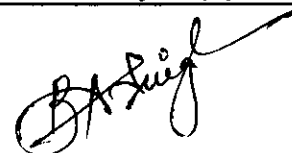


**SCHEDULE –“B”**  
**SPECIFICATIONS OF THE STORES**

**ITEM NO. 3: BASIC PC – AMD BASED 64X2 DUAL CORE WITH LINUX**

1	Make	HCL, Acer, Lenovo
2	Model	HCL-Lx Infiniti Orbital K/M 6040 , Acer-Acer Power 780, Lenovo-Think Centre A61
3	Processor	AMD Athlon 64 X2 5000 + or higher/latest: Dual core 2.6 GHz or higher, 1 MB L2 Cache, 2000 MHZ Hyper Transport bus socket AM2.
4	Chipset	AMD 780 G Chipset or higher/latest
5	Memory	1 GB(1x1GB) DDR2 @ 667 MHz or higher
6	Motherboard	OEM Motherboard should have following features:
7		PCI Bus architecture.
8		Minimum PCI- (2nos) , PCIe (1nos), PCI e x16 (1) slot
9		Should have Serial ATA-300 controller onboard
10		Chipset should support for 2000 MHz Bus
11	Monitor	17" wide TFT LCD
12	Display controller & Graphics	Integrated (onboard) Intel
13	Hard Disk	160 GB SATA 3.0- GB/s hard drive (7200) rpm
14	Optical Drive	8X or higher DVD ROM Drive
15	Ethernet Interface	32 bit onboard 10/100/1000 MBPS auto sensing gigabit Ethernet interface with Wake on LAN support and PXE, UTP port
16	Ports	One ECP/EPP parallel port, One serial port (16550), and 6 USB(ver. 2.0) out of which 2 in front, 1 RJ45 , VGA , 1 Line-in/Line out, 2 PS/2 Ports
17	Cabinet	Mini Tower
18	Keyboard	PS/2 / USB Heavy duty Bi Lingual (INSCRIPT) etched Membrane Keyboard having key life of 10 million strokes or more, cabinet & Keyboard should be of the same colour
19	Mouse	PS/2 / USB type optical scroll mouse.
20	Power Supply	300 watts or above SMPS with surge protection ATX 12V 1.2 Compliance Onboard line purification ( Active/Passive Power Factor Correction) Shielded/Sheathed cable, AC Ripple voltage should not exceed +/- 0.1 volts. Variation in voltage at each rail should not exceed 3% under Idle & Full load.
21	Power Management	APM (advanced Power Management) feature
22	Security	a. Set up password b. Power On Password c. Security Loop d. Administrator Password e. Serial, Parallel & USB interface control.
23	Manageability	a. Asset Management. B. System Health management. C. Remote management & Failure alerts.
24	Operating system	A) Pre installed linux (without CD) with Free Open Office
		All drivers required for proper integration of components, OS and Restore images on a separate partition on the hard disk shall be supplied by vendor. All latest drivers shall be available to down load from vendor's website.
25	OS Certifications	Win Logo XP and Vista Business OS and Linux certifications
26	Accessories	Good Quality Mouse Pad & Dust Cover
27	Warranty	3 years comprehensive on site
28	AMC	After three years of warranty, the rate for AMC for 4 <sup>th</sup> and 5 <sup>th</sup> year. ( Quote separately)



ITEM NO. 4- AMD BASED 64X2 DUAL CORE WITH WINDOW

1	Make	HCL, Acer, Lenovo, Dell
2	Model	HCL-Lx Infiniti Orbital K/M 6040 , Acer-Acer Power 780, Lenovo-Think Centre A61, Dell-Optiplex Series
3	Processor	AMD Athlon 64 X2 5000 + or higher/latest: Dual core 2.6 GHz or higher, 1 MB L2 Cache, 2000 MHZ Hyper Transport bus socket AM2.
4	Chipset	AMD 780 G Chipset or higher/latest
5	Memory	1 GB(1x1GB) DDR2 @ 667 MHz or higher
6	Motherboard	OEM Motherboard should have following features:
7		PCI Bus architecture.
8		Minimum PCI- (2nos) , PCIe (1nos), PCI e x16 (1) slot
9		Should have Serial ATA-300 controller onboard
10		Chipset should support for 2000 MHz Bus
11	Monitor	17" wide TFT LCD
12	Display controller & Graphics	Integrated (onboard) Intel
13	Hard Disk	160 GB SATA 3.0- GB/s hard drive (7200) rpm
14	Optical Drive	8X or higher DVD ROM Drive
15	Ethernet Interface	32 bit onboard 10/100/1000 MBPS auto sensing gigabit Ethernet interface with Wake on LAN support and PXE, UTP port
16	Ports	One ECP/EPP parallel port, One serial port (16550), and 6 USB(ver. 2.0) out of which 2 in front, 1 RJ45 , VGA , 1 Line-in/Line out, 2 PS/2 Ports
17	Cabinet	Mini Tower
18	Keyboard	PS/2 / USB Heavy duty Bi Lingual (INSCRIPT) etched Membrane Keyboard having key life of 10 million strokes or more, cabinet & Keyboard should be of the same colour
19	Mouse	PS/2 / USB type optical scroll mouse.
20	Power Supply	300 watts or above SMPS with surge protection ATX 12V 1.2 Compliance Onboard line purification ( Active/Passive Power Factor Correction) Shielded/Sheathed cable, AC Ripple voltage should not exceed +/- 0.1 volts. Variation in voltage at each rail should not exceed 3% under Idle & Full load.
21	Power Management	APM (advanced Power Management) feature
22	Security	a. Set up password b. Power On Password c. Security Loop d. Administrator Password e. Serial, Parallel & USB interface control.
23	Manageability	a. Asset Management. B. System Health management. C. Remote management & Failure alerts.
24	Operating system	Pre installed genuine Licensed Microsoft windows Vista with Restore / Recovery CD with down gradable CD for Window XP, latest service pack and Certificate of Authentication. OEM shall provide free of cost patches and fixes upto a period of 3 years from the date of supply.
		All drivers required for proper integration of components, OS and Restore images on a separate partition on the hard disk shall be supplied by vendor. All latest drivers shall be available to down load from vendor's website.
25	OS Certifications	Win Logo XP and Vista Business OS and Linux certifications
26	Accessories	Good Quality Mouse Pad & Dust Cover
27	Warranty	3 years comprehensive on site
28	AMC	After three years of warranty, the rate for AMC for 4 <sup>th</sup> and 5 <sup>th</sup> year. ( Quote separately)

