



*International and Inter University Centre for  
Nanoscience and Nanotechnology (IIUCNN)*

**Mahatma Gandhi University**

**Priyadarsini Hills**

**Kottayam-686 560, Kerala, India**

Telephone: 91-9447223452 (Mobile), 91-481-2730003 (Office)

E-mail: [sabuchathukulam@yahoo.co.uk](mailto:sabuchathukulam@yahoo.co.uk), [sabuthomas@mgu.ac.in](mailto:sabuthomas@mgu.ac.in)

*Prof. Sabu Thomas*

*Date: 12.01.2018*

**Tender Notice No: 02/Tend/iiucnn/2017-18**

**TENDER NOTICE (Two Bid System) REVISED**

Separate sealed competitive tenders are invited from reputed firms and their authorized dealers to supply “Equipments” for International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University Priyadarshini Hills P.O, Kottayam.

**Name of Equipments:** Shore A hardness tester, Shore D hardness tester, IRHD hardness tester and Compression Set Apparatus

The tender forms can be downloaded from the website [www.mgu.ac.in](http://www.mgu.ac.in) and [www.iiucnn.com](http://www.iiucnn.com) Completed tenders along with Tender fee (by way of Demand draft, in favor of Prof. Sabu Thomas, Principal Investigator, BRNS project, International and Inter University Centre for Nanoscience and Nanotechnology, S.B A/c No: 67352436302 payable at SBI Mahatma Gandhi University campus) and Chelan of VAT payment should be submitted to Prof. Sabu Thomas, Principal Investigator, International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam-686560, Kerala. Details can be had from the International and Inter University Centre for Nanoscience and Nanotechnology, M G University (0481 - 2731669) or by mail [directoratiiucnn@gmail.com](mailto:directoratiiucnn@gmail.com) .

<b>Important Dates</b>		
Last date for submission of completed Tenders	:	2.00 P.M on 29 <sup>th</sup> January 2018
Closing of acceptance of completed Tenders	:	5.00 P.M on 29 <sup>th</sup> January 2018
Date of opening of Technical Bid	:	2.00 P.M on 30 <sup>th</sup> January 2018
Date of opening of Financial Bid	:	4.00 P.M on 30 <sup>th</sup> January 2018

Sd/-

Prof. Sabu Thomas, Principal Investigator, BRNS project,  
International and Inter University Centre for Nanoscience and Nanotechnology  
Mahatma Gandhi University Priyadarsini Hills P O; Kottayam – 686 560, Kerala, India

## **CONTENTS**

<b>ANNEXURE I</b>	<b>: ELIGIBILITY CRITERIA GENERAL TERMS AND CONDITIONS</b>
<b>ANNEXURE II</b>	<b>: TENDER FORM (PART I – TECHNICAL BID)</b>
<b>ANNEXURE III</b>	<b>: TENDER FORM (PART II – FINANCIAL BID)</b>
<b>ANNEXURE IV</b>	<b>: TECHNICAL SPECIFICATION AND TECHNICAL COMPLIANCE SHEET OF SHORE A HARDNESS TESTER, SHORE D HARDNESS TESTER, IRHD HARDNESS TESTER and COMPRESSION SET APPARATUS</b>
<b>ANNEXURE V</b>	<b>: CHECK LIST</b>

## **ANNEXURE I: ELIGIBILITY CRITERIA GENERAL TERMS & CONDITIONS**

Sealed tenders are invited from reputed firms and their authorized dealers to supply “Equipment” for International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University Priyadarshini Hills P.O, Kottayam.

<b>Sl No</b>	<b>Name of Equipment</b>	<b>Tender cost in INR</b>	<b>EMD in INR</b>
1.	Shore A hardness tester	<b>1000</b>	<b>1% of quote</b>
2.	Shore D hardness tester	<b>1000</b>	<b>1% of quote</b>
3.	IRHD hardness tester	<b>1000</b>	<b>1% of quote</b>
4.	Compression set apparatus	<b>1000</b>	<b>1% of quote</b>

