

INSTITUTE OF MICROBIAL TECHNOLOGY (IMTECH)
(Council of Scientific & Industrial Research)
Sector 39-A, Chandigarh – 160036 (India)

Phone: 0091-172-2690056/2636680-85. Ext. 363 Fax: 2690585/2636683

E.mail: purchase@imtech.res.in

EXPRESSION OF INTEREST
(Advt. No. Pur-72/2015-16)

The Director CSIR-IMTECH intend to procure High Performance Computing (HPC) cluster. Interested participants/reputed Indian/foreign manufacturers and authorized dealers may attend pre-indent conference **at Conference Room of Protein Centre, IMTECH on 04.09.2015 at 2.00 P.M.** along with latest Technical proposals, Presentation and Demonstration. For details of requirement/instructions visit website: "<http://www.imtech.res.in>."

After finalizing **the specifications, limited tender will be invited only from the qualified bidders**, who made both technical presentation and submitted proposals on the stipulated date and time above.

Contd.

EXPRESSION OF INTEREST (EoI) FOR TURNKEY HIGH PERFORMANCE COMPUTING CLUSTER

PREAMBLE AND INTRODUCTION

Bioinformatics Centre at CSIR-Institute of Microbial Technology (IMTECH) is a high performance computing facility set up to cater to the computing requirements of the faculty and students. The centre is supported by un-interrupted power supply to ensure non-stop computing facility to the user community.

Through this Expression of Interest (EoI), CSIR-IMTECH is inviting technical proposal from potential suppliers/authorized channel partner or agents and system integrators (henceforth will be referred to as vendors) for High Performance Computing (HPC) cluster to address the current and immediate future requirements. The vendors who have experience in providing solutions in the HPC area with special reference to bioinformatics, molecular simulations, genomics applications are welcome to participate in this initiative.

SCOPE OF WORK

Technical requirements that are to be considered for architecting are given below.

1. The proposed HPC solution should be capable of having at least 200 cores (400 threads) based on x86 family of processors with 64-bit Linux as operating system.
2. The proposed architecture must be able to support heterogeneous CPU/GPU architecture. A couple of additional nodes with two NVIDIA GPGPUs each are also to be included in this solution.
3. The proposed HPC solution shall be able to deliver scalable performance across a wide cross section of applications (BLAST, AMBER, GROMACS, NAMD, CLCBio, MIRA etc.) in the areas of bioinformatics, genomics and molecular simulations.
4. Complete technical details on hardware infrastructure (such as rack, nodes -master(s) and compute(s), switches including infiniband, power, cooling, space and other installation requirements etc.), software (for running of system, job scheduler, monitoring system health, compilers, openmpi/mpich, infiniband OpenFabrics OFED software stack etc.). The licensing policies (if not open source) must be mentioned. The solution must provide at least 30TB or more usable storage after RAID configuration.

5. The proposed equipment must conform to safety, environmental and regulatory European and American standards. All relevant documents must be supplied to support this.

INSTRUCTIONS TO VENDORS FOR SUBMISSION OF EOI

- The vendor must submit (i) an authorization from a signing authority of OEM for participating in this activity, supply and maintenance of equipment/goods, (ii) a certificate that equipment/goods offered are not end of line or service, with full support of warranty of goods for three to five years. This authorization must also mention the tender number/reference.
- The vendor, in the last two years, should have supplied and installed at least one HPC solution with same or more number of cores. Documentary evidence to this effect has to be enclosed along with the proposal giving details of the technical solution and contact details of the purchaser.
- It must be clearly stated who shall be responsible for system integration, support and maintenance of HPC solution. Those responsible for support and maintenance of HPC solution should have a technical team of experts in place with an experience of last five years in this area of high performance computing. Documentary proof is required in this regard.
- The vendor should have the main/branch office in India to ensure next business day after sales service support.
- Proposal HPC solution has to be complete in all respects, self contained and address all the requirements comprehensively, as stated. Vendors are required 1. to make presentation of HPC solution taking into consideration the scope of work as mentioned above, at CSIR-IMTECH on the 4th Sept., 2015 (2:00pm) in pre-indent interactions 2. submit a soft copy of this presentation along with proposal and supporting technical sheets. Hard copies of documentary evidence/proofs as stated above must be submitted.
- Final Request for Proposal (RFP) will be issued only to those vendors who are short-listed in this process. The short-listing will be done by a technical Committee based on the evaluation of technical aspects of proposal, completeness of proposal, submission of all documents that have been asked for, credentials, technical capabilities and track record of vendors attending pre-indent conference.
- All purchase rules of CSIR are applicable for this Eoi.