**ITEM NO. 5: MID RANGE PC - INTEL BASED CORE 2 DUO WITH LINUX**

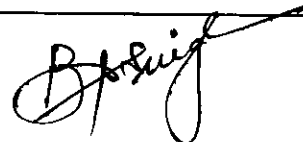
1	Make	Acer, HCL, Lenovo, Dell
2	Model	Acer-Acer Power Q35, HCL-Lx Infiniti Tru/Pro BL 1295, Lenovo-Think Centre M57, Dell-Optiplex Series
3	Processor	Intel Core 2 Duo E6550 (2.33 GHz, 1033 MHz FSB, 4 MB L2 Cache) or higher/latest
4	Chipset	Intel Q35 Express or higher/latest with 4 DIMM Slots
5	Memory	2 GB (2 x 1 GB) DDR2 @ 667 MHz- expandable to 8 GB
6	Motherboard	Intel chipset Motherboard should have following features: PCI Bus architecture. Minimum PCI- (2nos) , PCIe (1nos), PCI e x16 (1) slot Should have Serial ATA-300 controller onboard Chipset should support for 1066 MHz FSB
7		
8		
9		
10		
11	Monitor	17" wide TFT LCD, Resolution 1280 X 1024 Same Make as PC.
12	Display controller Graphics	Integrated ( Onboard) Intel
13	Hard Disk	160 GB SATA 3.0 GB/s hard drive (7200) rpm
14	Optical Drive	8X Dual Layer DVD R/W
15	Ethernet Interface	32 bit onboard 10/100/1000 MBPS auto sensing gigabit Ethernet interface with Wake on LAN support and PXE, UTP port
16	Ports	One ECP/EPP parallel port, One serial port (16550), and 6 USB out of which 2 in front, 1 RJ45 , VGA , 1 Line-in/Line out, 2 PS/2 Ports
17	Cabinet	Mini Tower
18	Keyboard	PS/2 / USB Heavy duty Bi Lingual (INSCRIPT) etched Membrane Keyboard having key life of 10 million strokes or more, cabinet & Keyboard should be of the same colour
19	Mouse	PS/2 / USB type optical scroll mouse.
20	Power Supply	300 watts or above SMPS with surge protection ATX 12V 1.2 Compliance Onboard line purification ( Active/Passive Power Factor Correction) Shielded/Sheathed cable, AC Ripple voltage should not exceed +/- 0.1 volts. Variation in voltage at each rail should not exceed 3% under Idle & Full load.
21	Power Management	APM (advanced Power Management) feature
22	Security	a. Set up password b. Power On Password c. Security Loop d. Administrator Password e. Serial, Parallel & USB interface control.
23	Manageability	A. Asset Management B. System Health management. C. Remote management & Failure alerts.
24	Operating system	A) Pre installed linux (without CD) with Free Open Office
		All drivers required for proper integration of components, OS and Restore images on a separate partition on the hard disk shall be supplied by vendor. All latest drivers shall be available to down load from vendor's website.
25	OS Certifications	Win Logo XP and Vista Business OS and Linux certifications
26	Accessories	Good Quality Mouse Pad & Dust Cover
27	Warranty	3 years comprehensive on site
28	AMC	After three years of warranty, the rate for AMC for 4 <sup>th</sup> and 5 <sup>th</sup> year. ( Quote separately)

