



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

**Advertised Tender Enquiry**

**Department: Life Science**

**Tender Notice No: NITR/PW/LS/2019/94**

**Date: 14/02/2019**

**To**

**Important Dates**

**Through  
CPP Portal  
(eProcurement)**

<b>Event</b>	<b>Date</b>	<b>Time</b>
<b>Pre-bid Conference</b>	<b>-NA-</b>	<b>-NA-</b>
<b>Last date of submission of bid</b>	<b>07/03/2019</b>	<b>11:00 AM</b>
<b>Opening date of technical bid</b>	<b>08/03/2019</b>	<b>11:00 AM</b>

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 technical query contact to

Attention: Dr. Bibekanand Mallick  
HOD, Department of Life Science  
National Institute of Technology  
Rourkela – 769 008, Odisha  
Phone: 0661 – 2462685  
Email: [mallickb@nitrrkl.ac.in](mailto:mallickb@nitrrkl.ac.in)

Yours sincerely,

\_\_\_\_\_  
Name: Dr. Bibekanand Mallick  
(PIC)

**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	<b>Real Time PCR System</b>	1

2. **Specifications and allied Technical Details**

For detailed specification see **Annexure 1**  
Submit list of users along with the quotation.

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

It is a two-part bid with separate technical 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:**

i.	<b>Pre-bid Conference:</b>	<b>Date: NA</b>	<b>Time: NA</b>
ii.	<b>Last date for submission of bid</b>	<b>Date: 07/03/2019</b>	<b>Time: 11:00 AM</b>
iii.	<b>Opening date of technical bid</b>	<b>Date: 08/03/2019</b>	<b>Time: 11:00 AM</b>

7. **Warranty:** Warranty must be at least **3 years** onsite on parts (both hardware and software) which should be clearly mentioned along with the quotation.

8. **GST** should be charge according to applicable rates (if applicable).

9. **EMD and Tender Cost:** - **EMD (Earnest Money deposit)** in shape of DD (Demand Draft) for INR 32,000/- (Rupees Thirty Two Thousand Only) and Tender Cost (Non- refundable) in the form of DD for INR 1000/- (Rupees One Thousand Only) in favour of **Director, NIT Rourkela Payable at Rourkela** from any Scheduled Commercial Bank except Co-operative and Gramin bank. EMD (Earnest Money deposit) of unsuccessful bidders will be returned to them at the earliest and latest on or before the 30th days after the award of the contract. EMD (Earnest Money deposit) and Tender Cost 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; Attention: HOD(LS) on or before 08/03/2019 at 11:00 AM.**

10. **Performance Security: Not Applicable**

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

12. Please send you quotation through <https://eprocure.gov.in/eprocure/app>

13. For technical details, you may contact

Dr. Bibekanand Mallick  
HOD, Department of Life Science  
National Institute of Technology, Rourkela – 769 008  
Phone:0661-2462685  
E-mail: [mallickb@nitrkl.ac.in](mailto:mallickb@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 – 769 008, Orissa, 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 tender document.
- 1.5 The Bid should be uploaded in <https://eprocure.gov.in/eprocure/app>. Please follow the guideline 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 Para1.4 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 nonresponsive.
- 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 are acceptable.

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

- 2.1 The rates quoted should preferably be net, inclusive of all taxes and duties, packing, forwarding, freight, Insurance and all other incidental charges. 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- Central tax(Rate) dt. 14.11.2017[Vid 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 **45 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 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.

**Technical specification for Real Time PCR System**

The system should be complete with the following features & specifications:

1. The system should be automated integrated 96 well peltier based for both real-time PCR and post-PCR (end-point) analysis with 6 independently controlled zones/ Gradient/ or supplied with additional gradient PCR.
2. It should have interactive touch screen LCD for standalone operation with 8- 10GB onboard memory for storage of at least 1600- 2000 runs.
3. System should support minimum recommended reaction volume of 10–30 µL/10–100 µL for 0.1/0.2 mL block.
4. The Quoted System Should support the temperature range from 4°C to 100°C with block ramp more than 6 DegC/sec, and run time less than 40 minutes.
5. System should have six de-coupled excitation and emission filter sets to enable collection of up to 21 unique combinations of wavelengths during a single run for multiplexing five colors or above.
6. The System should utilize a bright white LED source, excitation by LED source with a > 5 years lifespan and detection by CMOS/CCD with whole plate imaging and detection.
7. The system should be factory calibrated for the following FAM™/SYBR™ Green, VIC™/JOE™/HEX™/TET™, ABY™/NED™/TAMRA™/Cy™3, JUN™, ROX™/TexasRed™, Mustang Purple™, Cy5™/LIZ™, CY™5.5 dyes.
8. System should support various real-time quantitative PCR applications, including gene expression analysis, using relative standard curve, comparative Ct ( $\Delta\Delta Ct$ ) for relative quantitation, standard curve for absolute quantitation allelic discrimination (SNP), dissociation curve analysis, pathogen detection, multi-plate with multiplex capability for gene expression/ genotyping study, HRM etc.
9. Features to assist with 21 CFR part 11 compliance Security, auditing and e-signature, CE, ISO, and MIQE compliant.
10. System can perform single-plate analysis Absolute and relative gene expression, SNP genotyping, presence/absence, high resolution melt, Multiplate analysis Gene expression studies, SNP genotyping studies.
11. System detection should be accurate down to 1.5 fold range or 1 copy of template, and a dynamic range of up to 10 orders of magnitude

12. The normalization of reaction due to non-PCR related fluctuations should be possible by using any calibrated dye.
13. With at least Three years warranty on parts (both hardware and software).
14. System should come with laptop with data analysis software (15" Laptop with 16GB RAM, Intel core i5 processor 2.6 GHZ 250 GB HDD, Windows 7 Professional SP1 64 bit)
15. The system should come along with 2 KVA Online UPS with 30 min back up, with at least One year warranty.
16. The system should also be supplied with a microfluidic quantitation tool to quantitate DNA, RNA, Protein and oligonucleotides with sample volume of 1-2  $\mu$ l for nucleic acid quantification, No consumables needed– pipette directly onto the pedestal sample-retention system, standalone design with local Control and high-resolution touchscreen interface saves bench space.

Enhanced connectivity with data transfer via USB, Ethernet, Bluetooth® and Wi-Fi options; PC software available for data management, detector CMOS linear image sensor. System must be capable of discriminating between molecules of interest using spectral protocol with wavelength range: 200–800 nm and intuitive operation via the full-color integrated touchscreen.

17. The equipment must be delivered at the site at NIT Rourkela by the firm. Hence, clearing and forwarding / transportation of the consignment are the responsibility of the firm. NIT Rourkela will be providing only necessary documents for this purpose.

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