

INDIAN INSTITUTE OF TECHNOLOGY GOA

Goa College of Engineering Campus, Farmagudi, Ponda -403401

Enquiry No. IITGOA/2020-21/009

Date: 12.10.2020

Corrigendum to the tender for Supply of Rack Server with accessories vide Enquiry No. IITGOA/2020-21/009 dated 22.09.2020.

For the tender of Supply of Rack Server with accessories at IIT Goa, the following clauses/paragraphs have been modified:

Technical specifications have been modified as follows

Sr. No.	Page No.	Reference	Component	Actual Value	Changed Value
1	<u>1</u>	<u>Point 6</u>		1. Delivery and installation should be made within 4 weeks of getting a confirmed order.	1. Delivery and installation should be made within 4 to 6 weeks of getting a confirmed order.
2	<u>3</u>	<u>Point 8. a</u>		Application server, NAS box and SAN switch installation and configuration must be done.	Application server, SAN box installation and configuration must be done.
3	<u>4</u>	<u>Point 5</u>	<u>Expansion</u>	Minimum 3x PCIe 3.0x 16 slots, 1x PCIe x8 Slots, 5 x USB 3.0 1x VGA	Minimum 3x PCIe 3.0x 16 slots, 1x PCIe x8 Slots, 3 x USB 3.0 1x VGA
4	<u>4</u>	<u>Point 6</u>	<u>Storage</u>	1.2 TB Usable space using RAID 5(p) with 10k rpm SAS drives.	1.2 TB Usable space using RAID 1 with

					10k rpm SAS drives.
5	<u>4</u>	<u>Point 13</u>	<u>Form Factor</u>	1 RU with rail kit and other accessories	1 RU or 2 RU with rail kit and other accessories
6	<u>4</u>	<u>Point 14</u>	<u>Warranty</u>	5 years comprehensive OEM onsite warranty with Next Business Day resolution	5 years comprehensive OEM onsite warranty with Next Business Day resolution with 24x7 technical support from OEM
7	<u>5</u>	<u>Point 1</u>	<u>CPU</u>	2.0 GHz or Higher, Quad-core or Higher	2.0 GHz or Higher, Dual-core or Higher
8	<u>5</u>	<u>Point 5</u>	<u>Cache acceleration Support</u>	All 12 bays	All Bays if expansion is added that also should support
9	<u>5</u>	<u>Point 6</u>	<u>10 Gigabit Ethernet Port</u>	4xRJ45 10GBASE-T via a pre-installed PCIe network card, supporting 10G/5G/2.5G/1G/100 M speeds	4xRJ45 10GBASE-T via a pre-installed PCIe network card, supporting 10G/5G/2.5G/1 G speeds
10	<u>5</u>	<u>Point 7</u>	<u>PCIe Slot</u>	1x PCIe 2.0x4	This point has been removed
11	<u>5</u>	<u>Point 8</u>	<u>USB Ports</u>	2 x USB 3.0 2 x USB 2.0	This point has been removed
12	<u>5</u>	<u>Point 10</u>	<u>Power Supply</u>	2x 300 W, 100-240 V	Should support 500W, 100-240V with dual redundant
13	<u>5</u>	<u>Point 11</u>	<u>Fan</u>	2 x 7cm smart fans	2 redundant hot plug smart fans
14	<u>5</u>	<u>Point 13</u>	<u>Networking</u>	ould Support P/IP: Dual Stack (IPv4 and IPv6),	ould Support P/IP: Dual Stack v4 and IPv6),

				<p>umbo Frames (failover, multi-IP settings, port linking/NIC Teaming), 802.11n WiFi Adapter, Virtual Switch, NAT, STP</p>	<p>umbo Frames (failover, multi-IP settings, port linking/NIC Teaming), Virtual Switch, NAT, STP</p>
15	<u>5</u>	<u>Point 14</u>	iSCSI (IP SAN)	<p>Should Support iSCSI targets with multiple LUNs per target LUN mapping and masking, Online LUN capacity expansion, SCSI-3 persistent reservation, MPIO & C/S, iSCSI LUN backup, one-time snapshot and restoration, virtual disks using iSCSI initiator, Stack changing master</p>	<p>This Point has been removed</p>
16	<u>5</u>	<u>Point 15</u>	NAS File System	<p>Should support EXT4 internal file system and EXT3, EXT4, NTFS, FAT32, HFS+ for external hard drive</p>	<p>This Point has been removed</p>
17	<u>5</u>	<u>Point 17</u>	Hard Disks HDD	<p>11x 8TB 7200rpm SATA III 3.5" internal NAS HDD</p>	<p>80 TB USable space with RAID 5</p>
18	<u>5</u>	<u>Point 18</u>	SSD HDD	<p>500 GB</p>	<p>5x 400GB with tearing license</p>
19	<u>5</u>	<u>Point 19</u>	RAID Management	<p>RAID level 0 (0+1), 3, 5, 6, 10, 30, 50, 60 & JBOD, Multiple Array Support Up to 4096 Logical Volumes Up to 64 Disk Drives Per Volume Group, Hot-Swap Drive Support Global & Dedicated Spare Drive Assignment, Non-Disruptive Online Volume Migration, Online Volume Expansion, Thin Provision</p>	<p>RAID level 0 (0+1), 3, 5, 6, 10, 30, 50, 60 Multiple Array Support Up to 4096 Logical Volumes Up to 64 Disk Drives Per Volume Group, Hot-Swap Drive Support Global & Dedicated Spare Drive Assignment, Non-Disruptive Online Volume Migration,</p>