**ITEM NO. 6: MID RANGE PC - INTEL BASED CORE 2 DUO WITH WINDOW**

1	Make	Acer, HCL, Lenovo, Dell
2	Model	Acer-Acer Power Q35, HCL-Lx Infiniti Tru/Pro BL 1295, Lenovo-Think Centre M57, Dell-Optiplex Series
3	Processor	Intel Core 2 Duo E6550 (2.33 GHz, 1033 MHz FSB, 4 MB L2 Cache) or higher/latest
4	Chipset	Intel Q35 Express or higher/latest with 4 DIMM Slots
5	Memory	2 GB (2 x 1 GB) DDR2 @ 667 MHz- expandable to 8 GB
6	Motherboard	Intel chipset Motherboard should have following features:
7		PCI Bus architecture.
8		Minimum PCI- (2nos) , PCIe (1nos), PCI e x16 (1) slot
9		Should have Serial ATA-300 controller onboard
10		Chipset should support for 1066 MHz FSB
11	Monitor	17" wide TFT LCD, Resolution 1280 X 1024 Same Make as PC.
12	Display Graphics controller/	Integrated ( Onboard) Intel
13	Hard Disk	160 GB SATA 3.0 GB/s hard drive (7200) rpm
14	Optical Drive	8X Dual Layer DVD R/W
15	Ethernet Interface	32 bit onboard 10/100/1000 MBPS auto sensing gigabit Ethernet interface with Wake on LAN support and PXE, UTP port
16	Ports	One ECP/EPP parallel port, One serial port (16550), and 6 USB out of which 2 in front, 1 RJ45 , VGA , 1 Line-in/Line out, 2 PS/2 Ports
17	Cabinet	Mini Tower
18	Keyboard	PS/2 / USB Heavy duty Bi Lingual (INSCRIPT) etched Membrane Keyboard having key life of 10 million strokes or more, cabinet & Keyboard should be of the same colour
19	Mouse	PS/2 / USB type optical scroll mouse.
20	Power Supply	300 watts or above SMPS with surge protection ATX 12V 1.2 Compliance Onboard line purification ( Active/Passive Power Factor Correction) Shielded/Sheathed cable, AC Ripple voltage should not exceed +/- 0.1 volts. Variation in voltage at each rail should not exceed 3% under Idle & Full load.
21	Power Management	APM (advanced Power Management) feature
22	Security	a. Set up password b. Power On Password c. Security Loop d. Administrator Password e. Serial, Parallel & USB interface control.
23	Manageability	A. Asset Management B. System Health management. C. Remote management & Failure alerts.
24	Operating system	Pre installed genuine Licensed Microsoft windows Vista with Restore / Recovery CD with down gradable CD for Window XP, latest service pack and Certificate of Authentication. OEM shall provide free of cost patches and fixes upto a period of 3 years from the date of supply.
		All drivers required for proper integration of components, OS and Restore images on a separate partition on the hard disk shall be supplied by vendor. All latest drivers shall be available to down load from vendor's website.
25	OS Certifications	Win Logo XP and Vista Business OS and Linux certifications
26	Accessories	Good Quality Mouse Pad & Dust Cover
27	Warranty	3 years comprehensive on site
28	AMC	After three years of warranty, the rate for AMC for 4 <sup>th</sup> and 5 <sup>th</sup> year. ( Quote separately)

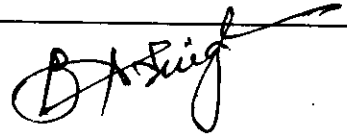
**OPTIONAL / ADDITIONAL ITEMS FOR PC**

1	15" TFT LCD Monitor	Resolution 1024 x 768 Same Make as PC.
2	17" TFT LCD Monitor	Resolution 1280 X 1024 Same Make as PC.
3	19" TFT LCD Monitor	Resolution 1280 X 1024 Same Make as PC.
4	CRT Monitor	15" CRT . Same Make as PC.
5	CRT Monitor	17" (43.2 cms) CRT Same Make as PC.
6	Modem	Internal 56 kbps (Fax/Data/Voice) Modem
7	Modem	External 56 kbps (Fax/Data/Voice) Modem
8	Wireless LAN Card	802.11 b/g
9	Additional Memory	512 MB, 1GB, 2 GB 667 MHz, DDR2 Memory
10	Additional Memory	512 MB, 1 GB, 2 GB 1 GB, 667 MHz, SDRAM Memory
11	Pen Drive	1.0 GB, 2.0 GB, 4 GB and 8 GB (Branded)
12	1 inch Pocket Drive	12 GB with USB 2.0 Interface
13	Additional HDD	80 GB & 160 GB SATA
14	Optical Drive	8X Dual Layer DVD R/W
15	Optical Drive	8X DVD ROM
16	Fingerprint Keyboard	
17	Bilingual Keyboard in English and Devnagari	
18	Fingerprint Mouse	Mouse with Biometric Finger Print Reader and Software
19	LAN Card	
20	Web Camera	
21	Wireless Keyboard	
22	Optical Mouse with scroll	
23	Wireless Mouse with scroll	
24	Linux Installer Kit	Linux Installer Kit with drivers and automatic installation and X configuration utility.



