

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH PUNE

CLARIFICATION ON TENDER NUMBER - IISER-PUR-1311-16

ITEM DESCRIPTION- PROCUREMENT OF HPC CLUSTER

Refer our Press Tender Notice No.IISER/S&P/18/16 dated 26.12.2016 for procurement of HPC Cluster . Tender Reference Number - IISER-PUR-1311-16.

Pre-Bid meeting was held on December 03rd, 2017 at 3.30 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 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

Sd/-Assistant Registrar (S&P)

DATE: 3.1.17



IISER PUNE

PRE-BID CONFERENCE FOR PROCUREMENT OF HPC CLUSTER

TECHNICAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISER-PUR-1311-16

SI#	RFP Clause	Clarifications / Changes required	Our Reply
1	Master node - Sr. No.5 Pg 21/43 VGA - ASPEED AST2400 BMC Onboard	Request you to remove and replace with "Integrated Standard Onboard Video Graphics"	VGA - ASPEED AST2400 BMC Onboard or equivalent
ı	Compute node - Sr. No.2 Pg 21/43	video diapines	VOA ASI EED ASTZ-100 BING OHBOARA OF EQUIVALENCE
2	Memory - 4 x 32GB (Total 128GB)	Request to change to 8 x 16GB for better CPU-memory Bandwidth	Changed to: Memory - 8 x16 GB (Total 128GB) in compliance with tender specification
	-		VGA - ASPEED AST2400 BMC Onboard or equivalent
3	Compute node - Sr. No.6 Pg 22/43 Graphics - ASPEED AST2400 BMC Onboard	Request you to remove and replace with "Integrated Standard Onboard Video Graphics"	

	Compute node-Sr. No. 10 Pg 22/43		
4	Chassis / Power supply - 2U rackmountable with mounting Rails (4 hot-pluggable server nodes in Single 2U enclosure) 1600W Redundant Power Supplies Titanium Level. Each node should be individually serviceable and the enclosure/rack should have at least N+1 redundant Power supply (platinum rated) and redundant fans	Request to reduce to 1400W Power Supplies. Redundant Power supplies to be removed, since 4 nos of compute nodes will exceed the Power capacity of a single power supply.	No Change
	Sr. No.7 Pg 24/43	<u> </u>	
5	Other conditions - No on-site assembling / integration is allowed after delivery of the hardware, the entire solution must tested and factory integrated. Sr. No.7 Pg 24/43	Request to remove Factory Integration	Factory integrated implies that all parts of the node/equipment is OEM certified and integrated in the OEM factory.
6	Other conditions		No change
	Other Conditions	Request to add Intel MPI and Cluster studio X (in the final bid) - Intel MPI and Lib have shown better performance with GROMACS over open	
a		MPI and Lib. Request to add commercial supported Job scheduler and Cluster Manger - Cluster manager are tightly integrated with server embedded management which helps client to remotely manage and deploy each single node. With open source Cluster Manger such	No change
b	D 04/42	integration is not possible.	No change
	Pg 26/43	Would appreciate if Benchmarks are committed along with an undertaking	
7	Details regarding the Benchmarks	by the vendors instead of a submission	No change

		against the RFP and demonstrate during Acceptance criteria. Necessary Undertaking can be provided.	
8	Page 26/Chapter 4	Whether number of nodes can be reduced below 5.	benchmark to be done on maximum 4 nodes. No extrapolation is required.
0	rage 20/Chapter 4	Request to reduce the duration of	extrapolation is required.
9	Page 17, Chapter 3	maintenance of spare part from 10 years to 5-6 years We reduce the duration of maintenance of spare part from 10 years to 6 years	
,	rage 17, emaple: 0	Request to increase delivery and	is years to a years
10	Chantan 2	installation time from 4 weeks to 6 to	
10	Chapter 2 Page 22,point 10	8 weeks	delivery time changed to a maximum of 6 weeks.
	Chassis, Power supply: 2U rack mountable with mounting Rails (4 hot-		
	pluggable server nodes in Single 2U		
	enclosure) 1600W Redundant Power		
	Supplies Titanium Level. Each node	Can was mucha (II Chancia to	
	should be individually serviceable and the enclosure/rack should have at least	Can we quote 6U Chassis to accommodate 8 compute nodes where	
	N+1 redundant Power supply (platinum	IISER will get density of 2 servers per	
	rated) and redundant fans. If discrete	1U space and total of 6 nos of	
	rack mount servers are offered, it	1300Watts Titanium class Power supply	
11	should be configured with redundant power supplies and fans.	in N+1 Redundancy against the ask of 1600Watts Power Supply Yes, as per stipulated tender specification	
	Page No 21 & 22, Point number 5 & 6	,	,
	Respectively		
12	ASPEED AST2400 BMC Onboard	Can we quote equivalent graphics card	VGA - ASPEED AST2400 BMC Onboard or equivalent
	Page 26		
	Benchmarking should be purely on CPU		
	cores and should be done on the same	Are we allowed to use 4 nodes for	
	configurations and specs as asked in this	benchmark and extrapolate for 5 nodes	benchmark to be done on maximum 4 nodes. No
13	tender and with a minimum of 5 nodes.	result ?	extrapolation is required.
	Page 26	As per the "INSTRUCTION" file, we are	Produce the result for 28 core, 56 core, 84 core and 112
14		asked to produce the result for 16	core.

