

**National Centre for Nanosciences & Nanotechnology University of Mumbai
(NCNNUM)**



National Center for Nanosciences and Nanotechnology, University of Mumbai, (NCNNUM),
New Building, Near Examination House, Vidyanagari, Santacruz (E), Mumbai 400 098, India.

Tel: +91 22 2653 0299 / +91 22 2654 3574, Email: director@nano.mu.ac.in

Tender Document for

Water Chillers

No: NCNNUM / Tender/ 422 / 5 / 2014

Date: 25th September, 2014

Part A - Terms and Conditions

Part B – Specifications

Price: Rs. 500/- (non refundable)

Important Dates:

Last date of Sale of Tender Document:	15th October, 2014, 4 pm
Last Date of Receiving sealed Bids:	15th October, 2014, 5 pm
Technical Bid opening (if minimum three bids are received):	18th October 2014, 11 am
First extension of two weeks starts, if less than three bids received in the first extension:	16th October, 2014
Last date of the first extension. (Opening of Technical Bids on the next working day, if three bids received):	30th October, 2014, 5 pm
Second extension of two weeks starts, if less than three bids received in the first extension:	1st November, 2014,
Last date of the second extension (Opening of Technical on the next working day, even if less than three bids are received):	15th November, 2014, 5 pm

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Part A - Terms and Conditions

Tender Notice

National Center for Nanosciences and Nanotechnology, University of Mumbai, (NCNNUM),
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Tel: +91 22 2653 0299 / +91 22 2654 3574, Email: director@nano.mu.ac.in

NCNNUM/ 422 / of 2014

Date: 25th September, 2014

Sealed Tender bids for the **Water Chillers** for National Center for Nanoscience and Nanotechnology, University of Mumbai are invited for and on behalf of University of Mumbai by the Director, NCNNUM. Following schedule shall be maintained for various processes.

Last date of Sale of Tender Document:	15th October, 2014, 4 pm
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Tender Document containing terms and conditions and technical specifications are available in the Office of the National Center for Nanoscience and Nanotechnology, University of Mumbai, on all working days between 11:00 am & 4:00 pm from 25th September 2014 to 15th October 2014. Terms & conditions and technical specifications can also be downloaded. In case, the tender document is downloaded from the website, the Tender Document fee of Rs. 500/- should be enclosed in the Technical Bid Envelope, in the form of a Demand Draft drawn in favor of **“Finance and Accounts officer, University of Mumbai. (Kindly write your company name, instrument name and tender reference number on back of Demand Draft for Tender Fee).** The tender bids duly complete in all respects, along with the necessary documents should be submitted to: The Director, National Center for Nanosciences and Nanotechnology, University of Mumbai (NCCNUM). The technical bids so received, shall be opened in the office of The Director, (NCNNUM) in the presence of the representatives of the suppliers. Right to reject any or all tenders, without assigning any reason thereof is reserved by the NCNNUM, University of Mumbai.

Sd/-
Director, NCNNUM,

Terms and Conditions of Supply

1. Tenders from original manufacturers or their accredited suppliers will only be accepted.
2. The last date and time for the acceptance of the bids is as follows:

Last Date of Receiving sealed Bids:	15th October, 2014, 5 pm
Last date of Receiving sealed Bids in the case of the first extension:	30th October, 2014, 5 pm
Last date of Receiving sealed Bids in the case of the second extension:	15th November, 2014, 5 pm

3. Suppliers shall submit the following documents along with their quotations (**which should be placed in the Technical Bid Envelope, i.e. Envelope No. 1**).
 - (a) Income-Tax clearance certificate from the Income-Tax Officer concerned, certifying that the tenderer has cleared all the Income-Tax dues. Copies of Income Tax returns shall be applicable.
 - (b) Suppliers should be either manufacturer or authorized dealer of the said equipment and should submit the proof for the same. Also, the suppliers should state whether they are a Proprietary Firm, Partnership Firm or a Private/Public Limited Company and furnish the proof of the same.
 - (c) The names of the organizations and laboratories for which similar work carried out.
 - (d) Earnest Money Deposit in the form of a Demand Draft drawn in favor of **“Finance and Accounts officer, University of Mumbai”** on any Nationalized Bank, payable at Mumbai. Alternately, BG from a Nationalized Bank only may be acceptable. The amount of Earnest Money Deposit shall be ₹ 20,000/- (₹ Twenty thousand rupees only). **Kindly write your company name, instrument name and tender reference number on back of Demand Draft for EMD.**
 - (e) In case, the tender document is downloaded from the website, the Tender Document fee of ₹500/- should be enclosed in the form of a Demand Draft drawn in favor of **“Finance and Accounts officer, University of Mumbai”**
 - (f) VAT Registration No.
 - (g) Technical specifications offered by the Supplier.
 - (h) Technical compliance table
 - (i) Proprietary certificate, if any, should be included in the Technical bid
4. The rates should be mentioned in the **Schedule** attached with the Tender Document. Each page of the tender shall be signed in full and stamped with the seal by the supplier. The supplier must clearly state in what capacity he or she is signing the tender. **The rates / price should be inclusive of all machinery cost on CIF Mumbai basis, installation cost and the training. The item wise break up of cost should also be given.** The bidders

should quote tender without deviation, without any overwriting and duly signed & stamped on all pages. The supplier should send their techno-commercial representatives for the discussion with the NCNNUM appointed committee. The representative should be empowered to take financial decision on the spot.**(which should be placed in the Financial Bid Envelope, i.e. Envelope No. 2)**