**ITEM NO. 7: THIN CLIENTS**

1	Make	HCL, AGS
2	Model	HCL-WINBee 4000 BIX, AGS-NanoPC
3	Flash Memory	Self-powered 512 MB
4	Main Memory	512 MB
5	Processor	VIA Eden 1 GHz or above – fan less design
6	Peripherals	3 years warranty (a) PS/2 Optical mouse (b) 17" inch LCD Color Monitor having TCO'03 and MPR II Certification (c) PS/2 USB Heavy duty Bi Lingual (INSCRIPT) etched Membrane Keyboard having key life of 10 million strokes or more, cabinet & Keyboard should be of the same colour
7	Network Interface	10/100 Ethernet (auto sensing) NIC, RJ45 connector
8	Ports/Slots	(a) 1 serial port, 1 parallel port , (b) 2 PS/2, 2 USB ports
9	Bootling Support	Locally from flash ROM with Linux embedded.
10	Power supply	ITO-250 Volts AC, at 50 +2HZ, Must be external to avoid internal heating
11	Browser	Firefox [version 1.5 or later] Mozilla acrobat reader, flash player, JRE 1.4.2 or above with support for Open Office

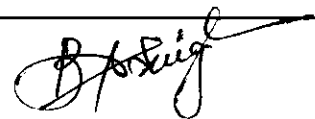


**ITEM NO. 8: NOTEBOOK COMPUTER (INTEL CENTRINO BASED)**

1	Make	HCL, Acer, Dell
2	Model	HCL- Infiniti-Powerlite 9100 PL, Dell- E Series, Acer-Acer 4000 series
3	Processor	Intel Core 2 Duo T7200 Processor (2.0 GHz, 667-MHz FSB, 4-MB L2 cache)
4	Chipset	Intel GM965 Chipset or better
5	Memory	1 GB (1GB x 1) DDR2 RAM @ 667 MHz
6	Hard Disk	160 GB Hard Disk 5400 RPM
7	Display	14.1" WXGA Color TFT with Minimum 1280 x 800 Resolution
9	Display Controller	On board Intel X3100 graphics
10	Optical Drive	8X Dual Layer DVD R/W
11	Internal Modem and Ethernet	56 Kbps V.90 Modem and 10/100/1000 Mbps Ethernet (combo) One RJ-11 (Telephone) and One RJ-45, Mini PC Wi-Fi 802.11a/b/g Wireless Intel PRO/Wireless card
12	Audio Subsystem	On Board audio system
13	PCMCIA Slot	One PCMCIA Slot free
14	Security	Mobile Data Protection System / Hardware Full Disk Encryption
15	Ports	Four USB 2.0, External Monitor, External Mouse/Keyboard, Bluetooth 2.0, RJ-11, RJ-45, Mic. Input, Headphone.
16	Keyboard	Min. 85 Keys Full Size Windows Compatible Spill Resistant Keyboard.
17	Pointing Device	Touch Pad available with keypad.
18	Battery	Lithium – Ion Battery (with 3.0 hours life or more)
19	Operating System	Pre installed genuine Licensed Microsoft windows XP Pro with Restore / Recovery CD, latest service pack and Certificate of Authentication. OEM shall provide free of cost patches and fixes upto a period of 5years from the date of supply.
20	Certification	WLP, PC 2001 compliant, DMI2.0 Compliant, APM 1.2, ACPI, Energy Star
21	AC Adapter	World-Wide AC Compatibility
23	Carrying Case	Standard carry case
24	Weight	Should not be more than 3 Kg
25	Warranty	3 Years onsite


**OPTIONAL / ADDITIONAL ITEMS FOR NOTE BOOK**

1	Additional Memory	512 MB, 1 GB, 2GB 667 MHz DDR2 Memory
2	Floppy Drive	External 1.44 MB, 3.5" USB FDD
3	USB External mouse	2 Button Optical Scroll Mouse
4	Kensington Lock	
5	Docking Station	
6	Port Replicator	



**ITEM NO. 10: ENTRY LEVEL SERVER (INTEL QUAD CORE)**

1	Make	HCL
2	Model	HCL- Infiniti-Global Line 1700 AH
3	Processor	Intel X3320 or higher/latest Quad Core 2.4 GHz or above, 8 MB L2 Cache,1066 MHZ system Bus
4	Chipset	Intel 3110 Chipset or better
5	Memory	2GB (2x 1GB) RAM FBDIMM @667 MHZ ECC unbuffered memory expandable to 8 GB
6	Motherboard	Server Motherboard should have following features:
7		PCI Bus architecture.
8		Minimum PCI-X (2 nos) / 2 nos of PCI express slot
9		Should have Serial ATA-150 controller/ATA-100 with SATA RAID 0,1,5
10		Chipset should support minimum 1000 MHZ FSB
11	Display controller	Integrated graphics
12	Hard Disk	2 x 160 GB SATA 3.0- GB/s hard drive (7200) rpm
13	Optical Drive	8x DVD R/W
14	Ethernet Interface	Onboard 10/100/1000 MBPS auto sensing Ethernet interface with Wake on LAN support
15	Ports	Min 3 USB port
16	Cabinet	ATX, cable of mounting atleast five device
19	Power Supply	350 watt or above SMPS with surge protection. Non redundant Power supply
20	Power Management	APM (advanced Power Management) feature
21	Manageability	Remote Management feature
22	Server Management Software	Bundled software for sever Management for hardware Monitoring, logs, configuration data
23	Warranty	3 years comprehensive on site





