



**ICMR-NATIONAL INSTITUTE FOR RESEARCH IN REPRODUCTIVE  
AND CHILD HEALTH**

(formerly ICMR – National Institute for Research in Reproductive Health)  
Jahangir Merwanji Street, Parel, Mumbai 400012, Maharashtra  
Phone 022-24192134; 24192019; Fax 022-24139412

Tender No. NIRRH/ST/23/2021-2022

Date: February 7, 2022

**Subject: Tender for Server for Internet Applications**  
**Due Date: 28<sup>th</sup> February 2022.**

Sir / Madam,

The Institute is interested in availing the services for **Server for Internet Applications** as per the specifications mentioned. Firms / Companies which can offer the server as per the specifications can send their bids / offers to this office on or before the due date in sealed cover addressed to **The Director, ICMR – NIRRCH.**

While submitting your tender, the terms and conditions specified overleaf viz. 1 to 20 may please be carefully observed. Tenders are liable to be ignored if any of these conditions are not complied with.

**Sd/-**  
**DIRECTOR**



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**TECHNICAL SPECIFICATIONS**

**Server**

Quantity: 1 nodes

| Sr. no | Detailed specifications   | Compliance (Yes/No) | Deviation if any |
|--------|---|---------------------|------------------|
|        | <b>Rack / Tower server</b>  |                     |                  |
| 1      | <b>Chassis:</b> 2 Socket server   |                     |                  |
| 2      | <b>Processor:</b> 1 x Intel® Xeon® E-2388G 3.2GHz, 16M Cache, 8C/16T, Turbo (95W), 3200 MT/s or better  |                     |                  |
| 3      | <b>RAM:</b> 12 or more DIMM slots. <b>256 GB DIMMS</b> installed using 32GB UDIMM, 3200MT/s, ECC scalable up to 1000GB using Registered DIMM (RDIMM) operating at 2600 MHz (each CPU 64 GB or above)  |                     |                  |
| 4      | <b>HDD Support:</b> Up to 8 x 3.5” NLSAS/SAS/SSD/NVMe, 50TB OR more   |                     |                  |
| 5      | <b>HDD controller:</b> PCI/PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/10, Advanced Data Mirroring/10, Advanced Data Mirroring with 2GB battery backed write cache (on-board or on a PCI Express slot)  |                     |                  |
| 6      | <b>HDD installed:</b> 5 x 8000GB SAS3 (12Gb/s) 7200rpm 256MB cache hot swap (usable 26 GB or above on RAID 5)   |                     |                  |
| 7      | <b>PCI support:</b> minimum 5 PCIe and 2 PCIe 3.0 ports or more   |                     |                  |
| 8      | <b>LAN card:</b> 10/100/1000Gbps 2-port network adaptors  |                     |                  |
| 9      | <b>Power Supply:</b> Should support hot plug redundant power supplies with minimum 80% efficiency   |                     |                  |
| 10     | <b>USB ports:</b> Minimum 2 USB3.0 and 2 USB2.0 support   |                     |                  |
| 11     | <b>Cooling system:</b> Proper cooling arrangement for continuous work   |                     |                  |
| 12     | <b>System tuning for performance</b><br>1. System should support feature for improved workload throughput for applications sensitive to frequency fluctuations. This feature should allow processor operations in turbo mode without the frequency fluctuations associated with running in turbo mode.<br>2. System should support workload Profiles for simple performance optimization. |                     |                  |
| 12     | <b>Extra Peripheral: Internal / External USB DVD Writer 16X and 22 Inch HD LED monitor, USB Keyboard, Optical mouse</b>   |                     |                  |
| 13     | <b>Operating System:</b> Linux Enterprise commercial version with minimum 5-year support  |                     |                  |
| 14     | Warranty: 5 years on-site maintenance on hardware by OEM, software support by OEM/Supplier reinstallation and configuration.  |                     |                  |
| 15     | System Assembled in Factory and OEM Direct sales and support office in India.   |                     |                  |