5. The supplier shall submit the tender in two envelopes. The first envelope (Technical Bid) shall contain all the documents referred to in **para three above** and sealed. The second envelope (Commercial Bid) shall contain the **Schedule**, in which the supplier shall register the rates of supply. The second envelope shall also, likewise, be sealed. Both the envelope then should be put together, and shall be sealed in an envelope, and shall prescribe time and date. The Technical Bid shall be opened first to ensure that supplier have submitted all the requisite documents. If the Technical Bids are not in order or are deficient in some respect, the commercial bids in respect of such tenders shall not be opened. The date and time of opening the financial bids shall be announced immediately after opening all the Technical bids.
6. Tender bids not accompanied by the requisite amount of Earnest Money Deposit are liable to be rejected
7. The Earnest Money Deposit paid by the supplier shall be forfeited, if the supplier fails to pay the necessary security deposit in the event of his tender being accepted.
8. The amount of Security Deposit/Performance Guarantee shall be 5 % of the cost. Security Deposit / Performance Guarantee shall be refunded after the warranty period is over. The Security Deposit / Performance Guarantee can be paid in the form of a Bank Guarantee from a scheduled bank.
9. Supplier should read carefully all the instructions and terms and conditions, etc before registering rates in prescribed schedule of the tender. Taxes and duties etc, should be shown separately.
10. The offers made by the suppliers shall be open for acceptance within 90 days after the last date of submission of tender.
11. **The Technical Documents shall be opened** by The Director, National Center for Nanosciences and Nanotechnology as per the schedule shown above. The tenderers or their authorized representatives will be allowed to be present at the time of opening of the tenders. Financial bids of only qualified tenderers shall be opened. The date and time of opening the financial bids shall be communicated after the technical bids are

opened in due course.

12. In case of imported items/equipment, the rates should be quoted in the light of exemptions enjoyed by educational institutions. University is exempted from the payment of Octroi and the necessary certificate/form can be issued by the University.
13. Technical specifications of the instruments/equipment/articles are given in Annexure to these papers (Part B).
14. The delivery, installation of the works should be as per the terms and conditions mentioned in the order. No extension shall be granted to the contractors/suppliers for the period of delivery, under any circumstances. All drawings to be approved by NCNNUM. No change is allowed without written permission.
15. If the supplier fails to deliver the article as per the delivery schedule, the University of Mumbai shall be free to procure the balance/undelivered supply, at the risk and cost of the supplier, from other such suppliers
16. The goods, articles, materials supplied by the supplier shall be accepted after inspection by an officer authorized by the competent authority. No articles/materials which do not conform to the specifications laid down in the terms and conditions or damaged in transit accepted
17. Before tendering, the tenderer shall inspect the site to fully acquaint himself with the condition in regard to accessibility of site, working condition of site and locality including unloading of materials, installation of tools and plants, etc., required for the satisfactory execution of the work contract. No separate claim whatsoever on these accounts shall be entertained by the University of Mumbai. No claim for expenses incurred in the site visit will be entertained by the University of Mumbai
18. The bills of suppliers shall be paid by the University only after the complete installation of system as per the stated specification in the tender documents and certified test reports are submitted
19. Only those contractors who can execute the complete project including all the optional accessories shall submit their bids. Bids received for part work shall not be considered. Tenderers of the **“Water Chillers”** should provide the entire equipment as described in part B, and will be responsible for the design, development and installation of the complete instrument.

20. Missing of any required or any of the optional accessories / features / modules of the system will disqualify the vendor from technical bid and commercial bid.
21. The vendor must assume responsibility for any damage to equipment during the shipping process or unloading to NCNNUM
22. Vendor must submit Compliance statement in tabular form comparing each specification of the quoted item with that given in the Tender Document part B. The Vendor also must supply a soft copy of the Table only in Microsoft word format.
23. If the equipment is imported and requires PC, printer other peripherals, they can be bought from India and should be of International brand such as HP. The monitor should be LCD/TFT screen. The printer should be LaserJet printer. The processor should be Intel latest processor. The amount quoted for the items bought in India, installation; servicing etc. can be in Indian Rupees and the imported items can be quoted in foreign currency.
24. The warranty period shall be of 1 year from the date of complete and satisfactory installation of the system.
25. As the suppliers shall be responsible for the supply and installation of equipment at Mumbai, the cost towards insurance until destination in the University, shall be borne by suppliers.
26. The vendor has to provide clear compliance statement with respect to the specifications given in the tender document and fully supported by the manufacturer's original literature and part numbers. Any other claims will not be accepted and may lead to the rejection of the bid. It is mandatory to specify the part numbers of the quoted items along with the technical offer without which the subject offer would be liable for rejection.
27. In the event of any breach of the terms and conditions of the supply, the University of Mumbai may terminate the contract placed with the supplier and forfeit the security deposit of the supplier.
28. **Escalation:** No cost escalation over and above items rates quoted by the bidder will be entertained.
29. **Scope of Supply:** Detailed scope of supply, additional terms and conditions, technical

