



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

**Advertised Tender Enquiry**

**Department: Chemistry**

**Tender notification no: - NITR/PW/CY/2019/132**

**Date: 09/07/2019**

**Important Dates**

To

**Through  
CPP Portal  
(E-procurement)**

<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>05/08/2019</b>	<b>11:00 AM</b>
Date of opening of techno-commercial bid	<b>06/08/2019</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 through e-procurement module available in CPP portal.

For any clarification:

**ATTENTION:**

Principal Investigator: **Dr. Madhurima Jana**  
Department of Chemistry  
NATIONAL INSTITUTE OF TECHNOLOGY  
ROURKELA – 769 008, ODISHA  
Phone: 0661 - 2462663  
E-mail: [janam@nitrkl.ac.in](mailto:janam@nitrkl.ac.in)

Yours sincerely,

\_\_\_\_\_  
Name: Madhurima Jana  
Assistant Professor

**Encl:**

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

**1. Schedule of requirements**

Item No	DESCRIPTION	Quantity
1	<b>High performance computing cluster solution as per details in Annexure-I</b>	1 Unit

**2. Specifications and allied Technical Details**

\* Please see Annexure - I

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

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 date of opening of techno-commercial bid.

**6. Some important dates:**

i. Pre-bid Conference	Date: <b>NA</b>	Time: <b>NA</b>
ii. Last date for submission of Bid:	Date: <b>05/08/2019</b>	Time: <b>11: 00 AM</b>
iii. Date of opening of techno-commercial bid:	Date: <b>06/08/2019</b>	Time: <b>11:00 AM</b>

**7. Warranty** of minimum **03** years must be provided.

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

**9. Bid Security and Tender Cost:** Bid Security in shape of DD (Demand Draft) for **INR 50,000/- (Rupees fifty Thousand Only)** and Tender Cost (Non- refundable) in the form of DD(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. Demand Draft for the Bid-Security should remain valid for a period of **45 days** beyond the bid validity period from the date of opening of bids. Bid security of unsuccessful bidders should be return to them at the earliest and latest on or before the **30<sup>th</sup> days** after the award of the contract. Bid security 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(CY) on or before 06/08/2019 at 11:00 AM.**

**10. Performance Security: Rs. 1,25,000/-** (Rupees One lakh twenty-five thousand Only) in shape of Bank Guarantee/Demand Draft (DD) in favor of Director, NIT Rourkela 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 supplier including warranty obligation. And EMD (Earnest Money deposit) amount of successful bidder will be returned after the receipt of performance security in case of award of contract to successful bidder.

**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

**Dr. Madhurima Jana**  
Department of Chemistry,  
National Institute of Technology,  
Rourkela - 769 008  
Phone: 0661 - 2462663  
E-mail: [janam@nitrkl.ac.in](mailto:janam@nitrkl.ac.in) ,  
[madhurima.mml@gmail.com](mailto:madhurima.mml@gmail.com)

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



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ROURKELA – 769 008, ORISSA**

**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/ 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, 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.

**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 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 **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 after delivery) will be made by Account Payee Cheque /Bank Draft, on delivery and after successful completion of training, installation, configuration, testing, and implementation with existing infrastructure and proper verification of high performance computing cluster 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 The quoted price will be up-to CIF Kolkata in case of from foreign supply(foreign bid). Exchange rate will be considered for evaluation on the basis of the date of financial bid opening.
- 2.15 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.
- 2.16 The bid document/resultant contract will be interpreted under Indian Laws

