



School of Nanoscience and Nanotechnology

MAHATMA GANDHI UNIVERSITY
Priyadarshini Hills, Kottayam-686560 , Kerala, India

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Phone: 0481 – 2733391

No: SNSNT / 01/ NIT-1/2024

Dated: 03/01/2024

NOTICE INVITING TENDER (Two bid system)

Sealed competitive quotations are invited for the supply of following equipments. The tenders (both technical and financial bid) are invited as above should reach the undersigned not later than 4:00 p.m. 18th January 2024. The details are as given below.

1	Name of the Scientific Equipment	1. Millikan's oil drop experiment 2. Newton's ring apparatus 3. Planck's constant by Photoelectric effect 4. Frank Hertz experiment w/o CRO (Detailed specifications given in Annexure-1)
2	Earnest money deposit (EMD)	1% of the estimated value.
3	Tender submission fee	0.2% of the cost of the equipment (PAC) rounded to the nearest multiple of 100, subject to a maximum of 25,000/- + GST as applicable
4	Period of supply and Installation	Within 30 days from L/C opening date
	Address	The Director, School of Nanoscience and Nanotechnology Mahatma Gandhi University, Kottayam, Kerala Pin-686560
3	Date and time of technical bid opening	19/01/2024, 11.00 am
4	Date and time of financial bid opening	19/01/2024, 02.00 pm
5	Last date and Time of submission of tender with relevant documents.	18/01/2024, 04.00 pm

Duly filled up and signed tender schedule along with relevant documents should be sent to **The Director, School of Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam** by speed post so as to reach before the date and time specified. The cover containing the document should be superscribed the **name of the scientific equipment, tender number and last date of submission** of the tender.

ELIGIBILITY CRITERIA

1	Bidder should be a company registered in India or Registered Partnership /proprietary firms	Copy of valid registration certificate/Copy of Certificates of incorporation
2	Should not have been blacklisted by any of the Government entities under state / central government.	Self-Certificate
3	The bidder should have a registered number of (i) GST where his business is located ii) Income Tax / PAN number.	Copies of relevant certificates of registration

Further details can be had from the office of **School of Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam** Email: snsnt@mgu.ac.in on all working days during working hours.

If relevant documents through speed post are not submitted with in time, the tenders will not be considered. The Purchase committee of the School of Nanoscience and Nanotechnology reserves the right to reject any or all the tender without assigning any reason whatsoever.



Director
School of Nanoscience and Nanotechnology
Mahatma Gandhi University
Kottayam-686 560

Please see the Annexures

ANNEXURE-1

Technical Specifications

Item Name	No	Specifications
1. Millikan's oil drop experiment	1	<ul style="list-style-type: none">• Condenser, a light source and a measuring microscope, all are mounted on a common support consists of a heavy cast iron base which is mounted on a steel pillar that carries the microscope and the lamp house• The microscope can be adjusted smoothly by slow motion screw in the horizontal as well as in the vertical direction.• An atomizer is also fitted of the same carriage• The apparatus does not need any critical adjustment and the oil drops appear in microscope within seconds.• The microscope is provided with a micro meter scale• Power supply: IC regulated D.C output 0-300 volt continuously variable to be applied to condenser plates and a 6 volt at 3A A.C. supply for the lamp house.
2. Newton's ring apparatus		<ul style="list-style-type: none">• Comprising a small wooden frame• A matt blackened inside and provided with a glass plate• Plano-convex lens of 50mm diameter having 100cm focal length which rests on a plain glass plate
3. Planck's constant by Photoelectric effect		<ul style="list-style-type: none">• DC Variable regulated Power Supply of 0-1V DC .• Vacuum type Pot cell mounted in wooden box having window for injecting light & also to fit the different types of filters.• One wooden plank 30cm long• Light source with 100w lamp & set 3 filters Blue green and yellow
4. Frank Hertz experiment w/o CRO		<ul style="list-style-type: none">• Argon filled tetrode• Filament Power supply 3.6-4.3 continuously variable• Power supply for VG1K 1.3-5V continuously variable• Power Supply VG2KA 1.3-15V continuously variable• Power Supply VG2K 0-9V Continuously variable• Saw tooth wave form for CRO display scanning voltage :0-80V, Scanning frequency: 115+20 Hz• Multirange Digital Ammeter Display: 3 ½ digit LED Range: 10-7,10-8 & 10-9A• The instrument can plot of the amplitude spectrum curve by means of point-by-point measurement• Also directly display the amplitude spectrum curve on the oscilloscope screen.

