



श्री माता वैष्णो देवी विश्वविद्यालय

Shri Mata Vaishno Devi University

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NIQ. No: SMVDU/SoECE/ 2024-25/ 518

Date: 04th September 2024

Notice Inviting Quotation

Sub: - Supply for ASK,FSK,BPSK,DBPSK MODULATOR AND DEMODULATOR TRAINER KITS

Quotations in sealed cover are invited for the Supply on behalf of Registrar SMVDU for the Head of the School of Electronics and Communication Engineering from reputed registered firms / Co-operative stores / Suppliers or Manufacturers having a valid GST Number and PAN Number, and for supplying rates for the bellow mentioned items/jobs.

Sr. No.	Details of the Item / job	Qty
1.	<u>Supply for ASK,FSK,BPSK,DBPSK MODULATOR AND DEMODULATOR TRAINER KITS</u> Detailed description in attached Annexure E	05

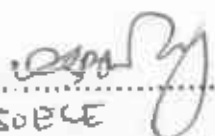
The sealed rate quotations should reach the Central Dispatch Section SMVDU latest by 16/09/2024 Monday, 2024 by 5:00 P.M...Any quotation received after the due date and time shall be summarily rejected. The sealed bids shall be opened on the next working day at 2:30 P.M. in the presence of authorized representatives, should they wish to attend the same.

Terms & Conditions

1. Rates should be written in figures as well as words. Delivery duration, GST rates, Delivery charges, or any other rates/charges, as applicable, and discount if any, should be clearly mentioned in the **Schedule of Quantities** [Format enclosed at Annexure 'A'].
2. The last date for receipt of sealed quotations in the Central Dispatch Section SMVDU latest by 16/09/2024 Monday, 2024 by 5:00 P.M...
3. The quotation / **Schedule of Quantities** should be on the letter head of the Company with reference no. and date on it, duly signed and stamped. The quotations should be submitted in sealed cover, addressed to the Head of School/Section, super-scribing the NIQ issue number & date and due date & time failing which the quotation is liable to be rejected.
4. Price quoted for the material / equipment shall be final and valid for 3 months.
5. Quotation without the authorization from the Company will not be accepted.
6. Delivery of material /equipment / stores mentioned in this quotation will be supplied by the supplier at SMVDU Stores at Kakryal, Katra-182320 (J&K) within four week after receiving the confirm order.

- 7. Rate offered must be for metric system of unit lengths or volume or weight.
- 8. Documents in support of valid GST and PAN Number also need to be enclosed with the quotation.
- 9. SMVDU reserves the right to increase the quantity mentioned in this NIQ or to split this quotation and place order on one or more suppliers/ bidders; as well as, the right to reject partly or completely, the quotations without assigning any reasons thereof.
- 10. The quotation should be complete in all respects and the firms shall give the Make/ Brand name offered for the items in the quotations. Wherever applicable, technical literature may please be enclosed along with quotation.
- 11. The payment will be released after the receipt of all and complete material/equipment with complete accessories in good working condition and its inspection by a duly constituted Inspection Committee.
- 12. Material/ equipment shall be guaranteed for the minimum period of 02 / 03 [strike off whichever is not applicable] years on site for satisfactory performance, workmanship and for the quality of material/ equipment supplied by the firm from the date of delivery/ installation.
- 13. Quotation received after DUE DATE & TIME will not be considered. SMVDU shall not be responsible for delays in postal transit.
- 14. All taxes / duties should be clearly mentioned in the Quotation.
- 15. PACKING: The equipments shall be packed suitably for dispatch directly to SMVDU at Suppliers expenses and supplier shall be responsible for any damage during transit.
- 16. AFTER SALES SERVICE: The offer shall clearly state full details of the after sales service facility available for the equipment.
- 17. JURISDICTIONS FOR DISPUTES: In all disputes, the decision of the Registrar, SMVDU, shall be final, conclusive and binding on the supplier. All disputes shall be subject to the jurisdiction of the courts in the District, Jammu.
- 18. DEVIATIONS: Deviations, if any from the specifications given which provide for improvement in the functioning of the equipments will be accepted. Such deviations and their advantages shall be clearly brought out in the tender / quotation.

The NIQ shall be available on the University Website: www.smvdu.ac.in For any query contact School/Section/Centre/Wing at the following email id: atulneel.sharma@smvdu.ac.in

Signatures: 
 Head of SOLE
 Date: 07/09/24



[To be provided on Firm/Company Letter Head]

Schedule of Quantities

Name of the Job: Supply for ASK,FSK,BPSK,DBPSK MODULATOR AND DEMODULATOR TRAINER KITS

Ref: NIQ Number:..... Date:

Sr. No.	Details of the Item	Qty	Rate per item	Amount in Rs.	GST rate	GST Amount in Rs.	Total Amount inclusive of GST in Rs.
1							
2							
3							
4							
Less: Discount if any							
Add: Delivery Charges if any							
Net Amount to be paid in Rs.							
Deliver Period							

Additional Terms and Conditions [if any]:
.....
.....

Bank details for RTGS Transfer

Name of the Account:
Account No.:
Account Type:
Bank Name:
Branch name and Address:
IFSC Code:

Signature & Stamp of the Supplier

ANNEXURE E

Technical Specifications for ASK, FSK, BPSK, DBPSK Modulator & Demodulator Trainer Kits

On-board Data Generator with various data patterns and Selectable data frequencies and data patterns, DDS technology based Carrier Generator, and SMD LED indicators

Modulation & Demodulation Techniques: ASK , FSK , BPSK , DBPSK

Internal Data Generator: Digital data with Data Pattern: 8-Bit, 16-Bit, 32-Bit, 64-Bit

Frequency: 2 KHz, 4 KHz, 8 KHz, 16 KHz, **Internal Carrier Generator:** Direct Digital Synthesized, **Carrier Signal:** Sine

Crystal Frequency: 8MHz

Included accessories Patch cord for connection, Mains cord: 1 no., Power Supply: 1 no,

Hard copy of technical/operating/experimental manual, 01 no's each

BNC to BNC probe 01 no's

BNC to Test Probe (crocodile) 01 no's

Scope of Learning

Study and analysis of ASK Modulation and Demodulation.

Study and analysis of FSK Modulation and Demodulation.

Study and analysis of BPSK Modulation and Demodulation.

Study and analysis of Differential encoder and decoder.

Study and analysis of DBPSK Modulation and Demodulation.

Teaching & Simulation software should also be provided with kit which should cover following topics

• Signals basics • Sampling & Reconstruction • Time Division Multiplexing • Pulse Code Modulation / Demodulation • Linear / Adaptive Modulation • Line Coding and Data Formatting: Unipolar NRZ-L, Unipolar NRZ-M, Unipolar RZ, Polar NRZ-L, Polar NRZ-M, Polar RZ, Polar Manchester, Biphase Manchester, Differential Manchester, Bipolar NRZ-L, Bipolar RZ, Bipolar RB, Bipolar AMI • Carrier Modulation Techniques: ASK, FSK, PSK, DPSK.

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