### **I. GENERAL GUIDELINES**

1. For those bidders submitting tenders for more than one item, separate tender forms (Technical bid and financial bid) must be placed in individual envelopes and these envelopes must be placed in a bigger envelope. The main envelope should super scribe “Tenders for “Hardness Testing Device and Compression set apparatus”.
2. If the last date of submission is declare holiday in Mahatma Gandhi University, Kottayam (in exceptional cases), the date of submission and the tender opening will be next working days respectively.
3. Validity of tenders shall be 3 months from the last date of submission of the tenders.
4. The Principal Investigator reserves the right to accept/reject any or all the tenders at any time without assigning any reason.
5. The tenders received late, without tender fee, without EMD, without required documents or incomplete in any respect/misleading will out rightly be rejected.
6. The payment will be made only after the installation and benchmarks are met.
7. All items should also be complied with the following regulations.
  - a. Excise duty exemption can be availed for the purchase.
  - b. A warranty period of three years from the date of installation is required for the software and hardware items.

- c. Tender should also state the annual maintenance charges, location of nearest service centre and delivery time.
- d. The system should be supplied and installed at the International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam.
- e. Entry Tax, Sales Tax, Freight, and Installation Charges, loading and unloading etc. if any, should be included.
- f. Financial bid and Technical compliance sheet for each instrument should be strictly as per tender format, and signed on each page.
- g. If the supplier/firm is manufacturer/authorized dealer/sole distributor of any item, the certificate to this effect should be attached.
- h. Availability of Spares: The tender must give certificate duly signed and stamped by manufacturer for the availability of spares and servicing of instrument for at least 10 years. Supplier should give an undertaking that spares/parts will be supplied within the specified periods as and when ordered.
- i. Certificate indicating country of manufacture should be attached.
- j. Last date for submission of tender along with requisite fee, EMD and all documents is up to 5.00 P.M on 29<sup>th</sup> January 2018.

**Bidder's name, signature and seal:**

## **II. PREPARATION OF TENDER**

1. The tender no. and due date should invariably be super scribed on the envelop cover.
2. The proposals shall be submitted in two parts, viz. Technical bid and Financial bid in two separate sealed envelopes (with respective marking super scribed in bold).
3. The first envelope (envelope 1) marked "Technical bid" should include the technical specifications. The first envelope should not contain any cost information whatsoever.
4. The second envelope (envelope 2) marked "Financial bid" should contain the detailed price offer in prescribed format.
5. Both the sealed envelopes Technical bid and Financial bid should be placed in a bigger sealed cover. The top of cover must also contain Name and Address of the tenderer, telephone and other contact details for further correspondence.

6. The tender competing in technical evaluation will only be considered for financial evaluations. The price envelopes of others will not be considered. At second stage, financial bids of only technically acceptable offers will be opened for further evaluation and ranking before awarding the contract.
7. The financial proposal shall be opened in the presence of the tenderers or their representative who choose to attend. The prior information in this regard will be given to the qualified tenders.
8. The printed literature and catalogue/brochure giving full technical details should be included with the technical bid to verify the specifications quoted in the tender.

### **III. DELIVERY OF TENDER**

1. All tender documents should be addressed to Prof. Sabu Thomas, Principal Investigator, BRNS project, International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Priyadarshini Hills P.O, Kottayam-686 560, Kerala, India.
2. Tenders duly sealed and sent only by registered post/courier will be considered. No tender delivered by hand/electronically will be accepted.
3. No responsibility with regard to postal delays due to any reason whatsoever will be accepted.

#### **Bidder's name, signature and seal:**

### **IV. DELIVERY, INSTALLATION AND WORK COMPLETION**

1. The delivery of the material will be made within stipulated time period as given in the supply/work award letter otherwise will attract penalty. In case of imported item, the supplier/their Indian Agent will be responsible for delivery of the material from the place of discharge of material to final point (Mahatma Gandhi University).

### **V. PRICE AND DELIVERY**

1. The prices quoted must be net per unit, inclusive of all charges F.O.R. C.I.P Cochin
2. The prices quoted must be FIRM and preference will be given to such tenders. In exceptional cases (e.g. items involving substantial use of raw materials susceptible to sharp fluctuation in prices) if prices are quoted subject to variation it shall be on the

basis of a standard Price Variation Formula. The basis for calculation shall be very clearly stated. Here again preference will be given to the tenders with a specific ceiling on escalation.

