



**CENTRAL INSTRUMENTATION FACILITY  
NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA – 769 008, ODISHA**

**Advertised Tender Enquiry**

**Tender Notice No: NITR/PW/CIF/2018/68**

**Date: 08.10.2018**

**Department: Central Instrumentation Facility**

**Through,**

**Important Dates**

**CPP Portal  
(E-procurement)**

Event	Date	Time
Pre-bid Conference	NA	NA
Last date of submission of bid	<b>01.11.2018</b>	<b>03:00 PM</b>
Date of opening of technical Bid	<b>02.11.2018</b>	<b>03:00 PM</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 clarification

**Attention.:** Prof. Mukesh Kumar Gupta,  
Department of Biotechnology & Medical Engg.  
NATIONAL INSTITUTE OF TECHNOLOGY  
ROURKELA – 769 008, ODISHA  
E-mail: [guptam@nitrkl.ac.in](mailto:guptam@nitrkl.ac.in)

Yours sincerely,

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Prof. Mukesh K. Gupta  
Department of Biotechnology and  
Medical Engineering

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.	3D Bioprinter with Accessories <b>(Detailed specification as per attached Annexure – I)</b>	01 unit

**2. Specifications and allied Technical Details**

As per Annexure I
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**3. Format of Quotation** (tick appropriate box)

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

OR

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:**

Event	Date	Time
Pre-bid Conference	NA	NA
Last date of submission of bid	01/11/2018	03:00 PM
Date of opening of technical bid	02/11/2018	03:00 PM

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

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

**9. 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** Payble at Rourkela from any Scheduled Commercial Bank except Co-operative and Gramin Bank. Tender cost should reach physically through speed post/ registered post/ courier, containing in an envelope & superscripted with subject, tender reference number addressing to **Registrar, NIT Rourkela – 769008, Odisha;** Attention: HOD (CIF) **on or before 02.11.2018 at 03:00 PM**

**10. Bid Security : Not Applicable**

**11. Performance Security: Not Applicable**

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

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

**14.** For technical details, you may contact

<p><b>Prof. Mukesh K. Gupta</b> Department of Biotechnology and Medical Engineering, National Institute of Technology Rourkela – 769 008 Phone: 0661 – 2462294, Mobile No: +91 7873482264, Fax: 0661-2462926 E-mail: <a href="mailto:guptam@nitrkl.ac.in">guptam@nitrkl.ac.in</a></p>
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**NB: Please furnish your Dealership Certificate (must) and Proprietary Nature Certificate (If applicable)**



**CENTRAL INSTRUMENTATION FACILITY**  
**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, Odisha, 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 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.
- 1.10 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 exempted 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.**

- 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 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.

**(Detailed Specification of 3D Bioprinter with Accessories)**

A complete system of benchtop 3D Bioprinter, including operating software and accessories, for bioprinting of living cells, proteins and biomaterials such as collagen, bio-gels etc. to biofabricate three-dimensional living tissue.

The detailed specifications are as follows:

- The bioprinter should be capable of directly bioprinting the living cell suspensions into hydrogels, bio-gels or other biomaterials such as collagen, gelatin, fibrin, polyethylene glycol, Pluronic F-12 etc. to build three-dimensional human parts such as lattices, cell culture, blood vasculature, cartilages etc. with a resolution of 100 micron or better.
- It should use compressed air or other cell-friendly technology to force the living cells to go from the nozzle and build the cell layers without significantly affecting the cell viability.
- Building platform: The system should be able to bioprint onto multi-well plates, petri dishes or other platform attachments which could be fixed to minimize vibrations to printed parts.
- Print heads: Living cell-friendly heated pneumatic/ Ink-jet/ Thermoplastic filament extruder/ Cooled pneumatic/ Extra heated pneumatic/ Syringe pump print head with Photo curing tool head. At least 4x Heated pneumatic print head and 2x Syringe pump print head should be provided.
- Filter: HEPA or ULPA or similar filter with a retention rate of 99.9% or better with or without pre-filter.
- Software: Compatible operating software package for 3D designing with STL converter, 3D printing and dispensing control should be integrated with the system. Desktop PC or Laptop with suitable configuration for compatibility with 3D designing should be provided.
- Body Frame: Coated aluminum or metal frame body that can be placed on to a lab/customized stand.
- Electrical conditions: The machine should be operable at standard electrical settings of India. Suitable online UPS should be provided to operate the machine for at least 1 hour in electrical failure.
- The equipment must be provided with at least one year of warranty and all accessories, including online UPS, to allow immediate use after installation and operation electrical settings of India (220-240 V).

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