



भारतीय प्रौद्योगिकी संस्थान इंदौर
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IIT Indore

NIT No.: IITI(MM)/BSBE(PRJ)/01/1A/06/PK/2018-2019

June 13, 2018

Pre-bid queries and Responses for "Master Node and Compute Node"

The meeting for Pre-bid discussion and presentation was held at IIT-Indore on **June 12, 2018 at 2.00p.m.** The report of the meeting is as below. All prospective/willing bidders are requested to **take note of this report as part of the Tender document.**

Item : Master Node and compute node		
A.	Queries received from : Locuz Enterprise Solutions Ltd.	
	Queries	Response / Remarks from IITI
1	Page no 15, Technical Specifications for Master nodes Processor 2 X intel Xeon E5-2620 V4 Since You have asked for Intel V4 which is broadwell processor and dis-continued by Intel and also not available with all the leading Server OEM's We request IIT Indore to please ask bidders to quote Intel Skylake Processor with same specification (2 x 8 Core Processor, 2.1 Ghz)which is latest lanch my Intel and Available in market	Intel Skylake processor with same configuration (2x8 core processor, 2.1 GHz) optional but quote compulsorily.
2	Page no 15, Technical Specifications for Master nodes RAM (total 48 GB) As Intel has developed special Architecture for DIMM's with Scalable CPU Architecture. It is recommended to ask total Memory size of 96GB in balanced memory architecure with DDR4-2400 memory speed. This is recommend by Intel for Skylake processors. 48 GB RAM will not give performance with Skylake Processors.	No change
3	Page no 15, RAID (graphics: ASPEED AST2400 BMC onboard) Request IIT Indore to please change it as ASPEED AST2400 BMC onboard OR equivalent. As ASPEED AST2400 BMC onboard is very specific to partcular Server OEM	ASPEED AST2400 BMC onboard OR equivalent

एस.पी.होता/S. P. HOTA
उप कुलसचिव/Deputy Registrar
आई.आई.टी., इन्दौर/IIT Indore
13/05/18

4	Page no 15, HDD's:- 32TB SATA Ent. 7200 RPM 3.5" (configure in RAID 5) Request IIT Indore to please suggest whether 32 TB is usable space required? Also please suggest how much capacity required for OS and scratch from 32TB	40 TB raw disk space configured in RAID 5
5	Page no 15, Technical Specifications for Compute nodes Processor 2 X intel Xeon E5-2620 V4 Since You have asked for Intel V4 which is broadwell processor and dis-continued by Intel and also not available with all the leading Server OEM's We request IIT Indore to please ask bidders to quote Intel Skylake Processor with same specification (2 x 8 Core Processor, 2.1 Ghz)which is latest launch by Intel and Available in market	Quoting Intel skylake processor optional but quote compulsorily
6	Page no 15, Technical Specifications for Compute nodes RAM (total 48 GB) As Intel has developed special Architecture for DIMM's with Scalable CPU Architecture. It is recommended to ask total Memory size of 96GB in balanced memory architecture with DDR4-2400 memory speed. This is recommended by Intel for Skylake processors. 48 GB RAM will not give performance with Skylake Processors	No change
7	Page no 15, Technical Specifications for Compute nodes HDD's: 1 X 1000GB 7200 RPM SATA Enterprise LFF (configured in RAID 5) Since only 1 disk of 1000Gb has asked there is no need of RAID as it will not be possible to configure RAID with 1 disk. Here we recommend IIT Indore to ask for 2 X 1000GB 7200 RPM SATA Drivers in RAID1. This will be beneficial of IIT Indore for the recovery of data in case of disk failure.	2x1000GB 7200 RPM SATA drivers configured in RAID 1
8	Page no 16, Chassis specification in Compute node tower convertible to 4U rack mountable We recommend IIT Indore to ask for 2U rackmountable form factor, 2U form Factor will be able to accommodate GPU card in it. No required 4U convertible chassis in HPC that too for 6 Nodes	2U : optional but quote compulsorily

Queries received from : Veltronics India Pvt. Ltd. Indore

1	Master Node : Processor : 2 x intel Xeno E5- 2620V4 (Eight-Core 2.1 GHz ,20M,8.0GT/s),	No change in configuration. Quoting Intel skylake processor optional but quote compulsorily
2	HDDs 32 TB SATA Ent 7200 RPM 3.5"(configured in RAID 5)	40 TB raw space configured in RAID 5

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3	RAID : Hardware RAID 3108 Supporting RAID Level 0,1,5,6,10,50,60	Or better
4.	Infiniband : 1 x Single -Port B 56Gbps FDR adapater + cable of suitable length	No change
5	Compute Node Processor : 2 x Intel Xeon E5- 2620V4 (Eight-Core 2.1 GHz ,20M,8.0GT/s),	Skylake processor optional but quote compulsorily
6	HDDs :1 x 1000 GB 7200 RPM SATA Enterprise LFF (configured in RAID 5)	2x1000GB configured in RAID 1
	RAID : SATA A3(6Gbps),RAID 0,1,10 Onbord	Or better
	Infiniband : 1 x Single -Port B 56Gbps FDR adapater + cable of suitable length	No change
Bidder has to install open source job scheduler and cluster manager.		


 13/6/18
Dy. Registrar (MM)

All prospective/willing bidders are requested to take note of this report as part of the Tender document. All other parts of the tender including the terms and conditions of the tender will remain Unchanged.

एच पी होटा / S. P. HOTA
 उप-निर्देशक / Deputy Registrar
 आई.आई.टी., इन्दौर/IIT Indore

-----END OF THE REPORT-----