3. All other charges including VAT/CST, Excise Duty and other levies payable by C.I.P should be clearly indicated otherwise it will be presumed that the rates quoted are inclusive of all these charges and will not be paid.
4. The Excise Duty component (with percentage) should be indicated, as the University is exempted from the payment of Custom/Excise Duty. Exemption will be availed by providing Custom/Excise Duty Exemption Certificate with order.
5. 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.
6. The manufacturers' printed literature/catalogue/drawing/user's list in respect of range of product being quoted should also be submitted with the offer.
7. In case the rates are being offered by the dealer/stockiest, a certificate from the manufacturer in original about the authorization of dealership/stockiest-ship and to quote rates on their behalf be furnished with the offer along with a certificate from the manufacturer that for the material supplied through the authorized dealer/stockiest, they will be responsible for its quality and guarantee/warranty.
8. The supply of items of approved specifications shall have to be made strictly as per given delivery schedule on placement of order, failing which the material may be rejected and returned at the expenses of the supplier.
9. The firms shall be required to arrange demonstration of the offered item if required by the University.

**Bidder's name, signature and seal:**

**VI. PAYMENT**

1. Proforma Invoice of the manufacturer should be enclosed along with complete terms & conditions. The terms of payment will be Letter of Credit (L.C.) on C.I. P. basis as under:

- a. Proforma Invoice of the manufacturer should be enclosed along with complete terms & conditions. The terms of payment will be Letter of Credit (L.C.) on C.I. P. basis as under:
  - i. L.C. for 90% of the cost of material, which shall be released by the bank on proof of dispatch of goods in good condition.
  - ii. The 10% amount against L.C. of the cost of material shall be released by bank on satisfactory installation, commissioning of the instrument, deposition of performance warranty and/or security -if any- and all required documents on subsequent intimation by the office to the bank to this effect

## **VII. WARRANTY**

Any defective goods should be replaced or repaired by the supplier free of charge. Delivery of goods and its installation at Mahatma Gandhi University, Kottayam during part repair/replacement should be free of charge. A warranty certificate declaring these points must be supplied with the technical bid.

## **VIII. MAINTENANCE CONTRACT**

The instrument or machinery is maintained free of charge by the supplier during warranty period or such other extended periods as the contract terms may provide and the paid maintenance should commence only thereafter. If the supplier fails to deliver the goods and / or perform the services within the contractual delivery period for reasons other than circumstances beyond supplier's control (which will be determined by the purchaser) and the purchaser extends the delivery period, the purchaser will also deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% (half percent) of the delivered price of the delayed goods or unperformed services for each week of delay or part thereof until actual delivery or performance. The maximum limit of such deduction will, however, be 10% (ten percent) of the contract price of the delayed goods or services.

**Bidder's name, signature and seal:**

**IX. SALES TAX REGISTRATION CERTIFICATE**

Tender applications must be accompanied by duly attested Photostat copy of the sales tax declaration to the effect that the firm is registered under the Sales Tax Department.

**X. INCOME TAX**

Photostat copy of the latest income tax clearance certificate and a copy of PAN should be provided.

**XI. CUSTOM DUTY & EXCISE DUTY EXEMPTION**

Our Institute is registered with the Department of Scientific & Industrial Research (DSIR) for purposes of availing customs duty exemption. The certificates will be made available.

**XII. INSURANCE**

The goods supplied shall be fully insured in Indian rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery. The insurance shall be valid for a period of not less than 3 months after installation and commissioning.

**Bidder's name, signature and seal:**



## **ANNEXURE II: TENDER FORM PART-I (TECHNICAL BID)**

**TENDER NO: 02/Tend/iucnn/2017-18**

Last date for receipt: 29<sup>th</sup> January 2018

Due date for opening TECHNICAL BID (Part –I): 30<sup>th</sup> January 2018

Tenderer's Offer No:

Date:

From,

M/s. ....

.....

.....

To,

Prof. Sabu Thomas, Principal Investigator, BRNS project

International and Inter University Centre for Nanoscience and Nanotechnology,

Mahatma Gandhi University, Priyadarsini Hills P.O,

Kottayam- 686 560

Kerala, India.

Dear Sir,

I/We have gone through the tendering conditions pertaining to the Two-Part Tender and General Conditions of Contract and Special Conditions of Contracts contained herein with this tender document. I/we hereby agree to supply the stores conforming to the tender specifications incorporated in ANNEXURE III 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 I 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 90 days from the date of opening of Part-II (Financial bid) of the tender.

