TENDER FOR SUPPLY AND INSTALLATION OF NETWORK ATTACHED STORAGE
PREBID CLARIFICATIONS - PREBID MEETING HELD ON 20.02.2018

Attended by:	ICTS Representatives:
M/s. STI Infotech Pvt. Ltd.	Mr. Srinivas R
M/s. Cerebra Integrated Technologies Ltd.	Ms. Rajalakshmi
M/s. Netweb Technologies India Pvt. Ltd.	
M/s. Fujitsu India Pvt. Ltd.	
M/s. Frontier Business Systems	
M/s. Micropoint Computers Pvt. Ltd.	
M/s. Twilight Systems	

Current Technical Specifications in Tender	Vendor Remarks/Queries	ICTS Response
Storage Server		
" Minimum 576GB ECC DDR4-2666 Mhz (in balanced configuration for optimizing the memory bandwidth)".	Desired processor (Xeon SP Silver 4114) supports a maximum memory speed of DDR4-2400. Though the system can be populated with DDR4-2666 memory, the memory will work only at DDR4-2400 and not at DDR4-2666. The desired processor has six channel memory. For a dual-processor configuration, the configuration for optimizing memory bandwidth will be to use either 12 or 24 memory modules. Therefore the supported memory configurations (with optimized memory bandwidth) are 384GB and 768GB. We request you to kindly changed the desired memory to either of these to remove ambiguity.	Clarified in Addendum
Storage of 600 TB capacity usable after RAID 5 with minimum 2 hot spare disk or RAID 6 with minimum 1 hot spare	Clarify if the desired storage capacity is 600TB or 600TiB. As per industry practice, 600TB = 600,000,000,000,000 bytes and 600TiB = 659,706,976,665,600 bytes (1TB = 1000 x 1000 x 1000 x 1000 bytes whereas 1TiB = 1024 x 1024 x 1024 x 1024 bytes) Usable storage capacity depends on the number of disks per RAID group. Since the size of RAID group is not specified, different permutations and combinations lead to different number of disks. From the specifications it seems that you plan to go with a single large RAID group but we wanted to confirm the same	Consider 1 RAID group
For "2x Intel P3700 800GB, NVMe PCIe 3.0 x4 MLC AIC or equivalent".	We want to bring to your notice that Intel P3700 SSD has an endurance of 17DPWD. This SSD is now EOL and there is no newer model available with similar endurance. As desired product is EOL and no similar new product has replaced it, we request you to kindly change the specifications.	Clarified in Addendum
Archival Storage		
"Storage of 650 TB capacity usable after RAID 5 with minimum 2 hot spare disk or RAID 6 with minimum 1 hot spare"	Kindly help to clarify if the desired storage capacity is 650TB or 650TiB. (1TB = 1000 x 1000 x 1000 x 1000 bytes whereas 1TiB = 1024 x 1024 x 1024 x 1024 bytes) Usable storage capacity depends on the number of disks per RAID group. Since the size of RAID group is not specified, different permutations and combinations lead to different number of disks. From the specifications it seems that you plan to go with a single large RAID group but we wanted to confirm the same	Consider 1 RAID group
For "Minimum 384GB ECC DDR4-2666 Mhz (in balanced configuration for optimizing the memory bandwidth)".	Desired processor (Xeon SP Silver 4114) supports a maximum memory speed of DDR4-2400. Though the system can be populated with DDR4-2666 memory, the memory will work only at DDR4-2400 and not at DDR4-2666.	Clarified in Addendum
1) Page 6, II. Pre-qualification criteria, point 9: The bidder should submit the BIS certificate for the quoted hardware.	As mentioned above, we have supplied similar products to a lot of customers in India and shall provide a list of all customers for your reference too. We undertake to clear the consignment from customs and supply the same to ICTS like we have done for other customers. Also not all OEMs have/require this. Hence we request ICTS TIFR to relax this clause.	Tender clause will remain the same in this regard
EMD	2) EMD, annual turnover, previous experience, security deposit clauses: NIC/MSME registered companies are given an exemption for submission of EMD, from previous turnover and experience clauses. We request ICTS TIFR to clarify your stand on this.	Only NSIC Certificate with eligible quantitative capacity will be considered. NSIC bidders will be considered for EMD exemption only.
1) ISO Certificate: As we are offering the product of esteemed brand (one of the leading IT hardware vendor in the world) which is ISO certified company: Page number: 6 of the tender mentions OEM/Bidder need to provide ISO certificate, hence we can submit the OEM ISO certificate, but however on Page number. 22 checklist no.14 mentions as OEM and Bidder.	Request to change the same to OEM/bidder, hence we can submit OEM ISO certificate to qualify.	Clarified in Addendum
2) Schedule of Experience:	Request you to relax the same to 2 years as we are newly established, but we have more than 25 years' experience of the IT industries, and we have many order received from DRDO, Defence, BEL, HAL and other esteemed organization for similar items, attached here the recent supply for you kind consideration.	Tender clause will remain the same in this regard
Page 16 - Storage Server	In lieu of "2x Intel P3700 800GB, NVMe PCIe 3.0 x4 MLC AIC or equivalent", can we propose 2x Intel P3700 800GB, NVMe PCIe 3.0 MLC 2.5"	Clarified in Addendum