|   | <b>Overall Scope of Work</b> |  | <b>Compliance (Yes/No)</b> | <b>Deviation if any</b> |
|---|------------------------------|--|----------------------------|-------------------------|
| 1 | Operating System             | Enterprise Linux Installation and configuration as web server  |                            |                         |
| 2 | Server management tool       | Server optimization tool installation  |                            |                         |
| 3 | Compiler and others          | Intel or Open GNU Compilers (C, C++ and Fortran Compilers).<br>Rocks Cluster Distribution 6.0 or higher stable version. Installation of open source compilers for Fortran 77, 90, C, C++, essential cluster computing software, cluster management software. |                            |                         |
| 4 | Other Application            | Installation of open source Molecular Dynamics packages such as webserver, LAMP, and firewall configuration  |                            |                         |
| 5 | Installation                 | Installation and Commissioning of the cluster. The vendor shall install and configure all required hardware and software suites, including but not limited to: racking & stacking.   |                            |                         |
| 6 | Testing                      | Job Scheduler installations and Cluster functionality tests needs to be performed by supplier.   |                            |                         |
| 7 | Application Installation     | Installation of the Applications provided by the user at the time of installation.   |                            |                         |
| 8 | Training                     | Training on the server usage.  |                            |                         |

| Terms & Conditions |  | Compliance |  |
|--------------------|--|------------|--|
| 1                  | Hardware OEM should have direct local sales & support office in India and have email as well as direct toll free support phone line.   |            |  |
| 2                  | OEM must provide authorization certificate to Bidder.  |            |  |
| 3                  | The bidder must submit the printed catalogues, literature of the proposed product in solution.   |            |  |
| 4                  | Point by point compliance to all the above mentioned features should be provided by the firm. There should not be any deviation and if any, should be stated clearly.  |            |  |
| 5                  | Full Server configuration as listed above should be tested and integrated at OEM manufacturing plant which includes all major components, power supply, cooling fan cabinet etc. No local site integration of server components will be allowed. Only Cluster integration and software stack installation is allowed at site.  |            |  |
| 6                  | The firm must be authorized by the manufacturer to supply, install and maintain the system. The specific authorization by the manufacturer for participating in this tender should be enclosed, otherwise quotation may be rejected.   |            |  |
| 7                  | The bidder must give the power and cooling requirements for the cluster solution along with the proposal.  |            |  |
| 8                  | The bidder must agree to install and configure the user sought Virtualization software, Windows Virtual server operating systems, mostly open source Linux versions, MPI libraries, Job schedulers plus cluster management tools and demonstrate its running in parallel as part of the system acceptance. Installation and maintenance charges, if any, should be mentioned separately. Zero or unrealistic cost quoted here will be liable to rejection. |            |  |
| 9                  | Vendor should provide the BILL of Material with manufacturer's part numbers for the items proposed to meet the complete solution. Vendor should verify and certify that the items proposed are sufficient to integrate the proposed solution into a production mode.   |            |  |
| 10                 | Special instructions for site preparation if any should be clearly mentioned in the technical bid.   |            |  |
| 11                 | The Supply, installation and commissioning of the system should be completed within 6 weeks from the date of purchase order. The project / activity must be completed on turnkey basis, integrating hardware, system software and application software by a single vendor / system integrator.   |            |  |
| 12                 | The total cost for the purposes of comparison, will be determined by considering the total cost of the entire solution i.e HPC components, all software, storage and including three-year warranty and two-year post-warranty CMC, However Vendor must provide break-up of cost for the AMC separately.  |            |  |
| 13                 | Bidder must quote item-wise and should give unit prices as well. We may increase or decrease the unit quantity based on our requirement.   |            |  |
| 14                 | All the software required for virtualization, OS must be licensed and all the license will be provided along with installation of sever  |            |  |



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Subject: **Tender for Server for Internet Applications**  
Due Date: **28<sup>th</sup> February 2022.**

