## राष्ट्रीय प्रौद्योगिकी संस्थान पुदुच्चेरी

## थिरुवेत्ताकुड़ी, कारैक्काल - 609 609

#### NATIONAL INSTITUTE OF TECHNOLOGY PUDUCHERRY

Thiruvettakudy, Karaikal – 609 609 Union Territory of Puducherry



#### **Tender Document**

For Procurement of Laboratory Equipments for the Physics Department

Tender Enquiry No.: NITPY/PHY/LAB/2017/002

Dated: 07-07-2017

at

National Institute of Technology Puducherry
Thiruvettakudy, Karaikal – 609 609
Union Territory of Puducherry
India

National Institute of Technology Puducherry an autonomous Institute established under Ministry of Human Resource Development, Government of India would like to procure the following items.

# NOTICE INVITING QUOTATION Procurement of Laboratory equipments for the Physics Department

National Institute of Technology Puducherry invites separate sealed quotations from the reputed vendors for supply of the following items:

S. No.	Name of the Item	No. of Items
1	Laser Source (Solid state)	3
2	Field along the axis of the coil	4
3	Digital Thermometer (-50 to 200)	5
4	Digital Stop watch	10
5	Sonometer	4
6	Regulated Power Supply 0-12V, 5A	4

The complete details of the items to be supplied, Eligibility conditions and method of submission of bidding documents, etc. are available in our institute website: <a href="http://www.nitpy.ac.in">http://www.nitpy.ac.in</a>

<u>Last Date & Time:</u> Submission of Quotation: **28-07-2017**, **on or before 3.00 PM** Opening of Quotation in the presence of available bidders: **31-07-2017 at 4.00 PM** 



### राष्ट्रीय प्रौद्योगिकी संस्थान पुदुच्चेरी थिरुवेत्ताकुड़ी, कारैक्काल – 609 609

# NATIONAL INSTITUTE OF TECHNOLOGY PUDUCHERRY Thiruvettakudy, Karaikal – 609 609

#### **Terms & Conditions**

Separate sealed quotations are invited for Supply of **Laboratory equipments for the Department of Physics** for the as per the details given in the Annexure:

- The sealed quotations should reach The Registrar, National Institute of Technology, Thiruvettakudy, Karaikal 609609 on or before 28-07-2017 at 3:00 PM and they will be opened on the next day 31.07.2017 at 4:00 PM in the presence of available bidders. The offers will not be considered if received after the bid closing date and time.
- 2. The quotations should be sealed and superscripted as "Laboratory Equipments for Physics department".
- 3. The rates should be inclusive of all taxes, freight, packing, forwarding, etc.
- 4. The rate quoted shall on FOR destination basis at our premises.
- 5. The firm should have been in existence for at least last three years (proof to be attached)
- 6. The quote is not transferable.
- 7. The offers received through telex / tele-fax / e-mail will not be accepted by the Institute under any circumstances.
- 8. The Institute shall not be responsible for any delay / loss or non-receipt of quotes by post / courier service.
- 9. No unsolicited correspondence shall be entertained after the submission of the offer.
- 10. Quoting merely the lowest price does not confer any right to any bidder for award of supply order. The Institute reserves the right to select any bid on the grounds of quality, offer of additional / special features, compatibility, etc.
- 11. The Institute also reserves the right to reject any bids with sub-standard products even if they are found to be lowest.
- 12. The period of delivery exceeding three months is not normally allowed.
- 13. Full particulars regarding the make, manufacturing specifications and standards, guarantee period, and descriptive literature should accompany the quotation.
- 14. The price and the delivery period should be clearly stated in the quotation.
- 15. If any articles are not up to the prescribed quality or specification it is liable for outright rejection.
- 16. At the time of dispatch of articles, Delivery Note should be given along with the articles.
- 17. The list of Items is attached as Annexure –The firms may quote any single items or whole items separately as the case may be.

