


ADDENDUM / clarification

S. No.	Queries of the Parties who attended the pre-bid meeting	Clarification from HBNI
1.	Can the customer (HBNI) specify any particular brand for various products?	We cannot specify any particular brand. Parties must quote as per the detailed technical specification as provided with the tender document.
2.	What are the probable locations of three laptops and two numbers of wall mounted flat panel displays?	Two number of Laptops, shown as Laptop-1 & 2 in the AV System Schematic Diagram on page 11 of 37 item "D", are connected through WIFI and are to be placed on conference table. In addition, Laptop-3 will be on the presenter's table in parallel to Desktop. Laptop-3 is connected through cable. Two numbers of wall mounted flat panel displays, which would be supplied by the party, need to be installed on the left and right side of existing projector screen.
3.	Page no. 15 of 37: In what way the matrix switcher is connected to Display panels and projector?	Output from matrix switcher should be connected to the display panels (Four Nos.) on the sides and projector (One No.) over HDMI transmitter and receiver over shielded CAT6 cable. Shielded CAT6 cable must be 24 AWG or better.
4.	Page no. 13 of 37: How are the audio input sources connected?	All audio inputs sources should be connected individually per input channel on the digital audio processor(s).
5.	How are the speakers connected to the output channel of the amplifier?	Ceiling speakers (8 nos.) to be used for distributed audio. Ceiling speakers should to be connected to individual output channel of the amplifier(s). Speakers need to be minimum 30 watts RMS at 8 Ohms.
6.	What is the detailed specification of the servers?	Detailed specifications of the server is given in Annexure-I
7.	Do you need OEM certification?	The parties must give OEM Certification in addition to Manufacturer's Authorisation Form (MAF) for all the quoted brands.
8.	What about Software licenses?	All softwares need to quoted with perpetual license
9.	What is the permissible downtime of Council Hall?	We can allow maximum downtime of two weeks for the council hall for installation and commissioning purpose.

10.	General	<p>HBNI official explained some typos in the tender document:</p> <ol style="list-style-type: none">1. On page 9 of 37, wall mounted flat panel displays (2+2) are existing and as specified in the tender document, two needs to be supplied and finally it would become (3+3) after this supply.2. On page 10 of 37, item "C – (v)", the word streaming has unintentionally gone to next line.3. On page 11 of 37 item "D", titled as AV System Schematic Diagram it is shown as HDMIx5 lines going towards right from Switcher, Distributor and Control but actually it is HDMIx7 lines as there would be in total (3+3) wall mounted flat panel displays in addition to one projector.
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Annexure-I

Item No.: 1	Servers - 02 Nos.	
S.No.	Description	Specifications
1.	CPU Xeon	2 Nos x Intel Xeon E5-2690 v4, 2.6GHz, 35M Cache, 14C or Higher
2.	Memory	64GB, DDR4-2133 MHz , Registered ECC using 16GB or higher modules
3.	HD Controller & Disks, Hot Swap support	On-board Hardware RAID 3108 12 Gbps Support RAID 0, 1 5,6 & 10 SAS/SATA
		SATA-III, 6 Gbps, Hot swap disks, 3.5", Support RAID 0, 1 5,6 & 10
4.	Hard Disk Bays,	LFF -3.5" Bays 8 Nos.,
	8 x 2 TB SATA Disks, 32 MB Cache, LFF,7200 rpm, 6 Gb/s	8 x 2TB SATA Disks 32 MB cache, LFF, 7200 rpm, 6 Gb/s
5.	Motherboard	Supports Dual Xeon CPUs, 14 Core Xeon E5-2600 V4 series processors and C612 series chipset , Max 512 GB support
6.	Optical Disk	Slim DVD-RW internal
7.	Ethernet ports 10/100/1000 Mbps	Six Nos. 10/100/1000 Mbps Ethernet ports
8.	Graphics	Onboard BMC integrated Aspeed AST2400 (PCIe VGA/2D controller 1920x1200@60Hz, 32 bpp, SDRAM memory 800Mbps DDR3/DDR2 SDRAM 16 bit data bus width upto 512 MB ECC option
9.	USB ports	At least 2 free ports on front and 2 ports for keyboard & Mouse
10.	Expansion Slots	4xPCI-E 3.0 x 16, 2x PCI-E 3.0 x 8
11.	Keyboard, Mouse	107 Keys USB Keyboard, USB Mouse
12.	VGA	Onboard Aspeed AST2400 BMC VGA
13.	Form Factor	2U, rack mountable chassis with Rail Mount kit
14.	Cooling	Hot swap Fans : 5 for Dual CPU and Memory ; N+1 redundancy
15.	Power supply	750W, Dual redundant, Hot swap, High efficiency, with cooling fan 80PLUS Platinum
16.	Remote server management	IPMI 2.0, SNMP and Web browser 1 x RJ45 Dedicated IPMI LAN Port
17.	KVM over LAN	Remotely viewing video with graphics resolutions at full resolution and refresh rate Remote Presence : accessing the server including graphics, using the keyboard and mouse from a remote client
18.	Motherboard Compatibility Approval	Validated Memory Models, CPU, Hard Disks and Add on cards

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19.	OS Support	MS Windows servers 2003, 2008 or better, CentOS 5,6, & 7 RHE, Ubuntu, Scientific, & SUSE Linux, VMWare 3.5 or higher
20.	Noise Level	Max. 65 dB @1.5 m with full load
21.	Health monitoring &	CPU, FAN, Temperature
22.	Security	Chassis intrusion detection
23.	Rack mount accessories	Rack Mountable kit
24.	Power Cord	1.5 meter 3 pin Socket Power cord
25.	Monitor	24" LED with VGA, DVI/HDMI interface – 2 Nos. for 2 servers


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