**ITEM NO.11: INTEL QUAD CORE PROCESSOR (MID RANGE TWO CPU) RACK SERVER**

1	Make	Dell
2	Model	Dell-Power Edge 2950
3	Processor	Intel X3320 or higher/latest Quad Core 2.4 GHz or above, 8 MB L2 Cache,1066 MHZ system Bus
4	Chipset	Intel 5000P Chipset or higher/latest
5	Memory	4 GB (2x 2 GB) RAM FB DIMM @667 upgradeable to 32 GB
6	Motherboard	Server Motherboard should have following features: PCI Bus architecture. Minimum 3 Nos of PCI express slot Chipset should support for 1000 MHz system Bus
7		
8		
9		
10	Display Controller	Integrated Video Controller
11	Hard Disk	3 x 146 GB, 10k rpm or above LFF/SFF SAS with 8 HOT Swappable Hard Drive
12	RAID Controller	SAS RAID Controller providing 0 to 5 RAID protection, 256MB BBWC
13	Optical Drive	8x DVD R/W
14	Ethernet Interface	Dual onboard 10/100/1000 MBPS auto sensing Ethernet interface with Wake on LAN support
15	Ports	Min 3 USB port
16	Cabinet	RACK optimized
17	Power Supply & Fan	HOT SWAP Dual Redundant Power supply & Fan
18	Power Management	APM (advanced Power Management) feature
19	Manageability	Remote Management feature
20	Server Management Software	Bundled software for sever Management for hardware Monitoring, logs, configuration data
21	Warranty	3 years comprehensive on site



**ITEM NO. 13: RISC RACK SERVER (MID RANGE FOUR CPU)**

1	Make	SUN
2	Model	SUN- Series 5120
3	Processor	RISC Server, 2 core 2 CPU - 1.9 GHz, 64 bit CPU), Level 1 on die cache -32 KB, Level 2 on die cache - 1.9 MB, Level 3 on die cache 36 MB, 400 MHz System Bus. Slots for additional processors.
4	Chipset	OEM chipset
5	Memory	4 GB (2x 2GB) DDR2 @533 MHz SDRAM
6	Motherboard	Each system board should contain minimum 8 DIMM sockets, minimum 2 buses and 2 slots to support PCI X integrated Gigabit Ethernet, integrated Ultra SCSI 320 controller, server management software, graphics, IDE, serial port, USB ports.
8	Hard Disk	2 x 146 GB, 15 k rpm or above, Ultra 320 SCSI with HOT Swappable Hard Drive
9	RAID Controller	SCSI RAID Controller providing 0 to 5 RAID protection
12	Optical Drive	DVD drive
13	Ethernet Interface	Dual onboard 10/100/1000 MBPS auto sensing Ethernet interface with Wake on LAN support
15	Ports	Min 2 USB Ports
16	Cabinet	RACK optimized
19	Power Supply & Fan	HOT SWAP Dual Redundant Power supply & Fan
20	Power Management	APM (advanced Power Management) feature
21	Manageability	Remote Management feature
22	Server Management Software	Bundled software for sever Management for hardware Monitoring, logs, configuration data
24	Warranty	3 years comprehensive on site
25	Height/Thickness	5U or less



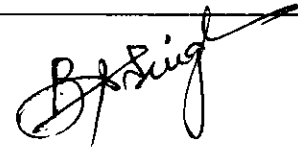
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**ITEM NO. 15: RISC RACK SERVER (HIGH END EIGHT CPU)**

1	Make	SUN
2	Model	SUN- Series 5220
3	Processor	RISC Server, 4 core 2 CPU - 1.65 GHz, 64 bit CPU), Level 1 (per core) cache -32 KB, Level 2 (4 cores) cache – 3.8 MB, Level 3 (4 cores) cache 2x 36 MB, 400 MHz System Bus. Slots for additional processors.
4	Chipset	OEM chipset
5	Memory	16 GB (8x 2GB) DDR2 @533 SDRAM
6	Motherboard	Each system board should contain minimum 8 DIMM sockets, minimum and slots to support integrated Gigabit Ethernet, integrated Ultra SCSI 320 controller, server management software, graphics, IDE, serial port, USB ports.
8	Hard Disk	3 x 146 GB, 15 k rpm or above, Ultra 320 SCSI with HOT Swappable Hard Drive
9	RAID Controller	SCSI RAID Controller providing 0 to 5 RAID protection
12	Optical Drive	Internal Dual side DVD drive
13	Ethernet Interface	Dual onboard 10/100/1000 MBPS auto sensing Ethernet interface with Wake on LAN support
15	Ports	min 3 USB Ports
16	Cabinet	RACK optimized
19	Power Supply & Fan	HOT SWAP Dual Redundant Power supply & Fan
20	Power Management	APM (advanced Power Management) feature
21	Manageability	Remote Management feature
22	Server Management Software	Bundled software for sever Management for hardware Monitoring, logs, configuration data
24	Warranty	3 years comprehensive on site
25	Height/Thickness	4 U or less