Stamp and Signature of the Tenderer

ANNEXURE-2

Terms and Conditions

1. Tenders must accompany a copy of the “Annexure II and Annexure III” section of this document, signed and stamped on each page indicating that they agree to these.
2. Separate tender along with separate tender fee and EMD with all other necessary documents should be submitted for each item. For those bidders submitting tenders for more than one item should include separate tender forms (technical bid and financial bid) must be placed in individual envelopes and these envelopes must be placed inside a bigger envelope.
3. The non-refundable application fee of 0.2% of cost with the chalan of 5% of it as GST must be accompanied with tender for each instrument. The application fee must be as D.D. drawn in favour of The Director, School of Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam
4. The DD/Cheque for EMD or any other must be drawn in of favour of The Director, School of Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam payable at SBI Mahatma Gandhi University Campus Branch.
5. The tenders received late, without tender fee, without EMD, without required documents or incomplete in any respect / misleading will rightly be rejected.
6. Instrument should have a warrantee of at least three year and should have at least one Service engineer and one application scientist based in India with onsite training facility on the same quoted equipment. Training should include operation, handling and maintenance of system.
7. A good record in supply and service to other research institutes will be considered as a positive point for a particular company. User list of similar equipment supplied recently in India should be provided.
8. Laboratory floor space, electrical power requirements, earthing, room temperature/ humidity requirements etc. should be mentioned appropriately.
9. All necessary accessories should be supplied with the instrument, as per standard package offered, including complete set of service and operation manuals for diagnosis, trouble shooting, maintenance and electronic circuitry (hard and soft copies). The prices quoted must be inclusive of all accessories and installation charges etc if any and should be clearly mentioned , otherwise , it will be presumed that the rates quoted are inclusive of all these charges and will not be paid.
10. The Delivery Schedule, Payment Terms & Warranty/Guarantee etc must be clearly indicated in the technical bid. The charges for extended warranty and/or Annual Maintenance Contract after the expiry of offered warranty period should also be specified in the financial bid.

Maintenance Contract after the expiry of offered warranty period should also be specified in the financial bid.

11. The price of the equipment should be quoted in Indian rupee. The total price of the equipment quoted should be inclusive of GST & other taxes / duties if any; material cost; transportation cost; loading and unloading cost; installation cost; labour charges and all other expenses in whatsoever means. Other wise it will be presumed that the rates quoted are inclusive of all the charges and will not be paid.
12. Payment process will be initiated only after supply of items as per tender specifications and satisfactory installation of the items.
13. It will be the responsibility of the supplier to deliver the ordered materials at School of Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam. All required materials for satisfactory installation are to be provided by the supplier at their own cost.
14. For ensuring the guarantee relating to the quality of the articles supplied, a written agreement must be submitted by the firm.
15. Certificate from the vendor must be attached stating that they have not been blacklisted by any of the Government entities under State/ Central Govt.
16. The validity of the tenders shall be 6 months from the last date of submission of the tenders.
17. A qualified bidder should submit 5% of PAC as Security Deposit
18. If the date of opening of the tender happens to be a Public Holiday, then the tender will be opened, next working day at the same time.
19. The Purchase committee of the School of Nanoscience and Nanotechnology reserves the right to accept/ reject any or all of the tenders at any time without assigning any reason.

Stamp and Signature of the Tenderer

ANNEXURE - 3

TENDER FORM PART-I (TECHNICAL BID)

Date:

From,

M/s.

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To,

**The Director,
School of Nanoscience and Nanotechnology
M.G. University, Kottayam, Pin-686560
Kerala, India.**

Dear Sir,

I/We have gone through the tendering conditions pertaining to the Tender and General Terms and Conditions of Contract and other requirement for delivery and complete Installation and Special Conditions of Contract contained herein with this tender document. I/we hereby agree to supply the stores conforming to the tender specifications incorporated in ANNEXURE 1 of the tender document and also agree to abide by your General Conditions of all Contracts and Special Conditions of Contract contained in the ANNEXURE 2 of the Tender document.

You will be at liberty to accept any or more of the items of stores offered by us and I/we shall be bound to supply you the stores as may be specified in the Purchase Order/Contract.

I/We hereby agree to keep the price valid for your acceptance for a period of 30 days from the date of opening of Part-II (Financial bid) of the tender. Deviations to Technical specifications contained in ANNEXURE 1 of the tender documents are detailed in ANNEXURE-A to the tender form while deviations proposed to the General Special Conditions of Contract contained in ANNEXURE 2 are detailed in Annexure-B to this tender. Price applicable for the stores are indicated separately in a sealed envelope marked as financial bid of the tender.

I/We are also enclosing herewith all the leaflets catalogue etc. pertaining to the stores offered.

Yours faithfully

Stamp and Signature of the Tenderer

ANNEXURE - 4

TENDER FORM PART-II (FINANCIAL BID)

Date:

From,

M/s.

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To,

**The Director,
School of Nanoscience and Nanotechnology
M.G. University, Kottayam, Pin-686560
Kerala, India.**

Dear Sir,

In response to your invitation and as per your tendering and contracting conditions, the prices applicable for the scope of supply contained in ANNEXURE-3 (TECHNICAL BID) of our tender are indicated in the format at annexure "A" to this tender.

We hereby agree to keep the price valid for your acceptance for a period of 30 days from the date of actual opening of Part-II (FINANCIAL BID) of the tender.

Yours faithfully,

Stamp and Signature of the Tenderer