<b>A. Detailed specifications of the Equipment High Performance Computing (HPC) Cluster Solution</b>		
<b>I. Master Node (Qty. 1)</b>		
1.	Processor	2 x Intel® Xeon® processor Scalable SKL-SP 6140 18C/36T 2.3G 24.75M 10.4GT UPI
2.	Memory	128 GB DDR4-2666 ECC RDIMM
3.	HDDs	8 TB Hot-swap SATA Drive , configured as RAID (hardware RAID)
4.	RAID	On Board SW Raid - RAID 0,1,10
5.	Gigabit Ethernet	Intel® i350 Dual Port Gigabit Ethernet with suitable cable(s),
6.	Optical	Internal DVD RW drive
7.	Chassis	2U Rack Mountable chassis with sliding railkits
8.	Graphics	ASPEED AST2500 BMC
9.	Management	IPMI 2.0 compliant with dedicated port. Supports KVM over LAN and Virtual Media redirection, Nuvoton WPCM450 BMC
10.	PCI	As per manufacturing specifications and requirements
11.	Cooling Fan	Inbuilt cooling fan/ Hot pluggable will be acceptable
<b>II. Computing Node Architecture (Common features for all nodes): 4 nodes</b>		
12.	Processor	2 x Intel® Xeon® processor Scalable SKL-SP 6140 18C/36T 2.3G 24.75M 10.4GT UPI
13.	Memory	128 GB DDR4-2666 ECC RDIMM
14.	HDDs	1 x 1000 GB Enterprise SATA,SATA Support, 3x Hot-swap SATA Drive Bays.
15.	Gigabit Ethernet	Intel® i350 Dual Port Gigabit Ethernet with suitable cable(s),
16.	Management	IPMI 2.0 compliant with dedicated port. Supports KVM over LAN and Virtual Media redirection, Nuvoton WPCM450 BMC
17.	PCI	As per manufacturing specifications and requirements
18.	Port connectivity	Minimum of 1 * internal USB 2.0 port
19.	Power supplies	2200W Redundant Power Supplies Titanium Level (96%)
<b>III. Miscellaneous Hardware and Software</b>		
20.	Management suit	Should be possible to manage the servers and get access to critical information about the health of the server from any remote location with just the help of a standard Web browser (Internet Explorer).
21.	Remote system management	Hardware based and OS independent remote management. Remote management should support remote power on/off of the server and should have the capability to boot the server from a remote floppy or CDROM drive or an image of the same.
22.	Extra features	If the vendors provide anything extra on hardware or software that should be highlighted clearly

<b>IV. Softwares and Compiler to be Installed for HPC</b>		
23	Software suit and compilers	<ul style="list-style-type: none"> <li>• Compilers including parallel version, development tools like debuggers &amp; profilers including parallel version and libraries for MPI based programming.</li> <li>• Parallel NAMD, AMBER, GROMACS, GAUSSIAN09, LAAMPS software should be installed.</li> <li>• Open source suitable Cluster management Software for Cluster management and provisioning</li> </ul>
24	LAN access	System should be integrated with instate LAN for operation and user access.
<b>B. Warrantee</b>		
25	Period	3-year Parts, 3-year labour, 3-year on-site Supports
<b>C. Support</b>		
26	3 year remote telephone support for system administration and at most three physical supports per year.	
27	Post-sell service	The vendor must submit the names of the service engineers employed by them who are competent to service the HPC installation along with their contact details in India
<b>D. Training</b>		
28	Training at NIT, Rourkela	Administrator training for system administration and training for HPC programming using MPI libraries for users.
<b>E. Other Requirements</b>		
29	<p>Installation and system integration</p> <ul style="list-style-type: none"> <li>• The vendors should give an estimate of the time required for installation, fine-tuning of the cluster and hand-holding/training of the principal users in the technical bid. The installation should be done in the existing rack of an existing HPC cluster.</li> <li>• User quota setting for the NFS mounts</li> <li>• Entire HPC setup and running sample programmes for testing the HPC</li> <li>• User hand holding documentations</li> </ul> <p><b>Installation and Commissioning:</b> Free of cost at NIT Rourkela. The vendors are required to give an estimate of the time required for installation fine-tuning of the cluster and hand-holding/training of the principal users in the bid. The vendors will be responsible for setting up of High Performance Linux Cluster based on Enterprise Linux OS or equivalent (to be provided by vendor). It will be highly desirable if the vendor has proven capability to install some commonly used open-source scientific software.</p> <p><b>Compliance List:</b> The vendor must submit a technical brochure and proper application notes adequately explaining and confirming the availability of the features in the components quoted.</p> <p>The vendor must also submit a table indicating the compliance of the features of the model of the components being quoted with those given in the indent. In case of non-compliance against a particular item, the vendor should justify that.</p> <p>Additional features in the quoted items which are better than those in the indent – may be highlighted</p> <p><b>Details of the configuration and deviation must be provided along with technical bid.</b></p>	

**Other Qualification Criteria:**

1. At least 5 contacts from IIT/ NIT/IISER/reputed Indian institute/Govt. R&D organizations must be provided where the above equipment and accessories (**Annexure-I**) have been supplied in last five years. Scan copies of the minimum five purchase orders of the above equipment and accessories (**Annexure-I**) must be enclosed along with the technical bid.
2. The bidder must have infrastructure support in the form of direct service centers at Kolkata/Bhubaneswar/Raipur/Rourkela. The bidders must enclose details of their infrastructure with reference to locations and technical manpower, availability of inventory spares etc.
3. Scanned copies of the technical brochure of the above equipment and accessories (**Annexure-I**) given in the quotation must be included in the technical bid.
4. Web references must be provided along with the technical bid.
5. Point-wise technical compliance along with any deviation of the mentioned specifications (**Annexure-I**) must be indicated along with technical documents.
6. Make and model no. should be mentioned in the technical bid.

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