**TERMS & CONDITIONS:**

1. Tenders (**Two Bids** – Technical Bid and Commercial Bid in separate envelopes to be sent together in a single big envelop) should reach **ICMR-National Institute for Research in Reproductive and Child Health, Jahangir Merwanji Street, Parel, Mumbai 400012, Maharashtra** before the prescribed date and time mentioned in the Tender.
2. The tender not submitted as per the above prescribed manner will be treated as invalid.
3. All outstation tenders should be sent to so as to reach before the prescribed time limit. Late/delayed Tenders shall not be considered under any circumstances.
4. Tender should be accompanied with Bid Security Declaration (in lieu of Earnest Money Deposit [EMD]), wherein it may be stated that ‘If they withdraw or modify their bid/s during period of validity etc. they will be suspended as per the directions of competent authority of the Institute’. The offer without Bid Security Declaration would be summarily rejected.
5. The system must come with inbuilt comprehensive warranty of Three Years, on site (Parts and Labour) at no extra cost.
6. The last date for receipt of tenders in NIRRH is 28<sup>th</sup> February, 2022 up to 17.00 hrs. The offers received would be tentatively verified on 01<sup>st</sup> March 2022 at 11.00 hrs.
7. The successful tenderers will have to submit Demand Draft / Bank Guarantee in favour of Director, NIRRCH, equivalent to 3% of the order value/contract cost (towards security of performance), which will be retained till the completion of warranty period, starting from date of successful installation and testing of Equipment. The Director reserves the right to exempt from said submission in case of low value orders.
8. The maximum response time during the warranty would be 48 hrs. 0.1% of Basic Cost as penalty per week till the warranty would be applicable.
9. The Director, NIRRCH, reserves the right to call for break-up of the quotation if it is found necessary. Incomplete specifications offered by the tenderer(s) will not be considered and are liable to be rejected.
10. The offers should be kept valid for acceptance for a period up to 28<sup>th</sup> March 2022.
11. The supply should be completed in 4 weeks from the date of receiving the confirmed order, unless specified otherwise. The supply, installation, testing and commissioning period should be clearly mentioned.

12. The payment will be arranged as per extant Government Rules and Regulations.
13. The prices quoted shall be firm for the duration of contract period. The tendered price should be quoted as the basic cost, without taxes and duties which may be indicated separately.
14. The Institute is registered with Department of Science and Industrial Research, Government of India for the purposes of availing customs duty exemptions in terms of relevant Notifications of Government of India viz. Nos.51/96-Customs; 28/2003 Customs; 43/2017 Customs; No.47/2017 Integrated Tax (Rate); 10/2018 Integrated Tax (Rate); 45/2017 Central Tax (Rate); 45/2017 Union Territory Tax (Rate); 9/2018 Central Tax (Rate); 9/2017 Union Territory Tax (Rate), as amended from time to time for Research Purposes only. In view of said registration, NIRRH is entitled for billing with **GST @ 5%**.
15. Conditional offers will not be accepted and liable to be rejected without any further reference.
16. In case of product offered is a Proprietary Product, Proprietary Article Certificate (as per Annexure 'PAC', as attached hereunder) may be provided by the OEM/Authorised Dealer / Stockiest of OEM) along with the offer.
17. Wherever tendered offer for an item is other than from manufacturer, such quotation must be accompanied by letter of commitment from the manufacturers and Memorandum of Understanding (MoU) executed duly between them on stamp paper that they would be supplying goods to the concerned trader/supplier in case supplier secured the order.
18. The bidders must provide complete circuit diagrams, wiring diagrams, component layout diagrams, Service/Maintenance manuals and component identification catalogue along with equipment free of charge in case order is placed to them.
19. The Director, ICMR-National Institute for Research in Reproductive and Child Health (NIRRH), Mumbai reserves the rights to accept or reject any lowest tender in full or in part of any tender or all tenders without assigning any reasons and cancel the tender at any stage of the tender process.
20. Any of the disputes if arise between the Supplier/Tenderer and the NIRRH/ICMR shall be resolved by the sole arbitrator which will be appointed by mutual consent of both the parties thereof failing which one of the Director of other Institute of ICMR in Mumbai (NIIH or NIV) shall be appointed within 30 days from the date of cause of action of dispute and the award as may be given by the sole arbitrator shall be binding on both the parties within the Civil Jurisdiction of Hon'ble High Court of Bombay.