**OPTIONAL / ADDITIONAL ITEMS FOR ENTRY LEVEL, MID LEVEL AND HIGH END SERVERS**

	LTO	LTO 400/800 GB
1	Back Up device	Liner Recorder 20/40 GB CTD (with 2 Media)
2	Back Up device	SLR 75 and 100 for window and Linux
2	Back Up device	DAT 36/72GB for window and Linux
3	Additional Memory	2, 4 GB RAM FBDIMM @ 667 MHz
4	15" TFT Monitor	Resolution 1024 x 768 @ min. 60 Hz with MPR II / TCO, Windows Compliant, Energy Star Ver. 4.0. Same Make as PC.
5	17" TFT Monitor	Resolution 1280 X 1024 @ min. 60 Hz with MPR II / TCO, Windows Compliant, Energy Star Ver. 4.0. Same Make as PC.
6	19" TFT	Resolution 1280 X 1024 @ min. 60 Hz with MPR II / TCO, Windows Compliant, Energy Star Ver. 4.0. Same Make as PC.
7	19" Wide TFT	Resolution 1440 X 900 @ min. 60 Hz with MPR II / TCO, Windows Compliant, Energy Star Ver. 4.0. Same Make as PC.
8	Keyboard	Heavy duty membrane having key life of 20 million strokes or more
9	Mouse	PS2 / USB type optical scroll mouse.
10	Additional NIC	Gigabit Ethernet Port
11	Disk Drive (80 GB)	Additional 80 GB Serial ATA 150 Mbps , 7200 RPM disks drive.
12	Disk Drive (73GB)	Additional 73 GB formatted capacity, Ultra 160 SCSI, 10,000 RPM disks drives capable of 160 MB/Sec or more data transfer rate.
13	Disk Drive (73GB)	Additional 73 GB formatted capacity, Ultra 320 SCSI, 10,000 RPM or higher disks drives capable of 160 MB/Sec or more data transfer rate 72 GB SAS 10k RPM.
14	Disk Controller	Ultra 160 SCSI controller having minimum of 320 MB/sec throughput. Should support RAID Mirroring
17	RAID Controller	Ultra 160 RAID controller having 160 MB/sec throughput with minimum 128 MB Cache with Battery Backup. The RAID controller must support RAID level 0,1 and 5 SAS RAID Controller
18	RAID Controller	Ultra 320 RAID controller having 320 MB/sec throughput with minimum 128 MB Cache with Battery Backup. The RAID controller must support RAID level 0,1 and 5 SAS RAID Controller
19	Additional HBA	Single/ Dual 4GB FC HBA
20	KVM Switch	8 port or better
21	Rack	42 U with Side Panel Kit, Power Distribution Units, Power Cables,
22	Fibre Optic Card	



**ITEM NO. 16: TWO-CPU BLADE SERVER (INTEL BASED)**

S.No.	Items	Minimum Required Specs of each Blade
1	Make	Dell
2	Model	Dell- Power Edge 1995
3	Processor	Two x Quad Core Intel Xeon 5110 @ (2.33 GHz, 1333 FSB, 12 MB L2 Cache)
4	Chipset	Intel 5000P Server Chipset
5	Memory	8 GB PC2-5300 Fully Buffered DIMMs (DDR2-667) Maximum support upto 32 GB, 8 DIMM Slots,
6	Ethernet Controller	Two Gigabit Ethernet
7	Expansion Slots	2 x PCI based Express Slots
8	Graphics	Integrated graphics controller with minimum 16MB or more video memory
9	Internal Storage Hard Disk Drives RAID Controller	Upto 2 Small Form Factor 10 k RPM SAS 2* 146 GB Hot Plug SFF SAS disks Should have support for RAID 0,1
10	Redundant Power Supply	Racked based or Enclosure based
11	OS Support Management	Microsoft Window Server 2003, Red Hat Linux, SUSE Linux
12	Remote Management	Should have support for Text as well as Graphical Remote Console ; Virtual Floppy and Virtual CD-ROM or equivalent; Virtual Power Button Control; Dedicated LAN Connectivity; 128-bit Secure Sockets Layer (SSL) and Secure Shell (SSH) Security; Integrated Management and event logging, Support for at-least 10 user accounts with customizable access
13	Warranty	Three years comprehensive onsite

**B: BLADE ENCLOSURE : M SERIES**

1.	Blade Enclosure specs	The blade chassis should support at least 10 or more blade servers simultaneously
2.		Should be designed to accommodate Intel CPU based blade servers with dual hot plug hard disk drives, hot plug fans, hot plug power supplies and redundant interconnect components. Rack Mountable, Should fit into maximum 10U or less rack space,
3.		The power subsystem should provide redundant power modes (minimum N+1 configuration), it should be single phase and minimum Two PDUs with IEC 309 socket should be provided for AC input supply connectivity.
4.		Should support Hot Pluggable & Redundant Management Modules
5.		Should support simultaneous remote console access for all the servers installed in the enclosure

