



**NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA – 769 008, ODISHA**

Advertised Tender Enquiry

Department: Food Process Engineering

Tender Notice No: NITR/PW-SR/FP/2020/189

Date: 25/06/2020

To

Important Dates

Bidding Through

CPP Portal

(e- Procurement)

(<https://eprocure.gov.in/eprocure/app>)

Event	Date	Time
Pre-bid Conference	NA	NA
Last date of submission of bid	16/07/2020	03:00 PM
Date of opening of Techno-commercial bid	17/07/2020	03:00 PM

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: Prof. Sushil Kumar Singh
(Assistant Professor)
Department of Food Process Engineering
National Institute of Technology
Rourkela-769 008, Odisha.
Phone: 0661 246 2908
Email: singhsk@nitrkl.ac.in

Yours sincerely,

Sd/-
Dr. Sushil Kumar Singh
(Assistant Professor)
Dept. of Food Process Engineering
PID: - SR/19/FP/053

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
1.	Purchase of Texture Analyser (As per the specification attached in Annexure –I)	1 Unit

2. Specifications and allied Technical Details: As per the specification attached in the **Annexure-I**

3. Format of Quotation (tick appropriate box)

It is a two-part 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 date of opening of techno-commercial bid.

6. Some important dates:

i.	Pre-bid Conference	Date: NA	Time: NA
ii.	Last date for submission of bid	Date: 16/07/2020	Time: 03:00 PM
iii.	Opening of techno-Commercial bid	Date: 17/07/2020	Time: 03:00 PM

7. **Warranty** as per company policy.

8. **Technical Evaluation Criteria:** As per the detail equipment technical specifications given in Annexure –I. If required, the bidder may be asked to provide clarification regarding the technical aspects.

Other Qualification criteria:

- Complete technical specification of the instruments and its necessary parts and accessory items required for running the instrument.
- Minimum 02-04 numbers of Certificates of Installation of above instrument (Texture Analyser) from any NIT / IIT / government laboratories are to be submitted
- Scanned copies of the technical brochure of the above equipment and accessories (as per technical specification) given in the quotation must be included in the techno-commercial bid
- Make, model and specification of the list of equipment as mentioned in schedule of requirement.

9. **Financial Bid Evaluation Criteria:** The comparison will be made for award of contract on the overall price basis.

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

11. **Bid security/EMD & Tender cost: Tender cost (Non- refundable)** in the shape of Demand Draft for **INR 500/- (Rupees Five Hundred only)** in favor of "**Director, NIT Rourkela**" Payable at Rourkela from any Scheduled Commercial Bank except Co-operative and Gramin bank. **Bid Security/EMD** in the shape of Demand Draft for **INR 34,000/- (Rupees Thirty Four Thousand only)** in favor of "**Director, NIT Rourkela**" Payable at Rourkela from any Scheduled Commercial Bank except Co-operative and Gramin bank. And DD for the Bid security/EMD should remain valid for a period of 45 days beyond the bid validity period from the date of opening of bids. Bid security/EMD of unsuccessful bidders should be return to them at the earliest and latest on or before the 30th day after the award of the contract. Tender cost & Bid Security/EMD should reach physically through speed post/ register post/courier, containing in an envelope

& superscripted with subject, tender reference number addressing to **Registrar, NIT Rourkela- 769008, Odisha**; on or before **17/07/2020 at 03:00 PM**.

- 12. Performance Security: INR 85000/- (Rupees Eighty-Five Thousand Only)** in shape of Demand Draft (DD)/Bank Guarantee in favour of **"Director, NIT Rourkela"** and payable at Rourkela from any Scheduled Commercial Bank except Co-operative and Gramin bank. Performance security should remain valid for a period of **60 days** beyond the date of completion of all contractual obligations of the suppliers including warranty obligation. Performance Security should be submitted within 15 days from the date of receipt of Order. And EMD (Earnest Money Deposit) amount of successful bidder will be return after the receipt of performance security in case of award of contract to successful bidder.
- 13.** Please go through the enclosed "bid document" carefully for other bidding instructions.
- 14.** Please send your quotations through: <https://eprocure.gov.in/eprocure/app>
- 15.** For technical details, you may contact

Dr. Sushil Kumar Singh
(Assistant Professor)
Department of Food Process Engineering
National Institute of Technology, Rourkela – 769 008
Phone: 0661 – 2462908
E-mail: singhsk@nitrkl.ac.in

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



**NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA – 769 008, ODISHA**

BID DOCUMENT

1 Instructions to the bidders

- 1.1** Bids are invited on behalf of the Director, National Institute of Technology (NIT), Rourkela–769008, ODISHA, from the intending bidders for supply of the goods/stores/ equipment 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, s/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 into 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 fulfil technical specification, his/her eligibility will be cancelled even if his/her price got L1 status.
- 1.12** Bidders registered with any of the following agencies/ bodies as per Public procurement policy for Micro & Small Enterprises (MSE) order 2012 are exempted categories from payment of EMD provided that the registration Certificate issued by any one of these below mentioned agencies must be valid as on close date of tender. Micro small or medium enterprises who have applied for registration or renewal of registration with any of these agencies/bodies but have not obtained the valid Certificate as on close date of tender are not eligible for exemption.
 - i) Khadi and Village Industries Commission (KVIC)
 - ii) National Small Industries Corporation (NSIC)
 - iii) Any other body specified by Ministry of MSME/GOI