	All cores present in each node must be	core, 32 core, 64 core and 128 core.	
	used in running the benchmarked jobs.	However the proposing node will have	
		28 cores per node. How do we comply	
	to this requirement.		
	Page 26		
		Are we allowed to use FFTW3 from	
	Use openmpi to have the mpi	Intel's optimized MKL library (or we	
	enviornment and gcc for compilation of	are supposed to use the open source	Use of commercial version of MKL should not be used.
15	gromacs.	version of the FFTW3 library)?	Please use open source version of FFTW3
	Page 26		
	GROMACS version should be 4.5.5.		
	GROMACS should be installed and used		
	in double precision using open source	Are we allowed to use the latest	
16	compilers (gcc/openmpi)	version of Gromacs ?	No Change
	Page 21		
	Minimum 64TB SATA Enterprise with	the allow 2 dialog C allow 2 E"	
17	minimum 7200RPM (minimum RAW	request to allow 2 disks & allow 2.5" disks	2.5' disks are allowed
17	space 64TB) Page 21	disks	2.5 disks are allowed
	rage 21		
	1x PCI-E 3.0 x16, 2x PCI-E 3.0 x8 (Low-	Make it 6. 3 PCIe slots for 2U server is	Minimum 1x PCI-E 3.0 x16, 2x PCI-E 3.0 x8 (Low-profile
18	profile slots)	very specific.	slots)
	Page 21		
	Appropriate RAID Controller with at		
	least 2GB cache supporting RAID 0, 1, 5		
19	& 6	What about battery back up?	No change
	Page 21		
	4 x 32GB (Total 128GB) DDR4-2400 ECC	Suggesting 16GB x 8 and scalable to 16	Technical specifications modified to Memory - 8 x16 GB
20	REG.(Max 512GB, 08 DIMMs)	dimms - that's industry standard	(Total 128GB) DDR4-2400 ECC REG.(Max 512GB, 08 DIMMs)
	Page 21		
	100000 C1T4 F 1 2200 PD44		
	1 x 1000GB SATA Enterprise 7200 RPM	Demonstra allanca diale G. allanca E"	
21	3.5" HDDs (3 x 3.5" Hot-swap SAS2/SATA3 HDD Bays)	Request to allow 2 disks & allow 2.5" disks	2.5' disks are allowed
<u> </u>	SASZ/SATAS TIVU Days)	disks	2.3 disks are allowed

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	the entire solution must tested and factory integrated. Only rack-mounting, installation of OS and applications can be done		
	Page 24 & 25		
28	The bidder should also give power, UPS and cooling requirements for the cluster solution along with the proposal. The power and cooling requirements should be calculated at peak usage assuming that all cores in every node are being used. Please provide separate power requirement for cluster and storage.	Request to Remove the word storage as there is no storage in this requirement. It seems to be typo error	The bidder should also give power, UPS and cooling requirements for the cluster solution along with the proposal. The power and cooling requirements should be calculated at peak usage assuming that all cores in every node are being used.
	Page 26		
29	Benchmarking should be purely on CPU cores and should be done on the same configurations and specs as asked in this tender and with a minimum of 5 nodes	Please allow processor with higher core count and speed for running benchmark with due interpolaction	No change. "Minimum of 5 nodes should be changed to maximum 4 nodes"



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COMMERCIAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISER-PUR-1311-16 DATE : 3.1.17

S.No	Query/Clarification Sought	Clarification / Amendment
	NIL	NIL