- 18. Failure to supply the item indented within delivery time will result in automatic cancellation of Supply Orders. Such automatic cancellation empowers the Institute to purchase the items from other available sources and to recover the difference between the prices so paid and those payable under the contract. Also failure to comply with the general spirit of the contract will lead to termination of contract and effecting purchases required from outside sources and to recover the loss in such kind of purchase from supplier.
- 19. In case of failure to supply within the time specified in the Purchase order, a penalty/LD of 0.5% of the total value per week or a part thereof shall be levied subject to a maximum of 7.5% in respect of items which are not supplied. The decision of National Institute of Technology Puducherry shall be final in this regard.
- 20. The Demonstration of the components/equipments should be provided by the supplier on the basis of requisition.
- 21. The manual should be provided along with the components/equipments after the purchase of the same.
- 22.In the last three years, the bidders should have supplied the product/components/equipments to the minimum of two government organization/institution. The copy of the proof is to be enclosed.

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Date: 07-07-2017 Registrar (i/c)

Accepted the terms & Conditions

Name, Sign & seal of the vendor

#### **ANNEXURE**

## <u>Procurement of Laboratory equipments for the Department of Physics</u> <u>NITPY's Specifications</u>

S. No	Name of the Item	Specifications	Required quantity
1	Diode Laser Light Source	Purpose: To study Grating experiments, properties of LASER etc.	3
		<u>Specifications</u>	
		• Output power range-1mW. Wavelength -630 to 680 nm.	
		<ul> <li>Battery operated</li> <li>Compact size (90 x 90x42 mm).,</li> <li>Housed in a plastic holder case with on-off switch.</li> </ul>	
2	Field along the axis of the coil set up:  (Stewart and Gee's	Purpose: To study the field along the axis of a coil and to determine magnetic moment of a bar magnet.	4
	Apparatus)	Specifications and accessories included	
		<ul> <li>Current Carrying Coil Setup –Precise Tangent Galvanometer.</li> <li>Option for changing number of turns in the coil- 5, 10, 20, 50.</li> <li>Sliding Magnetometer Comprising a stout Bakelite box- 100 mm (dia) Aluminium dial graduated in degrees 0-90 four times, Anti-parallax mirror slot made by Bakelite.</li> <li>Suitable rheostat and ammeter.</li> </ul>	
3	Digital Thermometer (-50 to 200 $^{0}$ C)	<b>Purpose:</b> To measure the temperatures of icebath and hot oil for different experiments.	5
	(	Specifications and accessories included	
		<ul> <li>Range of the thermometers 20 to 200 °C).</li> <li>With least count of 0.1°C in a compact and rugged metallic frame.</li> <li>4 ½ LCD/LED display and option of operation with 9V battery.</li> </ul>	
4	Digital Stop watch	Purpose: To measure the time during various Physics experiments.	10

		Charifications and accessories included	
		Specifications and accessories included	
		<ul> <li>Stopwatch Functions include 10-hour maximum, 1/100 second timing, lap time, and split times.</li> <li>Measuring capacity: 9h: 59m'59.999s.</li> <li>Measuring Modes: Elapsed time, lap time, split time, 1<sup>st</sup>&amp; 2<sup>nd</sup> place times.</li> <li>Accuracy: 99.99%</li> <li>Approx. 3 years (includes an average of 20 presses of button per day).</li> </ul>	
5	Sonometer	Purpose: To measure frequency of tuning fork and AC supply (Mede's experiment)	4
		<b>Specifications and accessories included</b>	
		<ul> <li>Wooden hollow box- made of teak wood</li> <li>Scale: Graduated wooden scales on both sides, along the length (mm-graduation) of the resonating wire.</li> <li>One each brass &amp; steel wire respectively,</li> <li>Two moveable bridges, pulleys and fixed screw to enable a third wire to be fixed for tensioning by masses.</li> <li>Weight hanger and masses 1 to 5kg, steps of 1kg.</li> <li>Transformer and Accessories to convert it into Melde's experiment (Frequency of AC).</li> </ul>	
6	Regulated Power Supply 0-12V, 5A	Purpose: Power supply for various Physics lab experiments.	4
		<ul> <li>Specifications and accessories included</li> <li>0-12V section</li> <li>Output voltage: 0-12V DC continuously variable (by coarse and fine adjustment)</li> <li>Load current: 0-5 Amps</li> <li>Digital display for current and voltage.</li> <li>Overload protector beep with fuse.</li> <li>Regulation Line: +/-0.05%</li> <li>Regulation Load: +/- 0.05%</li> <li>Ripple: Less than 1mV</li> </ul>	

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Date: 07-07-2017 Registrar (i/c)