

KERALA UNIVERSITY OF DIGITAL SCIENCES, INNOVATION AND TECHNOLOGY

(Established by Govt. of Kerala Vide Ordinance No: 9 of 2020 dated 18/01/2020)

Technopark Phase IV Campus, Kuracode Mangalapuram, Thonnakkal P O

Thiruvananthapuram – 695 317, Kerala

Ph: 0471-2788000

E-mail: purchaseoffice@duk.ac.in

Website: <https://duk.ac.in>

TENDER NOTIFICATION

Tender Notification No. KUDSIT/ 024/Electronic Components/ 2024-25

On behalf of Kerala University of Digital Sciences, Innovation and Technology (KUDSIT) the Registrar invites offers for “**VARIOUS ELECTRONIC EQUIPMENTS : DECADE RESISTANCE BOX (4 Nos.), 4 CHANNEL POWER SUPPLY (1 No.) and DECADE CAPACITANCE BOX (2 Nos.)**” from experienced and qualified vendors.

Tender Due Dates		
1	Date for Availability of Tender Document on the website	11.06.2024
2	Last Date for Bid Submission	25.06.2024 03:00 P.M
3	The date and time for opening of Bid	25.06.2024 03:30 P.M
Tender Fee & EMD		
4	Tender fee (Inclusive of GST)	Rs. 1070/-
5	EMD	Rs. 4500/-

General Terms & Conditions

- Tender Documents shall be available only on DUK Website and not for sales elsewhere.
- **Cost of tender document, Rs.1070/- (Inclusive of GST) and EMD, Rs. 4500/- as applicable to be submitted along with the tender as demand draft favoring “The Registrar, Kerala University of Digital Sciences, Innovation and Technology payable at Thiruvananthapuram”** failing which the tender will be summarily rejected. 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 security and agreement in prescribed format.
- Start-up & MSME relaxations- Govt directions/ circulars will be followed.
- Supply at Kerala University of Digital Sciences, Innovation and Technology, Trivandrum should strictly be completed within the stipulated period of delivery i.e, within 30 days from issue of the purchase order.
- If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as penalty, a sum equivalent to 0.5 percent of the delivered price of the delayed Goods or unperformed Installation for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of 10 Percent.
- Security deposit/ Performance Security: The successful bidder shall furnish a security deposit of an amount equal to 5% of the value of contract on completion of delivery and

installation of item. Bid security/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.

- DUK reserves the right to cancel the order in case the items are not supplied within the stipulated period or non - fulfillment of contractual obligations.
- No advance payment. DUK shall make payment within 30 days of the satisfactory installation and acceptance of the item supplied and issue of warranty certificate, against the submission of invoice. In case of any defects to the materials supplied by the bidder, it should be replaced prior to release of the payment.
- 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 supply and deployment. No compensation will be paid in case of any upward revision in the statutory taxes and levies or introduction of new taxes and levies.
- A firm should submit only one proposal. If a firm submits more than one proposal, all such proposals shall be disqualified. Also, must comply with the General Conditions, Technical Specification (**Annexure I**) and Format/Requirements (**Annexure III & IV**) for Technical and Financial proposal.
- Price quoted should be valid for 90 days from the due date of the tender.
- DUK reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders.
- DUK reserves the right to get items from another source without any prejudice to bidders.
- DUK being the Purchaser, reserves the right to increase or decrease the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions at the time of award of Contract.
- The courts at Thiruvananthapuram shall have jurisdiction over any dispute regarding this tender.
- Interested bidders to submit their duly signed and sealed quotation along with all requisite documents as per prequalification in separate sealed envelope super scribing “**Tender reference No. and due date** “on or before due date **25.06.2024, 03:00 PM**.
- Late bids will not be considered.

Bid should be addressed to

**The Purchase section
Digital University Kerala, Technopark Phase IV,
Thonnakkal P O, Thiruvananthapuram – 695317, Kerala**

Place: Technopark Phase IV

Date: 11.06.2024

Registrar

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. (Enclose documentary evidence).
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. Necessary documents for verifications of the same shall be submitted along with the bid.
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. The bidder shall not be blacklisted by any Government agencies/ Utilities/ Departments at the time of bidding. Letter from authorized signatory on the letter head of SI regarding non-blacklisting.
7. The bidder should have an average annual turnover of at least INR 13 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.