ADDENDUM NO. 1 to TENDER NOTICE No. 24/FEB/2018
FOR SUPPLY, INSTALLATION OF NETWORK ATTACHED STORAGE (NAS)

The following Addendum is issued to our **TENDER NOTICE NO. 24/FEB/2018, Ref No. ICTS/TIFR/IT/2017-18/08 for "Tender for Supply & Installation of Network Attached Storage (NAS)"** to include the following changes in the Specifications:-

As in tender:

Storage server: Minimum 576GB ECC DDR4-2666 Mhz (in balanced configuration for optimizing the memory bandwidth)

Read as:

Storage server: Minimum 576GB ECC DDR4-2400 Mhz (in near balanced configuration for optimizing the memory bandwidth)

As in tender:

Storage server: 2x Intel P3700 800GB, NVMe PCIe 3.0 x4 MLC AIC or equivalent

Read as:

Storage server: 2x Intel minimum 1 TB NVMe PCIe 3.0 based or hot swapppable drive or equivalent

As in tender:

Storage server: 2 x Single port 100 Gbps High Speed InfiniBand(EDR)/Omnipath HFI Interconnect or better

Read as:

Storage server: 2 x Single port 100 Gbps High Speed Omnipath HFI Interconnect or better (quote for 2 x Single port InfiniBand(EDR) option separately)

As in tender:

Archival Storage: Minimum 384GB ECC DDR4-2666 Mhz (in balanced configuration for optimizing the memory bandwidth)

Read as:

Archival Storage: Minimum 384GB ECC DDR4-2400 Mhz (in balanced configuration for optimizing the memory bandwidth)

As in tender:

Supply of additional Hot Swappable NL SAS or Enterprise SATA3, 7200 RPM or higher Hard drives (Hard disk: Hitachi Ultrastar, Western Digital or equivalent)

Read as:

Supply of additional 8TB Hot Swappable NL SAS or Enterprise SATA3, 7200 RPM or higher Hard drives (Hard disk: Hitachi Ultrastar, Western Digital or equivalent)

As in tender:

Spares: At least three hard disks of each type installed

Read as:

Spares: At least three NLSAS or SATA3 hard disks of each type installed

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As in tender:

Checklist of documents for tender submission
Sl. No. 14. ISO Certification of OEM & Bidder

Read as:

Checklist of documents for tender submission
Sl. No. 14. ISO Certification of OEM/Bidder

Please return the **Addendum No. 1 Dt. 28/02/2018** with your Signature, Date & Stamp along with **TECHNICAL BID.**

All other terms and conditions of the Tender Enquiry shall remain unaltered.

Thanking you,

Yours faithfully,
For and on behalf of International Centre for Theoretical Sciences,

Administrative Officer