

**BOSE INSTITUTE
KOLKATA**

Tender No.	:	BI-BIC-Cluster-01-2015-16
Tender Date	:	20-05-2015
Type of Tender	:	Limited tender
Tender Title	:	Cluster configuration of a 8+1 node HPC setup
Specification	:	As per Annexure - I
Quantity	:	As per Annexure - I
Last date & time for submission	:	05-06-2015 up to 14:00 hours
Date & time for opening of bids	:	05-06-2015 at 15:00 hours
Submission of Tender (Address)	:	Office of the Bioinformatics Centre, Centenary Campus, Bose Institute , P-1/12, CIT scheme VIIM, Kolkata – 700 054
Venue of bid opening	:	As stated above
For any query the interested bidders may contact (Dept. /Section /Div. /Unit)	:	033-2569 3332

General Terms & Conditions

Warranty	:	On site troubleshooting over phone/email/video conferencing or tools like team-viewer for one year should be included in the offer. For the issues which cannot resolved by these modes should be attended on-site within 72 hours or within a mutually negotiable time. Should include any partial or full reinstallation in unavoidable situation.
Payments terms	:	The payment will be released only after installation is successful and the setup is observed to be stable, confirming the above requirements.
Delivery schedule	:	After receipt of the work order the materials should be delivered within one month & if any defect of the supplied items is found, it should be replaced immediately form your side.
Bid security (earnest money deposit), if applicable	:	N.A.
Submission of performance Bank Guarantee (PBG), if applicable	:	N.A.
Any other information (if applicable)	:	N.A.

Name of the instrument and submission of tender should be mentioned on the envelope positively.

Director, Bose Institute reserves the right to accept or reject any or all tenders either in part or in full. The reasons behind rejection of the tender of a prospective bidder will be disclose only when enquire are made.

Sr. Prof. and In-Charge Registrar's Office
Bose Institute

ANNEXURE – I

Specification

The description of the existing machines:

- Servers: HP ProLiant DL385 G7 (total 8+1 node)
- Processor: AMD Opteron (tm) Processor 6282 SE (two processors per node)
- RAM: 64 GB on each node
- HDD: ~300GB usable on each computing node; ~15 TB on master node
- Network: Gigabit switch and infiniband
- The entire setup is already rack mounted, fitted with power and network cables, as it was already in a running condition.
- Warranty: The machine (hardware) is covered under warranty for next one and half years(approximately).

Requirements:

1. OS installation on one master and 8 computing nodes after complete formatting. Freeware OS, e.g. CentOS, must be used. Cluster architecture is to be configured so that the jobs would be possible to fire from the master node using a queue system and then it shall find the compute node to run the job automatically. All necessary compilers, MPI programs, queuing programs and any such miscellaneous items are to be provided; freely available versions are acceptable, as long as they are use friendly. The Ethernet and infiniband both must be working. Miscellaneous other micro-details of the setup would be mutually decided at the time of installation from the discussion between the vendor and the user.
2. The cluster architectures is preferred to be as simple as possible (without compromising performance) so that its robustness is ensured and day to day management and troubleshooting remains simple. A briefly written guideline on the day to day management of the cluster and to run jobs smoothly must be provided.
3. The setup must ensure the following programs runs properly: Molecular dynamics simulations using CHARMM, NAMD, GROMACS, AMBER etc.
4. The standard benchmark speed of these programs must be satisfactorily demonstrated as a proof of successful installation of the clustering.
5. On site troubleshooting over phone/email/video conferencing or tools like team-viewer for one year should be included in the offer. For the issues which cannot resolved by these modes should be attended on-site within 72 hours or within a mutually negotiable time. Should include any partial or full reinstallation in unavoidable situation.

Other conditions:

1. The experience of at least three such cluster installation (of comparable setup) in eastern India must be furnished by:
 - (a) The vendor/bidder (i.e. installation experience of the organization)
 - (b) The exact person who is going to lead the clustering/installation on-site in his entire work experience in different organization (i.e. installation experience of the engineer)
2. The payment will be released only after installation is successful and the setup is observed to be stable, confirming the above requirements
3. The vendor/bidder should have a registered office in Kolkata or the support team should have a base in Kolkata