

March 8, 2017

Subject: Minutes Of the Pre Bid Meeting

Members		Contractors attended Pre-bid Meeting
Shri Manoj Kumar K.,Scientist-D & Chairman, Purchase Committee	Shri Abhishek Kumar, Scientist-C & Indentor	Mr. Kashyap Doshi, Chintech Computers Mr. Kirit Joshi, Ashtech Infotech Pvt. Ltd. Mr. Mehul Shah, Mehulendra Corporation
Shri Yatrik Patel, Scientist-D & Indentor	Shri Gaurav Prakash Scientist – B, Invitee	
Smt. S.M. Munshi Section Officer(P&S)		

		Parameter	Required in Tender	Require Change	Response from INFLIBNET
Annexure IV	Page 11	Memory Features	Should Support Advance Memory Features 1) Memory quarantine 2) Double data device correction 3) Single data device correction 4) Online Memory sparing 5) Memory mirroring	Should support Advance ECC with Multi bit error Protection and Memory online Spare Support	Accepted, To be read as "Should Support Advance ECC with multibit error protection and Memory online spare support"
	Page 11	Network	At least 2 No's 1GB Ethernet Ports	Recommended Atleast 4 no's 1GB Ethernet Ports	Not Accepted.
	Page 13	Industry Certifications	ACPI 2.0b Compliant PCIe 3.0 Compliant PXE Support WOL Support Microsoft® Logo certifications USB 3.0 Support, Energy Star ASHRAE A3/A4	Energy star certification available only on low power CPU configuration	We will consider this as deviation.

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Annexure V	Page 14	Memory Features	Should Support Advance Memory Features 1) Memory quarantine 2) Double data device correction 3) Single data device correction 4) Online Memory sparing 5) Memory mirroring	Should support Advance ECC with Multi bit error Protection and Memory online Spare Support	Accepted, To be read as "Should Support Advance ECC with multibit error protection and Memory online spare support"
	Page 14	Network	At least 2 No's 1GB Ethernet Ports	Recommended Atleast 4 no's 1GB Ethernet Ports	Not Accepted
	Page 16	Industry Certifications	ACPI 2.0b Compliant PCIe 3.0 Compliant PXE Support WOL Support Microsoft® Logo certifications USB 3.0 Support, Energy Star ASHRAE A3/A4	Energy star certification available only on low power CPU configuration	We will consider this as deviation.
Annexure VI	Page 17	Memory Features	Should Support Advance Memory Features 1) Memory quarantine 2) Double data device correction 3) Single data device correction 4) Online Memory sparing 5) Memory mirroring	Should support Advance ECC with Multi bit error Protection and Memory online Spare Support	Accepted, To be read as "Should Support Advance ECC with multibit error protection and Memory online spare support"
	Page 17	Network	At least 2 No's 1GB Ethernet Ports	Recommended Atleast 4 no's 1GB Ethernet Ports	Not Accepted
	Page	USB	4 or more USB 3.0	4 or more USB 3.0 Ports to be	4 or more USB Ports to be

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	17		Ports to be supported	supported out of which atleast two should be USB 3.0	supported out of which atleast two should be USB 3.0
	Page 19	Industry Certifications	ACPI 2.0b Compliant PCIe 3.0 Compliant PXE Support WOL Support Microsoft® Logo certifications USB 3.0 Support, Energy Star ASHRAE A3/A4	Energy star certification available only on low power CPU configuration	We will consider this as deviation.
Annexure VII	Page 20	Ports Rear	Rear: 4 USB (Atleast Two should be USB 3.0) 2 PS/2 (keyboard and mouse) 1 VGA 2 DisplayPort 1 audio line in 1 audio line out 1 RJ-45	Rear: 4 USB (Atleast Two should be USB 3.0) 2 PS/2 (keyboard and mouse) 1 VGA 1 DVI-D 1 audio line in 1 audio line out 1 RJ-45	Should be read as : Rear: 4 USB (Atleast Two should be USB 3.0) 2 PS/2 (keyboard and mouse) 1 VGA 1 Display Port 1 audio line in 1 audio line out 1 RJ-45
	Page 20	Power Supply	Suitable for Indian power conditions with efficiency up to 92% with active power factor correction	Suitable for Indian power conditions with efficiency up to 85% with active power factor correction	Accepted To be read as "Suitable for Indian power conditions with efficiency up to 85% with active power factor correction, preference will be given to system with higher efficiency"

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Annexure VIII	Page 21	OS and CPU	Linux embedded NAS with -i7-16G: Quad-	Intel Xeon E5-2400 v2 family processor, Intel Xeon 6-core Processor E5-2420 v2 (15M Cache, 2.20GHz)	Not accepted
			core	OS Support: Windows 2000, Windows Server 2003, Windows Server 2008, Windows Server 2012,	
			OS Support: Windows 2000, Windows Server 2003, Windows Server 2008, Windows Server 2012,	Apple Mac OS X	
			Windows XP, Linux®, Mac OS X, Oracle Solaris, AIX, HP-UX, Mac® OS, VMware®, ESX	Linux & UNIX	
	Page 21	Hard drives interface	Should support 8 hard drives bay and SFF SATA 6Gb/s which initial storage space of 50TB (in 4 bays / hard drives only) usable after RAID 5 configuration. Hard disk tray should be hot swappable.	Supports 16 hard drives bay and SFF SAS12Gbps, SAS 6Gbps, SATA and SSD. Hard disk tray are hot swappable	Not Accepted
	Page 21	Connectivity Interface	Minimum Dual Giga LAN port, Dual USB	2 Giga LAN port; Dual USB3.0 ports	Not Accepted

Information Library Network (INFLIBNET) Centre, INFOCITY, Gandhinagar.