					Online Volume Expansion, Thin Provision
20	<u>6</u>	<u>Point 20</u>	Storage Pool	Should support RAID 10+hot spare, 10, 6+ hot spare, 6, 5+ spare, 5, 1, JBOD, Single Disk, Global hot spare for data redundancy. The supply of NAS should support storage pool, iSSCI Target, iSCSI LUN Snapshot/backup	Should support RAID 10+hot spare, 10, 6+ hot spare, 6, 5+ spare, 5, Single Disk, Global hot spare for data redundancy.
21	<u>6</u>	<u>Point 21</u>	Domain Controller	The Supply of NAS should support Windows AD and LDAP server/client authentication,	This point has been removed.
22	<u>6</u>	<u>Point 22</u>	Backup Management	Should support windows ACL and shared folder level ACL support Should support Advanced folder permission with Subfolder ACL supports for CIFS/SMB Should support replication between identical NAS on real time or on scheduled based without any additional license cost Should support rsync protocol for remote replication Dual -Active RAID Controllers Cache Mirroring Through Dedicated High Bandwidth Channels, Flexible RAID Group Ownership, Management Port Seamless Fail -Over, Online Firmware	Should support windows ACL and shared folder level ACL support Should support Advanced folder permission with Subfolder ACL supports for CIFS/SMB Should support rsync protocol for remote replication Dual -Active RAID Controllers Cache Mirroring Through Dedicated High Bandwidth Channels, Flexible RAID Group Ownership, Management Port Seamless

				<p>Upgrade, No System Down Time, Multi - Path & Load - Balancing Support (Microsoft MPIO, MC/S, Trunking, LACP) Integrated Array -Based Hardware Replication (Between ES4200, ES3200 and ES2000 series)</p> <p>Should support one touch copy from external drives connected to NAS automatically</p> <p>Should support a app with retention file if the file is deleted via CIFS/SMB and AFP without any additional cost</p> <p>The systems admin should get the notification via email and SMS if any malfunction appears in the NAS</p>	<p>Fail -Over, Online Firmware Upgrade, No System Down Time, Multi - Path & Load - Balancing Support (Microsoft MPIO, MC/S, Trunking, LACP) Integrated Array -Based Hardware Replication (Between ES4200, ES3200 and ES2000 series)</p>
24	<u>6</u>	<u>Point 23</u>	Compatible/Features	Alert Notification (Email, SMS), LED indicators for HDD, USB, LAN, button	Alert Notification (Email, SMS), LED indicators for HDD, LAN, button
25	<u>6</u>	<u>Point 24</u>	Warranty	5 years comprehensive Onsite OEM Warranty with Next Business Day resolution	5 years comprehensive Onsite OEM Warranty with Next Business Day resolution, 24x7 Technical support from OEM
25	<u>6</u>	<u>C. FC SAN Switch</u>			This table is totally removed with no requirement of

		<u>Specification</u> <u>s</u>			the SAN Switch. The above SAN Storage and Server will be connected with Direct Connection.
26	<u>7</u>	<u>KVM Switch</u> <u>Ports</u>	Screen Size	Minimum 17 inch	Minimum 15 inch

- All the necessary cables to connect the server with SAN Box and KVM Switch with Power Cords needs be provided and included in the total cost.
- All the Items mentioned in the tender should be quoted to be considered for price bid opening.
- An order will be placed to one vendor only.

The last day for submission of bids has been extended to 19.10.2020 till 17:00 Hrs.

All other terms will remain same.

Sd/-

Assistant Registrar