Technical Bid (SCOPE OF SUPPLY)

Tender Enq. No. _____

[To be submitted in letter head of the supplier]

Item No. 1 : DECADE RESISTANCE BOX (4 Nos.)

Technical Specifications

Range: 0.01to 1M in 0.01steps

Decade - 0.01Ω, 0.1 1Ω, 10Ω, 100Ω, 1kΩ, 10kΩ, 100k Ω

Acc. % - ± 10%, ± 5%, ± 1%, ± 0.5%, ± 0.1%, ± 0.1%, ± 0.1%, ± 0.1%

Max Current (A)- 1A ,1A, 1A ,0.3A, 0.1A, 33mA, 10mA ,3mA

Zero Residual Resistance: Less than 90mΩ

Residual Resistance Stability: Less than 3 mΩ

Maximum Voltage: 250V DC/AC

RMS Power Rating: 1 watt per resistor

Temperature Coefficient: < 100 ppm per °C

General Specification

Dimensions: 200 x 75 x 110mm (215 x 100 x 120mm including protective boot)

Weight: 0.6kg (1kg including protective boot)

Optional Extras: Carry Case Calibration Certificates – traceable to NPL and UKAS

Item No. 2 : 4 CHANNEL POWER SUPPLY (1 No.)

Output Mode

No. of channel -4 (CH1, CH2, CH3, CH4)

Voltage - CH1(0~32V),CH2(0~32V), CH3(0~5V), CH4(0~15V).

Current - CH1(0~3A),CH2(0~3A),CH3(0~1A),CH4(0~1A)

Tracking Series Voltage- 0~64V

Tracking Parallel Current-0~6A

Constant Voltage Operation

Line Regulation $\leq 0.01\% + 3\text{mV}$

Load Regulation $\leq 0.01\% + 3\text{mV}$ (rating current $\leq 3\text{A}$) $\leq 0.02\% + 5\text{mV}$ (rating current $> 3\text{A}$)

Ripple & Noise $\leq 1\text{mVrms}$ (5Hz~1MHz)

Recovery Time $\leq 100\mu\text{s}$ (50% Load Change, minimum load 0.5A)

Constant Current Operation

Line Regulation $\leq 0.2\% + 3\text{mA}$

Load Regulation $\leq 0.2\% + 3\text{mA}$

Ripple & Noise $\leq 3\text{mArms}$

Tracking Operation(CH1,CH2)

Tracking Error $\leq 0.1\% + 10\text{mV}$ of Master(0~32V) No Load , with Load add load regulation $\leq 100\text{mV}$

Parallel Regulation Line: $\leq 0.01\% + 3\text{mV}$ Load: $\leq 0.01\% + 3\text{mV}$ (rating current $\leq 3\text{A}$)
 $\leq 0.02\% + 5\text{mV}$ (rating current $> 3\text{A}$)

Series Regulation Line: $\leq 0.01\% + 5\text{mV}$

Ripple & Noise Load: $\leq 100\text{mV}$

CH3 Operation

Output Voltage 5.0V, $\pm 5\%$

Output Current 5A

Line Regulation $\leq 3\text{mV}$

Load Regulation $\leq 5\text{mV}$

Ripple & Noise 1mVrms(5Hz~1MHz)

Meter

Voltage Resolution 100mV(*1)

Current Resolution 10mA(*1)

Setting Accuracy Voltage $\pm(0.1\%$ of reading +30mV) Current $\pm(0.3\%$ of reading +6mA)

Readback Accuracy Voltage $\pm(0.1\%$ of reading +30mV) Current $\pm(0.3\%$ of reading +6mA)

Insulation

Chassis and Terminal 20M Ω or above (DC 500V)

Chassis and AC Cord 30M Ω or above (DC 500V)

Environment Condition

Operation Temp 0~40°C

Storage Temp -10~70°C

Operating Humidity $\leq 80\%$ RH

Storage Humidity $\leq 70\%$ RH

Other

Power Source AC100V/120V/220V $\pm 10\%$; 230V(+10%~-6%); 50/60Hz

Dimensions & Weight 210(W)x 155(H) x 306(D) mm ; Approx. 7kg

Item No. 3 : DECADE CAPACITANCE BOX (2 Nos.)

