



**SPONSORED RESEARCH, INDUSTRIAL CONSULTANCY & CONTINUING  
EDUCATION CELL  
NATIONAL INSTITUTE OF TECHNOLOGY  
ROURKELA – 769 008, ODISHA**

**Limited Tender Enquiry**

**Department: Ceramic Engineering**

**Tender No: NITR/PW/CR/2018/40**

**Date: 31/07/2018**

1. Blue Star Engineering & Electronics Limited,  
Kolkata 700001.
2. Maverick Technologies, Guwahati-781005.
3. Akshara, Sheikhpura – 811105.
4. Tec-sol, Chennai-600116.
5. Lab equipment & chemicals, Kolkata,  
West Bengal 700001
6. Snowline Engineers, Kolkata 700028.

**Important Dates**

<b>Event</b>	<b>Date</b>	<b>Time</b>
Pre-bid Conference	<b>NA</b>	<b>NA</b>
Last date of submission of Bid	<b>22/08/2018</b>	<b>11:00 AM</b>
Date of opening of techno-commercial and financial bid	<b>23/08/2018</b>	<b>11:00 AM</b>

**Through,**

**CPP Portal**

**(E-procurement)**

Dear Sir,

We intend to purchase the commodities specified below and invite quotations in accordance with the terms and conditions detailed in the bid document. If you are interested, kindly send your offer with prices and complete terms within the time mentioned above.

For any clarification:

Attention: Dr. Debasish Sarkar(Principal Investigator:)  
Department of Ceramic Engineering  
National Institute of Technology Rourkela  
Rourkela– 769 008, Orissa, India.  
Phone No. : +919556661401,  
FAX No.0661-2462926

Yours sincerely

\_\_\_\_\_  
Name: Prof. Debasish Sarkar  
Principal Investigator:  
Project Code: NITR/SR/17/CR/056

Encl:

1. Schedule of requirement, specifications, dates etc.
2. Bid document containing detail terms and conditions.

1. **Schedule of requirements**

Sl. No.	Description of Goods/Service	Quantity
01.	Computerized Touch Screen Vickers Hardness Tester (1Kgf to 50kgf)  <b>(Detailed specification as per attached Annexure – I)</b>	01 unit

2. **Specifications and allied Technical Details**

\* Attach User list along with the quotation

3. **Format of Quotation** (tick appropriate box)

It is a single part bid; please give all technical specifications and price bid in one go.

OR

It is a two-part bid with separate techno-commercial and price bids.

4. The bid should be submitted through <https://eprocure.gov.in/eprocure/app>

5. Quotations should be valid for a period of **90** days from the closing date of the bid.

6. **Some important dates:**

Event	Date	Time
Pre-bid Conference	NA	NA
Last date of submission of Bid	<b>22/08/2018</b>	<b>11:00 AM</b>
Date of opening of techno-commercial and financial bid	<b>23/08/2018</b>	<b>11:00 AM</b>

7. **Warranty** of **01** years must be provided from the date of installation.

8. **GST:** GST should be charge according to applicable rates.

9. **Bid Security: Not Applicable**

10. **Performance Security: Not Applicable**

11. Please go through the enclosed "bid document" carefully for other bidding instructions.

12. Please send your quotations through <https://eprocure.gov.in/eprocure/app>

13. For technical details, you may contact

**Prof. Debasish Sarkar**  
Principal Investigator:  
Project Code: NITR/SR/17/CR/056  
Department of Ceramic Engineering.,  
National Institute of Technology,  
Rourkela – 769 008  
Phone: 0661 – 2462207,  
Mobile No:+919556661401,  
Fax: 0661-2462926  
E-mail: [dsarkar@nitrrkl.ac.in](mailto:dsarkar@nitrrkl.ac.in)

NB: **Please furnish your Dealership Certificate (must) and Proprietary Nature Certificate (If applicable)**