specifications etc. are enclosed with part-B of this tender document

30. **Deviations:** No deviation from the stipulated terms and conditions will be allowed. Tenders should be unconditional. Any deviation from the technical specifications and tender condition shall be mentioned in the technical bid separately.
31. **Correspondence:** All the correspondence in respect of tender / contractual obligation shall be made to The Director, National Center for Nanosciences and Nanotechnology, University of Mumbai, (NCNNUM), New Building, Near Examination House, Vidyanagari, Santacruz (E), Mumbai 400 098, India.
32. **Liquidated damages:** In case the supply/installation is delayed beyond the specified completion period for reasons attributable to the supplier, deductions on account of Liquidated damages @ 0.5% of the contract value per month will be deducted subject to a maximum of 5% of the total works.
33. Any dispute arising out of this contract will be subjected to jurisdiction at Mumbai, India.
34. Right to reject any or all tenders without assigning any reason there for is reserved by the NCNNUM, University of Mumbai. The decision of the Centre in this regard will be binding on all the bidders. Tenders not complying with any of the provisions stated in this tender document are liable to be rejected.

Schedule to Tender

Note:

1. Tenderers are advised to read carefully the Terms and Conditions of supply and "the Instructions to the Tenderers" before recording the rates in this schedule.
2. No erasures or overwriting shall be allowed, unless they are authenticated under the full signature and the seal of the tenderer.
3. The Rates shall be FOR, at destinations/godown/places indicated in the delivery

Item no	Description of goods with details of specifications	Number / quantity	Price / Rate per Unit	Taxes	Duties	etc

Signature of the Tenderer

Date:

Seal of the Firm

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No: NCNNUM / Tender/ 422 / 5 / 2014

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Part B – Specifications

Technical Specifications for Water Chillers.

System Description

- a. Supply, installation and performance demonstration of Chillers at National Centre for Nanosciences & Nanotechnology, University of Mumbai.
- b. The vendor must provide detailed specifications of the infrastructural requirements for the Water Chillers with the bid. Also the tender should provide the clear timeline by which the system will be shipped and installed. The systems should work at 50Hz, 200 – 240 V single phase.
- c. Independent Chillers having following capacity are required
 - i. Chiller of capacity of 10 TR
 - ii. Chiller of capacity of 5 TR

Specification of 5 TR Chillers

- a. Quantity: 02
- b. Rated Cooling Capacity : ~ 5.0 TR @ 15°C
- c. Temperature Stability : +/- 2°C
- d. Rated Ambient Temperature : 35°C
- e. Rated Flow Rate & Pressure ≥ 50 LPM, 6 Bar at Chiller Outlet
- f. Cooling Media : Clean Soft Water
- g. Operating Temperature Range : 10 to 25°C
- h. Operating Ambient Temperature : 10 to 45°C
- i. End Connection : 1" BSP
- j. Power supply : 1 Phase, 230V, 50Hz, Earthing
- k. Proper Safety interlocks for high/low pressure, low water trip, high/low temp trips etc
- l. Pressure regulator: 04

Specification of 10 TR Chillers

- a. Quantity: 02
- b. Rated Cooling Capacity : ~ 10.0 TR @ 15°C
- c. Temperature Stability : +/- 2°C
- d. Rated Ambient Temperature : 35°C

- e. Rated Flow Rate & Pressure ≥ 100 LPM, ≥ 7 Bar at Chiller Outlet
- f. Cooling Media : Clean Soft Water
- g. Operating Temperature Range : 10 to 25°C
- h. Operating Ambient Temperature : 10 to 45°C
- i. End Connection : 1" BSP
- j. Power supply : 1 Phase, 230V, 50Hz,
- k. Proper Safety interlocks for high/low pressure, low water trip, high/low temp trips etc
- l. Pressure regulator: 04

Deliverable Documents

All documentation shall be in English language. In addition to the hard copies, soft copies of the manuals shall be submitted vide – CD.

- a. System Operational Manual in print and CD
- b. System Maintenance Manual in print and CD

Optional Accessories

- a. 300 meters reinforced water piping
- b. Fasteners
- c. Tool kits
- d. Chiller stand

Annexure 'A' – Format for submitting un-priced BOQ along with technical bid

Tender No NCNNUM / Tender/ 422 / 05 / 2014

S No.	Description	Qty	Make / Model

Signature of the Tenderer

Date:

Seal of the Firm

Annexure 'B' – Format for submitting compliance/response of bidder

NCNNUM / Tender/ 422 / 05 / 2014

With reference to the technical details described in different sections of Part B, the bidder shall provide their compliance/response as below format. It should be clear that all the required and optional features must be clearly mentioned.

If the tenderer specification has **any deviations** from the specifications or details provided in any of the sections described in Part B needs to be clearly specified in the above table.

Signature of the Tenderer
Date:
Seal of the Firm