



INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH

PUNE

CLARIFICATION ON TENDER NUMBER - IISER-PUR-0346-17

ITEM DESCRIPTION- PROCUREMENT OF HPC CLUSTER

Refer our Press Tender Notice No.IISER/S&P/12/17 for procurement of HPC Cluster.
Tender Reference Number - IISER-PUR-0346-17.

Pre-Bid meeting was held on 20th June, 2017 at 2.30 PM and minutes of meeting is as under.

At the outset, the Chairman welcomed all the Members and the representative of the Prospective Bidders and briefed in general the scope of the Project and thereafter requested Assistant Registrar (S&P) to brief the vendors on the salient features of the commercial terms and the indenting Officer to read out the clarification sought by the Prospective Bidders and replied thereto as detailed in Annexure -II

The representatives present were satisfied with the replies given and it was informed that the corrections / additions / clarifications given, as discussed during the Pre-Bid Conference would be hosted on the website of IISER Pune and all the Prospective Bidders are required to take cognizance of the proceedings of the Pre-Bid Conference before submitting their bids as stipulated in the Bidding Documents.

The last date for submission of tender is 19/7/2017 and technical bids will be opened on 21/07/2017 - Time 3.30 PM.

The other terms & conditions of the notice issued on our IISER website www.iiserpune.ac.in will remain unchanged. No more correspondence in this regard will be entertained

The meeting ended with vote of thanks to the Chair

20.6.2017

Sd/-
Assistant Registrar (S&P)



IISER PUNE

PRE-BID CONFERENCE FOR PROCUREMENT OF HPC SERVER

TECHNICAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISER-PUR-0346-17

DATE : 20.6.17

Sr.No	Query/Clarification Sought	Clarification / Amendment
01	Master Node: Quantity 1 (CHAPTER 4, Page No. 19. Detailed Specifications for the HPC cluster) Internal Storage: Minimum 1 x 1TB, 10k rpm, Enterprise SATA, Hot Plug HDD's (RAID 1) , Please change to : Internal Storage : Minimum 2 x 1TB, 7200 rpm, Enterprise SATA, Hot Plug HDD's (RAID 1)	Internal Storage: Minimum 2 x 1TB Enterprise SATA, Hot Plug HDD's 7200 rpm (RAID 1) ,
02	Master Node: RAID Card: Appropriate RAID Controller with at least 2GB Cache supporting RAID 0, 1, 5 & 6. Is the controller required with Battery Backup / Flash Backup for cache?	Point no. 8 of master node: RAID card: stands removed (Not Required)
03	Master Node: Peripherals: Rack mountable TFT with keyboard, mouse and KVM, Kindly specify number of ports on KVM. Also please mention if KVM required is Analogue or Digital	Bidder to provide KVM switch with required number of ports and are free to offer any type of KVM switch
04	Compute Node(s): Quantity 22, HDDs: 1 x 1TB, 10k rpm, Enterprise SATA SSD with minimum 1.0Dwps, Kindly clarify if the required type of	Compute Node(s): HDD: 1 x 1TB Enterprise SATA, 7200 rpm.

	disk – hard disk or SSD. If SSD, please allow 960GB disks also.	
05	Compute Node(s): Chassis, Power supply: Dense form factor nodes occupying on an average of 0.5U per node to be proposed. If there are any blank slots in the chassis, this will not be considered as part of the 0.5U calculation. Similarly, if there are any External Power shelves in the solution powering the compute nodes, the space used by these Power Shelves shall not be used for the 0.5U calculation. Dense form factor nodes occupying on an average of 0.5U per node to be proposed ,Please also allow 1U rack mount form factor	No change in tender specifications
06	PFS based storage solution (CHAPTER 4, Page No. 20 Detailed Specifications for the HPC cluster): Spares: One hard disk to be kept as cold spare onsite for both Metadata and OSS. Kindly amend to Spares One hard disk to be provided as global hot spare onsite for both Metadata and OSS	No change in tender specifications
07	PFS based storage solution: Node requirement for MDS/OSS: The appliance should be configured with 2 nodes. Node 1 to be configured for MDS and Node 2 for OSS. In case of any node failure, the services should start from the other surviving node, without any manual intervention. Please elaborate the term "Appliance"	It means Storage solution
08	PFS based storage solution: Usable capacity for OSS: Min. 150 TB usable RAID6 (Can be either Hardware or Software RAID). Preferred disk layout – 8D+2P or 9D + 2P. NL SAS disks (12Gbps) can be used. Kindly amend to: Min. 150 TB usable RAID6 (Can be Hardware RAID). Preferred disk layout – 8D+2P or 9D + 2P. NL SAS disks (12Gbps) can	No change in tender specifications

	<p>be used. Software RAID is susceptible to loss of data in case of software failure with every probability of loss of data.</p>	
09	<p>Miscellaneous: Acceptance criteria: After installation is complete, the bidder will carry out acceptance tests. This consists of a 72-hour burn test and running each of the benchmarks (using the same software suite they have used while running the benchmarks for the technical bid) at IISER Pune to demonstrate the performance as claimed in the technical bid. Please clarify this point.</p>	<p>Bidder has to perform the HPL benchmark as well as CESM benchmark and demonstrate it at IISER Pune during the acceptance of the system.</p>
10	<p>Page 19 – Compute Node: HDDs: 1 x 1TB, 10k rpm, Enterprise SATA SSD with minimum 1.0 dwpd. Kindly clarify if SSDs are required since 1 TB SSDs are quite expensive</p>	<p>Compute Node(s): HDD: 1 x 1TB Enterprise SATA, 7200 rpm</p>
11	<p>Page 20 – PFS Storage: Performance: Min. 5GB/s write and read using IOR or Iozone, Kindly change it to 4GB/s for proposing an appropriate solution for the capacity asked. Also kindly modify it to Write or Read.</p>	<p>No change in tender specifications</p>
12	<p>Details regarding the benchmarks: Benchmarking should be purely on CPU cores and should be done on the same configurations and specs as asked in this tender with 4 nodes. Has it to be run on 1, 2, 3, or 4 nodes configurations?</p>	<p>Benchmarking has to be done on 4 nodes only.</p>
13	<p>Warranty / Support: The BIDDER shall assure the supply of spare parts after warranty is over for maintenance of the equipment supplied if and when required for a period of 10 years from the date of supply of equipment on payment on approved price list basis. 10 years to be reduced.</p>	<p>The bidder shall assure the supply of spare parts after warranty is over for maintenance of the equipment supplied, for a period of 7 years on payment of approved prices.</p>