6.		Enclosure should be able to completely support the current generation of blades as well as the future generation blades from Intel in terms of cooling and power requirements etc.
7.		10 G Protocol compliant
8.	Warranty	3 years comprehensive onsite

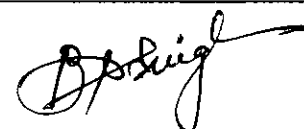
**OPTIONAL / ADDITIONAL FOR BLADE SERVERS**

1	HBA	Dual Ported 4Gbps FC-HBA
2	Memory	2/4/8GB PC2-5300 Fully Buffered DIMMs (DDR2-667)
3	NIC interface	Gigabit Network Adapters Card (NIC)
4	Ethernet switch	2x 1Gbps Ethernet switch
5	FC Switch	2x 4Gbps FC SAN switch



**ITEM NO.17: BUSINESS INKJET PRINTER A4**

1	Make	HP
2	Model	HP-Officejet Pro K5300
3	Print Speed	25 ppm or more for both mono and colour (Draft mode) in A4
4	Resolution	1200 X 1200 DPI in best black mode
5	Memory	8 MB
6	Paper Type	Plain, Bond, Transparencies, Labels, Envelopes
7	Paper Feed Tray	Horizontal
8	Paper Size	A4, Legal, Letter, Executive, custom sizes
9	Paper Capacity	150 or more sheets on standard input tray,
10	Interface	USB 2.0 full speed with cable
11	Duty Cycle	5000 pages per month
12	OS Support	2000, XP
13	Compatibility	PCL or equivalent
14	Ink Technology & Cartridges	Thermal Inkjet, 4 separate ink Cartridges( 1 each black, cyan, magenta, yellow)
15	Warranty	Three years on site



**ITEM NO.18: PERSONAL LASER PRINTER A4**

1	Make	<b>Samsung, HP</b>
2	Model	<b>Samsung ML 1610/ML1640, HP-laserjet 1007</b>
3	Print Speed	14 ppm or above on A4
4	Resolution	600 X 600 DPI
5	Memory	2 MB or above
6	Paper Type	Plain, Bond, Transparencies, Labels, Envelopes
7	Paper Feed Tray	Horizontal
8	Paper Size	A4, Legal, Letter, Executive, custom sizes
9	Paper Capacity	150 sheets or above on standard input tray , 50 Sheet or above on Output Tray
10	Interface	USB 2.0 compatible with cable
11	Duty Cycle	4000 pages per month
12	OS Support	Linux, Windows 2000, XP above
13	Compatibility	PCL/SPL
14	Warranty	Three years on site





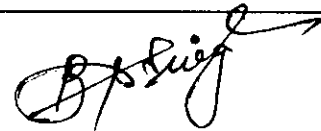
**ITEM NO.19: PERSONAL LASER COLOUR PRINTER A4**

1	Make	Samsung
2	Model	Samsung CLP-610 ND
3	Print Speed	B & W 16 ppm or above on A4 Colour 08 ppm or above on A4
4	Resolution	Max. B & W dpi 600 X 600 Max. Colour dpi 600 X 600
5	Memory	64 MB or above
6	Paper Type	Plain, Bond, Transparencies, Labels, Envelopes
7	Paper Feed Tray	Horizontal
8	Paper Size	A4, Legal, Letter, Executive, custom sizes
9	Paper Capacity	200 sheets or above on standard input tray , 150 Sheet or above on Output Tray
10	Interface	USB 2.0 compatible with cable, Ethernet
11	Duty Cycle	35000 pages per month
12	OS Support	Linux, Windows 2000, XP above
13	Compatibility	PCL/SPL
14	Warranty	Three years on site



**ITEM NO.20: PERSONAL LASER PRINTER A<sub>3</sub>**

1	Make	HP
2	Model	HP laser jet 5200
3	Print Speed	35 ppm or above on A <sub>4</sub> and 18.5 ppm or above for A <sub>3</sub>
4	Resolution	1200 X 1200 DPI
5	Memory	48 MB or above
6	Paper Type	Plain, Bond, Transparencies, Labels, Envelopes
7	Paper Feed Tray	Horizontal
8	Paper Size	A3,A4, Legal, Letter, Executive, custom sizes
9	Paper Capacity	Paper trays min two with capacity of 250 sheets or above, 150 Sheet or above on Output Tray
10	Interface	High Speed USB 2.0 with parallel port and one EIO slot.
11	Duty Cycle	65000 or above pages per month
12	OS Support	Linux, Windows 2000, XP above, Linux
13	Compatibility	Postscript, PCL5, PCL6
14	Warranty	Three years on site