Technical Specifications

Range	0 to 100 μ F
Resolution	10 pF steps (9 steps per decade)
Residual Capacitance	Approximately 55 pF

Decade	10 pF	100 pF	1 nF	10 nF	100 nF	1 μ F	10 μ F
Accuracy @ 1 kHz	1 % \pm 5 pF	1 % \pm 5 pF	1 % \pm 5 pF	1 %	1 %	1 %	5 %
Capacitor Type	Silver mica	Silver mica	Silver mica	Silver mica	Polycarbonate	Polycarbonate	Polyester
Max Voltage	300 V DC 200 V AC	300 V DC 200 V AC	300 V DC 200 V AC	100 V DC 72 V AC	100 V DC 72 V AC	100 V DC 115 V AC	63 V DC 50 V AC
Max Temp Coefficient	200 ppm/ $^{\circ}$ C	200 ppm/ $^{\circ}$ C	50 ppm/ $^{\circ}$ C	50 ppm/ $^{\circ}$ C	75 ppm/ $^{\circ}$ C	75 ppm/ $^{\circ}$ C	300 ppm/ $^{\circ}$ C
Power Factor @ 1 kHz	< 0.0025	< 0.0015	< 0.002	< 0.01	< 0.01	< 0.01	< 0.01
Insulation Resistance	> 50 G Ω	> 50 G Ω	> 50 G Ω	> 30 G Ω	> 30 G Ω	> 30 G Ω	> 30 G Ω
Dimensions	W 215 x H 100 x D 120 mm including protective cover (W 200 x H 75 x D 110 mm without)						
Weight	1 kg including protective cover (0.8 kg without)						

Annexure II

[To be submitted in letter head of the supplier]

Financial Bid

Tender Enq. No. _____

Total amount for providing of Various Electronic Components as per the terms and conditions contained in the Tender document shall be Rs. _____ (Rupees. _____) including all taxes.

SI. No	Description and Specification	Qty. (in Nos.)	Total Amount (incl GST)
1	DECADE RESISTANCE BOX	4	
2	4 CHANNEL POWER SUPPLY	1	
3	DECADE CAPACITANCE BOX	2	
	Total		

[To be submitted in letter head of the supplier]

BID FORM

To,

Kerala University of Digital Sciences, Innovation and Technology
Technopark Phase IV Campus, Thonnakkal P O
Trivandrum- 695 317

Dear Sir,

Sub: Bid form

Tender Reference Number:

1. Having examined the conditions of tender contract, the receipt of which is hereby duly acknowledged. I 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 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. I understand that you are not bound to accept the lowest or any bid, you may receive.
4. I affirm that I have enclosed the acceptance of all terms and conditions and also all brochures detailing the technical specification of the items quoted by me.
5. I 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 hereby certify that I have read the entire terms and conditions of the tender document, which shall form part of the contract agreement and I shall abide by the conditions / clauses contained therein.
7. My GST & PAN Numbers are as follows.

GST Registration Number.

PAN Number.

MSME Details: Yes/No (enclose details)

8. Dated this day of..... 2024.

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

[To be submitted in letter head of the supplier]

DECLARATION SHEET

I, hereby certify that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification. We further certified that our organization meets all the conditions of eligibility criteria laid down in this tender document.

We, further specifically certify that our organization has not been Blacklisted/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/Public Sector Undertaking in the last three years.	NAME & ADDRESS OF THE Vendor/ Manufacturer / Bidder
1. Phone	
2. Fax	
3. E-mail	
4. Contact Person Name	
5. Mobile Number	
6. TIN Number	
7. PAN Number	
8. Kindly provide bank details of the bidder in the following format: a) Name of the Bank: b) Account Number: c) Kindly attach scanned copy of one Cheque book page to enable us to return the EMD to unsuccessful bidder	

(Authorized Signature with Stamp)