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			2.0 & 3.0 Ports and Single HDMI port to be onboard. The Supply of NAS should support Wireless LAN via US WIFI adapter		
	Page 21	NAS File system	Should support EXT4 internal file system and EXT3, EXT4, NTFS, FAT32, HFS+ for external hard drive	ZFS File System	Not Accepted
	Page 21	RAID Management	RAID level 0 (0+1), 3, 5, 6, 10, 30, 50, 60 &	Raid level 0, 1, 5, 5+ spare, 6, 6+ spare, 10, 10+ hot spare, Single Disk, JBOD, Global spare. Multiple array supports; Max: 4096 users; 512 max. no. of users groups, 512, max. no. of shared folders, 1500 concurrent users max. Thin Provisioned volume, online RAID capacity expansion online RAID level migration, hot swap drive supported	RAID level 0 (0+1), 3, 5, 6, & JBOD
			JBOD		
			Multiple Array Support		
			Up to 4096 Logical Volumes		
			Up to 64 Disk Drives Per Volume Group		
			Hot-Swap Drive Support		Hot-Swap Drive Support
			Global & Dedicated Spare Drive		Global & Dedicated Spare Drive
			Assignment		Assignment

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			Non-Disruptive Online Volume Migration		Non-Disruptive Online Volume Migration
			Online Volume Expansion		Online Volume Expansion
			Thin Provision		Thin Provision
	Page 22		(8) SFP+, 10GbE iSCSI (8) RJ45, 1GbE iSCSI	8 SFP+ ports, 2 Gigabit LAN ports	Two 10 G and Four 1 G LAN port
	Page 22	Form factor	Tower	3U rack Mount	Not Accepted
	Page 22	Backup Management	Dual-Active RAID Controllers	Active-Active Controllers; Internal cache port M.2 SSD dedicated to NV RAM SATA signaling; Multiple RAID groups; Management ports, No system down time;	Removed
			Cache Mirroring Through Dedicated High		
			Bandwidth Channels		
			Flexible RAID Group Ownership		
			Management		
			Management Port Seamless 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)		

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	Page 22		Should support one touch copy from external drives connected to NAS Automatically.	Request to remove	Not Accepted
	Page 22		Should support a app with retention file if the file is deleted via CIFS/SMB and AFP without any additional cost	Request to Remove	Not Accepted
	Page 22	Virtualization	Should support to run additional OS on the NAS, should support VM creation, VM backup and restroration	Request to Remove	Not Accepted
	Page 22		Should support VM import/export, snapshot, device management.		
	Page 22		Should support LXC and dockers lightweight Virtualization technologies	Request to Remove	Removed
	Page 22		Should support QvPC technology for computing high end virtualization technologies	Request to Remove	Removed

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	Page 23	Cloud Storage	<p>the supply of NAS should support public</p>	<p>Compatible with HPE Helion for extending horizons to OpenStack cloud. QNAP x Platform9: Deploy a Hybrid Cloud with OpenStack</p>	<p>the supply of NAS should support public cloud storage for disaster recovery like Microsoft Azure, Dropbox and google drive.</p>
			<p>cloud storage for disaster recovery like Microsoft Azure, Dropbox and onedrive box.</p>		
	Page 23	Synchronizat ion	<p>Should support file sunchronization from multiple devices. Any file uploaded to NAS should be made available for all linked devices such as computers, laptops or mobile devices in order to access to the most-recent files from anywhere.</p>	<p>Request to remove</p>	<p>Not Accepted</p>

A. FOR TOWER SERVER QTY – 01 NO.

SR No.	Parameter	Specification	Queries	Response
6	Memory Features	Should Support Advance Memory Features 1) Memory quarantine 2) Double data device correction 3) Single data device correction 4) Online Memory sparing 5) Memory mirroring	we support the following memory protction technologies . The requested technologies are offered by one specific OEM. Advanced ECC Memory Scrubbing SDDC (Chipkill™) Rank sparing memory support Memory Mirroring support. PI remove below features : 1) Memory quarantine 2) Double data device correction	Accepted, To be read as "Should Support Advance ECC with multibit error protection and Memory online spare support"
15	Remote Management	System remote management should support browser based Graphical Remote Console; Virtual Power button, Remote boot using USB / CD/ DVD Drive and should be capable to offer upgrade of software and patches from a remote client using Media / image/folder; server power capping and historical reporting; should have support for multifactor authentication.	Shall allow management solution from same HW OEM	Not Accepted
		Server should support agentless management using the out-of-band remote management port instead of OS and SNMP port on the OS to enable Zero Downtime Updates	There will be a restart required to implement the updates in some OS. Pleae consider this	Requirement is of Zero Downtime
		Remote console sharing with multiple users simultaneously during pre-OS and OS runtime	What is the purpose of this feature. We can redirect the console over IP via web browser	The console should be shared by multiple users simultaneously , by any

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		operation		means.
23	Industry Certifications	ACPI 2.0b Compliant PCIe 3.0 Compliant PXE Support WOL Support Microsoft® Logo certifications USB 3.0 Support Energy Star ASHRAE A3/A4	PI remove Energy star certification	We will consider this as deviation.

