board	4	
2	Grove – Encoder	2	
3	SparkFun MEMS Microphone Breakout - INMP401 (ADMP401)	2	
4	Digital Speaker Module - DFR FIT0449	2	
5	Non-Invasive Current Sensor - 30A	2	
6	ACS711LC Current Sensor Carrier -12.5 to +12.5A	2	
7	Adafruit CCS811 Air Quality Sensor Breakout - VOC and eCO2	2	
8	Grove - Dust Sensor	2	
9	Grove – Temperature & Humidity Sensor (High-Accuracy & Mini)	2	
10	7 in 1 Soil Tester, 5Pin Soil PH NPK Temperature and Humidity EC Sensor & soil pH	2	
11	Lopy4	10	
12	Pytrack 2.0 X	5	
13	Pycom - Pyscan	5	
14	Pycom Expansion Board 3.0	5	
15	Antennas LoRa/Sigfox Antenna for Pygate EU and Pygate US / APAC	10	

16	Dragino Arduino LoRa Shield v1.4 - Supporting 868Mhz	4	
17	LoRa/GPS Shield For Arduino , Supporting 868Mhz	4	
18	Raspberry Pi LoRa/GPS HAT - supporting 868Mhz	4	
19	PYNQ-Z1: Python Productivity for Zynq-7000 ARM/FPGA SoC	2	
20	Bluetooth Module hc 05 With TTL interface	10	
21	BLE Module HM 10	10	
22	Zigbee Development Tools - 802.15.4 Zigbee Mesh Kit WorldWide (2.4Ghz , Xbee Grove Development Kit)	5	
23	NVIDIA Jetson Nano module and carrier board	2	

[To be submitted in letter head of the supplier

BID FORM

To,

Kerala University of Digital Sciences, Innovation and Technology
Technocity Campus, Mangalapuram
Thiruvananthapuram 695 317

Dear Sir,

Sub: Bid form
Ref: KUDSIT/...../2022

1. Having examined the conditions of tender contract, the receipt of which is hereby duly acknowledged. i/we undersigned, offer to supply all hardware & software and execute all works in conformity with tender specifications referred above and also to the said terms & conditions from the sum shown in the commercial bid(s) attached herewith and made part of this bid.
2. I / We undertake, if our Bid is accepted to complete delivery & commissioning of all Items specified in the contract within 30 days calculated from the date of issue of your purchase order/LOI.
3. We understand that you are not bound to accept the lowest or any bid, you may receive.
4. I / We affirm that I / We have enclosed the acceptance of all terms and conditions and also all brochures detailing the technical specification of the items quoted by me/us.
5. I / We hereby confirm that all the items supplied are in proper working condition and tested successfully.
6. The tender document for the works mentioned above have been obtained by me from the URL ***https://duk.ac.in***, the official website of Digital University and I / we hereby certify that I / we have read the entire terms and conditions of the tender document, which shall form part of the contract agreement and I / we shall abide by the conditions / clauses contained therein.
7. My /our GST & PAN Numbers are as follows.

GST Registration Number.

PAN Number.

MSME Details: Yes/No (enclose details)

8. Dated thisday of..... 2022.

Duly authorized to sign the bid for and on behalf of -----

[To be submitted in letter head of the supplier]