## **BID DOCUMENT**

### **1. Instructions to the bidders**

- 1.1 Bids are invited on behalf of the Director, National Institute of Technology (NIT), Rourkela – 769 008, Orissa, from the intending bidders for supply of the goods/stores/ equipments for the Institute as detailed in the enquiry letter.
- 1.2 The bidders should quote their offer/rates in BOQ in clear terms without ambiguity.
- 1.3 In case of any discrepancy between the rates in figures and that in words, the rate in words will be accepted as correct.
- 1.4 The last date for receipt of the bid is marked in the enquiry.
- 1.5 The bids should be uploaded in <https://eprocure.gov.in/eprocure/app> Please follow the guidelines of the site.
- 1.6 If a prospective bidder requires any clarification in regard to the bidding documents, he may make a request the concerned officer or faculty member at least 15 days before the deadline for receipt of bids.
- 1.7 Bids received after the deadline of receipt indicated in para 1.4 above, shall not be taken in to consideration.
- 1.8 Each bidder shall submit only one bid. A bidder, who submits more than one bid, shall be disqualified and considered non-responsive.
- 1.9 (In respect of high value plant, machinery etc. of a complex and technical nature). The bids may be submitted in two parts, viz., technical bid and financial bid.
- 1.10 The bidder has to sign in full at all pages of the scanned part of the bidding document. No over-writing in those pages is acceptable.
- 1.11 If any bidder does not fulfill technical specification, his/her eligibility will be cancelled even if his/her price got L1 status.

### **2. Conditions of the bid**

- 2.1 The rates quoted should preferably be net, inclusive of packing, forwarding, freight, Insurance and all other incidental charges excluding taxes. In case these charges are quoted extra in addition to the quoted rates, the amount thereof or Ad Valorem rate must be specified. Packing, forwarding, freight, entry tax etc., when quotes separately are reimbursable at actual. If external agencies are employed, their receipts must be enclosed with the invoice.
- 2.2 Duties and Taxes are to be quoted separately. Ad Valorem rates thereof should be clearly indicated with reference to the relevant Acts and Rules.

**It may be noted that the Institute is exempt from paying Excise Duty vide Government Notification No. 10/97 dated 01.03.1997 [Registration No.: TU/V/RG-CD (227)/2011, dated 10.10.2011. The Institute is not authorized to issue C or D forms. GST may be charged at applicable rates.**

- 2.3 The goods are required to be delivered at the indenting Department of NIT, Rourkela, and must be reached within **70 days** from the date of placement of the supply of order under the risk and arrangement of the bidder and offers with delivery beyond the above period shall be treated as unresponsive. In case the delivery time is higher, the same must be mentioned clearly in the quotation.
- 2.4 The bid should remain valid for a period of **90 days** from the date of opening. In case your offer has a different validity period that should be clearly mentioned in the quotation.
- 2.5 Conditional discount, if any, offered by the bidder shall not be considered at the time of evaluation.
- 2.6 The goods offered should strictly conform to the specification and technical details mentioned in **Annexure - I**.
- 2.7 The Institute may like to conduct pre-dispatch inspection of goods, where applicable.
- 2.8 Period of guarantee/warranty, where applicable, should be specified in the bid.
- 2.9 If the successful bidder, on receipt of the supply order, fails to execute the order within the stipulated period, in full or part, it will be open to the Director, NIT, Rourkela to recover liquidated damage from the firm at the rate of 1 percent of the value of undelivered goods per month or part thereof, subject to a maximum of 5 percent of the value of undelivered goods. Alternatively, it will also be opened to the Director, to arrange procurement of the required goods from any other source at the risk and expenses of the bidder.
- 2.10 The successful bidder may be required to execute a contract, where applicable.
- 2.11 The bidder has to furnish up to date GST and Income Tax Clearance Certificate along with the bid.
- 2.12 Payment (*100 percent*) will be made by Account Payee Cheque/Bank Draft, within 30 days from the date of receipt of the goods in good condition or receipt of the bill, commissioning of the equipment, where applicable, whichever is later/latest.
- 2.13 In case of Advance payment, the payment will be made on either in Foreign Demand Draft or Wire Transfer only. The proforma invoice copy need to be sent for advance payment.
- 2.14 In the event of any dispute arising out of the bid or from the resultant contract, the decision of the Director, NIT, Rourkela shall be final.
- 2.15 The bid document/resultant contract will be interpreted under Indian Laws.

