



No. MANUU/Dept. of Physics/F.25/2016-17/

Date:02.03. 2017

**Sub: MANUU – Dept. of Physics– Supply of glassware, consumables, Chemicals & Minor equipment – Limited Tender Enquiry – Reg.**

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The University intends to procure and glassware, consumables, Chemicals & Minor equipment at Dept. of Physics, School of sciences, MANUU, Gachibowli, Hyderabad as per the specifications mentioned below from the Govt. suppliers/original manufacturer of the Equipment / authorized dealer / distributor only. You are requested to submit quotations in sealed envelope along with prescribed EMD of Rs.3000/- (Exemption for registering with MSME NSIC, N.C.C.F, Kendriya Bhandar etc as per GoI norms will only be considered on production of documentary proof) as per Annexure-I on or before **13<sup>th</sup> March 2017** by 2.00 p.m. The tender will be opened on the same day at 2:00 p.m. in the presence of prospective bidders.

**Specification of Minor equipment:**

S.No	Material Description	Quantity Required
1.	1 <sup>st</sup> order High pass filter using Op-amp	01
2.	1 <sup>st</sup> Order Low pass filter using op-amp	01
3.	4-Bit comparator using 74LS85	01
4.	4-Bit D/A Converter (R-2R Method)	01
5.	4-Bit D/A Converters (Weighted Resist Method)	01
6.	A to D converter Trainer with digital meter	01
7.	Adders and Subtractors Trainer	01
8.	Bench top Digital meter DC 20 mA	01
9.	Bench top Digital meter DC 20V	01
10.	Colpitts Oscillator	01
11.	De Morgan's law, Half & Full Adder and Subtractor Trainer	01
12.	Differential Amplifier using op-amp. In Inverting & Non-inverting amplifiers	01
13.	e/m Apparatus C.R.T. mounted on a wooden stand, stand for magnets & Magnetometer box power supply to energies with working manual	01
14.	Energy Band Gap of a Semi conductor with builtin power supply, Thermo-Meter, oven and two digital meters	01
15.	Experiments with Fiber-Optic kit	01
16.	Hysteresis Loop using CRO – Hysteresis curve Trainer Board with Transformer core	01

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17.	Hysteresis Loop using Solenoids – Complete Set	01
18.	Integrator & Differentiator using 741	01
19.	Inverting & Non-Inverting Amplifier	01
20.	Kirchoffs laws Trainer	01
21.	Lamp & Scale outfit- All metal work on mains through step down Transformer fitted in the base, rack and pinion focus Perspex scale	01
22.	Light Emitting Diode Characteristics with two digital meters	01
23.	Logic Gates using ICs	01
24.	Operational Amplifier as Differentiator	01
25.	Operational Amplifier as Integrator	01
26.	Planks constant Apparatus (Photo Cell complete set with meters, Power supply and variable source 2 filters	01
27.	Power Factor of an Inductive Circuit	01
28.	Rectifiers and Filters Trainer	01
29.	Series and Parallel Resonance (LCR) Trainer	01
30.	Series and Parallel Resonance Kit	01
31.	Solar Cell characteristics with two digital meters & with variable light source	01
32.	Stefan's constant by Electrical Method (Trainer Board)	01
33.	Study of Logic Gates using discrete components	01
34.	Battery Eliminator – output 2,4,6,8,10& 12 V DC with a rotator Switch in sheet metal box cap. 2 amps	01
35.	Resistance Boxes: Plug in types, brass plug & lugs, wire wound Resistance adjusted to high accuracies range 1-100 ohm constant coil	01
36.	Two Port Network parameters	01
37.	Two Stage RC coupled Amplifier	01
38.	Various connecting wires	Approx Rs.5000.00

**Terms & Conditions:**

1. Price's are to be quoted both in figures and in words. In case of a discrepancy, that the price quoted in words/ lowest will be taken as valid.
2. The bidder should be an govt. supplier / Original Manufacturer of the Equipment or authorized dealer/distributors of the above items. For minor equipments, the authorization letter from OEM / Original Manufacturer specific to this tender to be enclosed, failing which the bid will be rejected.
3. Incomplete / conditional bids will be rejected.
4. The bid must be as per mentioned specifications **Annexure – I** or higher specification.
5. The quantity included in the bid can be increased or decreased at the discretion of the Competent Authority, Maulana Azad National Urdu University Hyderabad.



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6. The supply of said items has to be made within a period of **two weeks** from the date of receipt of Purchase Order. In case of delay, 0.5% cost of the whole supply for every week as late supply will be deducted from the bill/Performance Guarantee to the maximum of 10% after which the order will be cancelled. In case, if the firm supplies inferior quality, the University may at its decision reject the entire material and impose penalty.
7. Items offered in the tender enquiry may be re-ordered at the same rate, terms & conditions within a period of twelve months/one year from the date of issue of Purchase Order.
8. The amount quoted should include all the charges including taxes, transportation, installation, etc.
9. All pages of the tender document are to be signed and stamped by the tendering firm and to be attached along with the bids.
10. Items should carry warranty (for minor equipments only) for at least one year or as per OEM whichever is later.
11. The University reserves all the rights to place the order with the firm quoted lowest rates. In case, if two or more number of firms quotes the same rate, the Committee reserves right to place order as per the additional features and other inputs as quoted in the bid.
12. The firms should submit EMD or Rs.3000/- (refundable) as detailed below in the form of DD drawn from any scheduled bank in favour of MANUU payable at Hyderabad. (Exemption for registering with MSME NSIC, N.C.C.F, Kendriya Bhandar etc as per GoI norms will only be considered on production of documentary proof).
13. The L-1 firm (for equipments only) should submit 10% value of Purchase Order as Performance Guarantee in the form of D.D / Fixed Deposit (Joint Account) / Bank Guarantee from a scheduled bank in favour of MANUU which will be released after 60 days after completion of warranty and after fulfilling of all tender obligations.
14. For any query/clarification, you may contact Dept. of Physics, School of Sciences.
15. The firm shall give demonstration/training to the user department about the usage/features of the equipment after installation.
16. The University reserves all the rights to reject or accept any tender without assigning any reason or cancel or withdraw the tender notice.
17. In case of any dispute, Hyderabad will be the Jurisdiction. The Registrar, Maulana Azad National Urdu University, Hyderabad shall decide the issue and his decision will be final and shall be binding on the both parties.

**Head**  
(Department of Physics)



**Annexure-I**

1.	Name of Firm	
2.	Details of EMD of Rs.3,000/- (if exempted, documentary proof)	D.D. No. _____ dated: _____ Bank _____
3.	Details of Registration with income tax	
4.	Original Equipment Manufacturer (OEM) authorization certificate specific to this tender / authorized dealership certificate of the make / brand quoted For minor equipments only	
5.	Signed of copy of the Tender	

**Price Schedule:**

Sl.	Material Description	Qty	Brand	Unit Price	Total (inclusive of all)
1					
2					
3					

Place : .....  
 Date : .....

Signature of the authorized  
 representative of the firm with stamp