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 including 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, etc., when quotes separately are reimbursable at actuals. 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 availing custom duty exemption in terms of Notification No. 51/96 – Customs dt. 23.07.1996, Notification No. - 47/2017- Integrated Tax (Rate) dt. 14.11.2017 and Notification No- 45/2017 – Integrated tax (Rate) dt. 14/11/2017 & Notification No. - 45/2017- Central tax (Rate) dt. 14.11.2017, Notification No. - 45/2017- Union Territory Tax (Rate) dt. 14/11/2017 [Vide DSIR, Ministry of Science and Technology, Government of India, Registration No.: TU/V/RG- CDE (227)/2016, dated: 13.11.2018]

- 2.3** The goods are required to be delivered at the indenting Department of NIT, Rourkela, and must be reached within **90 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 as mentioned in schedule of requirements in the tender documents.
- 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 the event of any dispute arising out of the bid or from the resultant contract, the decision of the Director, NIT, and Rourkela shall be final.
- 2.14** The bid document/resultant contract will be interpreted under Indian Laws.

DETAILED TECHNICAL SPECIFICATION AND QUANTITY**Purchase of Texture Analyser**

Sl. No.	ITEM NAME	TECHNICAL DESCRIPTION	Quantity
1.	Texture Analyser	<p>Specification:</p> <p>Application:</p> <p>An Instrument for the determination of Texture, effect of viscosity, rheology / stress-strain behaviour, Measurement of hardness, softness and stickiness, brittleness, cutting force, shearing, consistencies and penetration force of Food products.</p> <p>The Instrument should be able to measure hardness, firmness, stress relaxation, chewiness, cohesiveness, elasticity, tenderness, brittleness, freshness etc. Existing application studies for these parameters, conducted on the offered equipment must accompany the quotation.</p> <p>Functional Requirements:</p> <p>(1) Texture Analysing System of load frame of 100Kg with load cell of 100Kg with facility to attach multiple load cells on the same frame. The instrument should have following basic product specifications:</p> <ul style="list-style-type: none"> • Capacity: 100Kg • Load cells: 100 Kg • Load cell accuracy: 0.5% of reading • Force Resolution: 0.1g • Distance Resolution: 0.0005mm • Speed Range: 0.01 to 20mm / second • Speed accuracy: better than 0.1% • Touchscreen Data Acquisition Rate: 2000 points per second • Software Data Acquisition rate: 0.1 to 500 points per second • Overall height: 670 mm • Firmware updates: via PC • PC Interface: USB • Load cells should store their unique calibration and identification information in 'onboard' non- volatile memory. • There should be provision for factory and user calibration of force. <p>(2) Instrument should be computer controlled through compatible windows-based software with following features:</p> <ul style="list-style-type: none"> • The software must have the facility to modify the distance being traveled by the probe during the test to account for the bend compensation and frame deflection. • The software must have the facility to hold the constant force applied for the duration of the test by either increasing or decreasing the test speed proportionally, differentially or integrally. • The software should detect and then the speed of the Instrument should change proportionally to the product height during the test rather than testing at constant speed. • The software should have the facility to write a macro i.e. an English language programme which enables a user to do routine calculations automatically. • The software should have feature to measure area, gradient, mean, time difference, ratio, travel, count positive peak, count negative peak, dispersion, average drop of, volumic mass, force maxima and force minima. The supplier must confirm categorically how each of 	1 unit

		<p>these parameters are calculated using the software which is offered.</p> <ul style="list-style-type: none"> The software should have the feature to mark events like fracture, first peak, maximum force etc. <p>(3) Texture Analyser should have provision to attach Peltier plate, Powder Flow Analyser and Acoustic detector. A documentary proof is required in this respect.</p> <p>Accessories required with the Instrument:</p> <ol style="list-style-type: none"> Platform for samples Software with above features 75mm Compression plate for general purpose compression tests Cylindrical probes (2mm and 5mm) for penetration test Blade set for cutting and shearing test 36mm cylindrical probe for determination of bread firmness using the AACC (74-09) Standard method Cooked Pasta Rig for firmness of pasta 3-point bend rig for snap test Back extrusion rig for semi liquid material <p>Compatible Computer system (Windows 10) with printer and UPS should be supplied with the instrument to run the software.</p> <p>Mandatory Requirements:</p> <ul style="list-style-type: none"> The supplier will be required to install the equipment and accessories completely in place and also demonstrate the Instrument and the software vis-à-vis the tender specifications. Training will also be required to be given to the users on the operation and applications on different food products, at the time of installation. The manufacturer must have supplied sufficient number of Texture Analysers for Food and Agricultural applications. 	
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