**1.Specification for Computerised Touch Screen Vickers Hardness Tester**

<b>Computerized Touch Screen Based Vickers Hardness Testing Machine</b>	
<p>The Vickers hardness test method consists of indenting the test material with a diamond indenter, in the form of a right pyramid with a square base and an angle of 136 degrees between opposite faces subjected to load. The full load is normally applied for 10 to 15 seconds. The two diagonals of the indentation left in the surface of the material after removal of the load are measured using a microscope and their average calculated. The area of the sloping surface of the indentation is calculated. The Vickers hardness is the quotient obtained by dividing the Kgf load by the square mm area of indentation.</p> <p>The Vickers hardness testing machine is a simple and accurate means to produce and measure the diamond indentation. The machine is suitable for measuring the hardness of precision metallic parts With wide testing range – from soft to hard.</p>	
<b>Technical Specifications and Features Required :</b>	
Total Load	1, 5, 10 ,20, 30, 50 Kgf
Digital Hardness value Measurement through PC	Yes
Diagonal Measuring Range (mm)	0.05-0.3
Max. Test Height (mm)	200 or better
Depth of Throat (mm)	135 or better
Optical Measuring Range	0.1-1 mm
Scale Least count(mm)	0.001
Standard	IS 1754-2002 or above
Features	Online indentation setting and focus on PC monitor, User friendly software with windows features, Direct & accurate measurement of Vickers hardness number using “State of the art”image processing technology, Motorized loading and unloading cycles.
Additional accessories	Standard Test Block (01), Diamond Indentors (02), Weights (2 sets), Flat anvil (01), Vee type Anvil (Big & small) (01each), Spanners (02), Electric cord & PC interface cord (01), Video capture (01), Software (01),Instruction manual (02), Machine Cover (01), Reference Test Blocks
Touch Screen Computer System	Tablet touch screen LCD based Windows PC (Dell/HP/Lenovo/Acer/ Branded) capable of supporting the system software and also interfacing with the controller hardware and having output, HDMI and other type port for printer output, pdf format. <b>Full details of each component to be provided.</b>
Installation, NABL Calibration & Commissioning	The bidder should take full responsibility for supply, erection and installation and training of the Machine at the department and performance of the machines demonstrated to the satisfaction of the users. Necessary fittings and fixtures required for the installation will be in the scope of the bidder only.

<p>Maintenance and service support of system during and after the warranty Period</p>	<ul style="list-style-type: none"> <li>➤ The bidder should provide the list of users of the same machine (viz. IITs, NITs, Govt Universities reputed national Labs like DRDO, NAL etc., reputed public limited firms) along with the satisfaction certificate and their contact details.</li> <li>➤ Details of the nature of service support the vendor can provide should be provided.</li> <li>➤ Warranty should be for at least one year after installation.</li> <li>➤ The bidder should commit to provide maintenance service and supply necessary spares for the machine for at least 10 years after successful installation and commissioning.</li> <li>➤ One set of operation and maintenance manuals along with all necessary drawings should be supplied along with the machine.</li> <li>➤ Specimen samples for all the tests that can be performed on the machine must be provided.</li> <li>➤ The bidder should enclose all the relevant technical documents and catalogues for all the components.</li> <li>➤ There should be OEM or Authorized agency in India for at least the last 3 years to ensure strong ties inside India for future maintenance/warranty convenience for the machine</li> <li>➤ Bidders not providing point wise detailed technical specifications of the offered machines in the compliance statement shall be summarily rejected.</li> <li>➤ Bidder should arrange pre award demo during technical evaluation if required. Institute has the right to reject the bid if pre award demo is not found up to the satisfactory level.</li> </ul>
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**Others**

- Warranty: 12 months standard warranty from the date of installation.
- Bidders must provide user details of at least 5 national level premier institution of repute where similar instruments were supplied.
- Scanned copy of technical brochure and website reference of the same must be included in the bid.

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