Deviations to the Technical specifications contained in 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 I 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 III: TENDER FORM PART-II ( FINANCIAL  
BID)**

**TENDER NO: 02/Tend/iiucnn/2017-18**

Last date for receipt: **29<sup>th</sup> January 2018**

Due date for opening FINANCIAL BID (Part –II): 30<sup>th</sup> January 2018

Tenderer’s Offer No:

Date:

From,

M/s. ....

.....

.....

To,

Prof. Sabu Thomas, Principal Investigator, BRNS project

International and Inter University Centre for Nanoscience and Nanotechnology,

Mahatma Gandhi University, Priyadarsini Hills P.O,

Kottayam- 686 560

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 Part-I (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 90 days from the date of actual opening of Part-II (FINANCIAL BID) of the tender.

Yours faithfully,

**Stamp and Signature of the Tenderer**

## ANNEXURE IV: TECHNICAL SPECIFICATION AND TECHNICAL COMPLIANCE SHEET OF UNIVERSAL TESTING MACHINE

Sl No	ITEM	Specifications	Qty	EMD	Tender Form Rate
1.	Shore A hardness tester	Compiles following Standards Shore- ISO 868, ISO 7619-1, ASTM D 2240	1	1% of quote	1000
2.	Shore D hardness tester	ISO 7619-1, ASTM D 2240	1	1% of quote	1000
3.	IRHD hardness tester	IRHD – ISO 48, ASTM D 1415.	1	1% of quote	1000
4.	Compression set apparatus	ISO 3400 (Part 10) –1977, ASTM D395 -14	1	1% of quote	1000

Detailed technical specifications are given below:

### 1. Shore A Hardness tester

Type: Digital  
 Application: Rubber  
 Functions: Data hold, zero setting, power ON/OFF  
 Instrument Type: Compact or Long  
 Pressure Foot: Circular or Rectangular  
 Standards: ISO 7619,868, ASTM D 2240 etc.  
 Spring Force: 8 N  
 Contact force: 10 N  
 Indenter: Sharp point  
 Tip Angle: 35°  
 With all additional accessories

### 2. Shore D hardness tester

Type: Digital  
 Application: Plastics  
 Functions: Data hold, zero setting, power ON/OFF  
 Instrument Type: Compact or Long  
 Pressure Foot: Circular or Rectangular  
 Standards: ISO 7619,868, ASTM D 2240 etc.  
 Spring Force: 45 N  
 Contact force: 50 N  
 Indenter: Sharp point

Tip Angle: 30°  
Indenter Diameter: 1.25mm  
Indenter Protrusion: 2.5mm  
With all additional accessories

### **3. IRHD hardness tester**

Type: Digital  
Specification :- As per ASTM D 1415  
Range of hardness 30 to 85  
IRHD Diameter of indenter tip 2.50 mm  
Pressure foot 20mm OD, 6 mm ID  
Force on pressure foot 8.30 N  
Contact force 0.30 N  
Indenting force 5.40 N  
Electric supply 230 volt single-phase AC

### **4. Compression Set Apparatus**

Type: Quick clamping  
Size of stainless steel plates : 50 x 10 x 130 mm  
Diameter of spacers : 25-30 mm  
Thickness of spacers : 9.40 +/- 0.01 mm (for large specimens).  
Other optional Accessories  
Bench Thickness gauge  
Mould for small specimens (three cavity)  
Mould for large specimens (three cavity)  
Rotary cutting die for small specimens  
Rotary cutting die for large specimens

**ANNEXURE V: CHECK LIST (TO BE FILLED COMPLETELY & PLACED ALONGWITH TECHNICAL BID)**

<b>Sl.No</b>	<b>Points to be verified</b>	<b>Yes/No</b>
<b>1</b>	Technical specification compliance sheet	
<b>2</b>	Tender Fee	
<b>3</b>	EMD	
<b>4</b>	Photocopy of PAN and TAN card	
<b>5</b>	User list and certificates issued by clients	
<b>6</b>	Copy of income tax return certificate	
<b>7</b>	All other certificates as asked in tender document	
	a) Spare part availability certificate	
	b) Certificate indicating country of manufacture	
	c) Copy of “Eligibility Criteria and General Terms and Conditions” signed and stamped on each page	

**Bidder’s name, signature and seal:**