B. FOR RACK SERVER QTY – 01 NO

SR No.	Parameter	Specification	Queries	Response
6	Memory Features	Should Support Advance Memory Features 1) Memory quarantine 2) Double data device correction 3) Single data device correction 4) Online Memory sparing 5) Memory mirroring	we support the following memory protection technologies . The requested technologies are offered by one specific OEM. Advanced ECC Memory Scrubbing SDDC (Chipkill™) Rank sparing memory support Memory Mirroring support. PI remove below features : 1) Memory quarantine 2) Double data device correction	Accepted, To be read as "Should Support Advance ECC with multibit error protection and Memory online spare support"
15	Remote Management	System remote management should support browser based Graphical Remote Console; Virtual Power button, Remote boot using USB / CD/ DVD Drive and should be capable to offer upgrade of software and patches from a remote client using Media / image/folder; server power capping and historical reporting; should have support for multifactor authentication.	Shall allow management solution from same HW OEM	Not Accepted

		Server should support agentless management using the out-of-band remote management port instead of OS and SNMP port on the OS to enable Zero Downtime Updates	There will be a restart required to implement the updates in some OS. Please consider this	Requirement is of Zero Downtime
		Remote console sharing with multiple users simultaneously during pre-OS and OS runtime operation	What is the purpose of this feature. We can redirect the console over IP via web browser	The console should be shared by multiple users simultaneously, by any means.
23	Industry Certifications	ACPI 2.0b Compliant PCIe 3.0 Compliant PXE Support WOL Support Microsoft® Logo certifications USB 3.0 Support Energy Star ASHRAE A3/A4	PI remove Energy star certification	We will consider this as deviation.

C. FOR SERVER WITH IN-BUILT STORAGE – 01 NO.

SR No.	Parameter	Specification	Queries	Response
6	Memory Features	Should Support Advance Memory Features 1) Memory quarantine 2) Double data device correction 3) Single data device correction 4) Online Memory sparing 5) Memory mirroring	we support the following memory protection technologies . The requested technologies are offered by one specific OEM. Advanced ECC Memory Scrubbing SDDC (Chipkill™) Rank sparing memory support Memory Mirroring support. PI remove below features : 1) Memory quarantine 2) Double data device correction	Accepted, To be read as "Should Support Advance ECC with multibit error protection and Memory online spare support"

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15ot	Remote Management	System remote management should support browser based Graphical Remote Console; Virtual Power button, Remote boot using USB / CD/ DVD Drive and should be capable to offer upgrade of software and patches from a remote client using Media / image/folder; server power capping and historical reporting; should have support for multifactor authentication.	Shall allow management solution from same HW OEM	Not Accepted
		Server should support agentless management using the out-of-band remote management port instead of OS and SNMP port on the OS to enable Zero Downtime Updates	There will be a restart required to implement the updates in some OS. Please consider this	Requirement is of Zero Downtime
		Remote console sharing with multiple users simultaneously during pre-OS and OS runtime operation	What is the purpose of this feature. We can redirect the console over IP via web browser	The console should be shared by multiple users simultaneously, by any means.
23	Industry Certifications	ACPI 2.0b Compliant PCIe 3.0 Compliant PXE Support WOL Support Microsoft® Logo certifications USB 3.0 Support Energy Star ASHRAE A3/A4	PI remove Energy star certification	We will consider this as deviation.

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D. FOR COMPUTER SYSTEM (ANNEX- III & ANNEX. VII)

No.	Parameter	Specification	Queries	Response
13	Ports Rear	Rear: 4 USB (Atleast Two should be USB 3.0) 2 PS/2 (keyboard and mouse) 1 VGA 2 DisplayPort 1 audio line in 1 audio line out 1 RJ-45	a. PI remove 2 –PS/2 Ports b. 1 – port of VGA/Dipslay Port/ HDMI port	Should be read as : Rear: 4 USB (Atleast Two should be USB 3.0) 2 PS/2 (keyboard and mouse),1 VGA 1 Display Port, 1 audio line in1 audio line out 1 RJ-45

No.	Parameter	Specification	Queries	Response
Page8	Instruction of bidders	Terms of Payment	Require clarify	The terms are same as defined in tender 80:20% for FE and 90:10% for INR transaction.
	Last Date of Bid submission	For extension of bid submission date	Request for extension	Accepted. EXTENDED TILL 24.3.2017 1600 HRS.