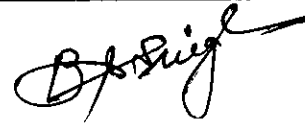
**ITEM NO.21: MID RANGE MONO LASER A4**

1	Make	Samsung
2	Model	Samsung-ML 2570/ML-2850D ND
3	Print Speed	23 ppm or above on A4
4	Resolution	600 X 600 DPI
5	Memory	32 MB or above
6	Paper Type	Plain, Bond, Transparencies, Labels, Envelopes
7	Paper Feed Tray	Horizontal
8	Paper Size	A4, Legal, Letter, Executive, custom sizes
9	Paper Capacity	250 sheets or above on standard input tray, 100 Sheet or above on Output Tray
10	Interface	USB 2.0 compatible with cable
11	Duty Cycle	10000 pages or better per month
12	Compatibility	PCL
13	OS Support	Windows 2000, XP, Linux
15	Warranty	Three years on site



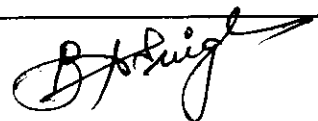
**ITEM NO.22: ENTRY LEVEL NETWORK LASER PRINTER (WORK GROUP 4 TO 5) A4**

1	Make	Samsung
2	Model	Samsung-ML-2571N
3	Print Speed	23 ppm or above on A4
4	Resolution	600 X 600 DPI
5	Memory	32 MB or above
6	Paper Type	Plain, Bond, Transparencies, Labels, Envelopes
7	Paper Feed Tray	Horizontal
8	Paper Size	A4, Legal, Letter, Executive, custom sizes
9	Paper Capacity	250 sheets or above on standard input tray, 100 Sheet or above on Output Tray
10	Interface	High Speed USB 2.0 with cable, 10/100 Mbps Tx Network Card
11	Duty Cycle	10000 pages or better per month
12	Compatibility	PCL
13	OS Support	Windows 2000, XP, Linux
15	Warranty	Three years on site



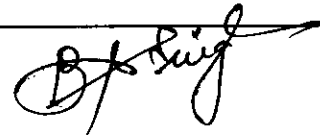
**ITEM NO.23: WORKGROUP (MORE THAN 20) NETWORK & DUPLEX MONO LASER PRINTER A4**

1	Make	Samsung
2	Model	Samsung ML-4050N+D
3	Print Speed	33 ppm or above on A4
4	Duplex printing	Automatic
4	Resolution	1200 DPI
5	Memory	32 MB or above
6	Paper Type	Plain, Bond, Transparencies, Labels, Envelopes
7	Paper Feed Tray	Horizontal
8	Paper Size	A4, Legal, Letter, Executive, custom sizes
9	Paper Capacity	500 sheets or above on standard input tray or above, 250 sheets Output Tray
10	Interface	High Speed USB 2.0 with cable, inbuilt network
11	Duty Cycle	50000 pages per month or above
12	Compatibility	PCL 6, PS support
13	OS Support	Windows 2000, XP, Linux
15	Warranty	Three years on site



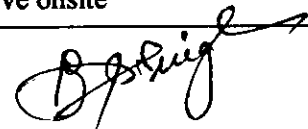
**ITEM NO.24: ENTRY LEVEL MULTIFUNCTIONAL & MULTITASKING LASER PRINTER FLAT BED A4**

1	Make	Samsung, HP
2	Model	Samsung SCX-4720 FN/SCX-4828FN, HP-laserjet 1522 NF
3	Print / Copy Speed	20 pages per minute A4 or more
4	Resolution	600 X 600 DPI
5	Memory	64MB or above
6	Paper Type	Plain, Bond, Transparencies, Labels, Envelopes
7	Paper Size	A4, Legal, Letter, Executive, custom sizes
8	Paper Capacity	250 sheets on standard input tray, 100 Sheet on Output Tray, 50pages ADF
9	Interface	High Speed USB 2.0 with cable, inbuilt network
10	Duty Cycle	10000 pages per month or more
11	OS Support	Windows 2000,XP
12	Compatibility	PCL
13	Fax Speed	33.6 Kpbs
14	Warranty	Three years on site



**ITEM NO.25: ENTRY LEVEL COLOR MULTIFUNCTION & MULTITASKING LASER PRINTER A4**

1	Make	Samsung
2	Model	Samsung CLX-3160 FN/Clx-3175FN
3	Speed:	
3.1	Printing	16 Pages or more per minute in black, 4 Pages or more per minute in color
3.2	Fax speed	3 Seconds per page or above
3.3	Copier	16 Copies per minute or more in black, 4 Copies or more per minute in color or above
4	Scanner Resolution	600*1200 dpi (optical)
5	ADF Capacity	50 Sheets or more
6	Fax Memory	250 Pages or 4 mb
7	Input Capacity	150 sheets or more
8	Memory	96 Mb or more
9	Duty Cycle	20,000 pages per month or more
10	Interface	High speed USB 2.0, Internal 10/100 mbps Ethernet network card
11	Emulation	PCL/SPL or equivalent
12	OS Compatibility	Windows, 2000, XP
13	Warranty	3 years comprehensive onsite



**ITEM NO.26: 136 COLUMNS DOT MATRIX PRINTERS**

1	Make	Epson, Tvse, WeP
2	Model	Epson -LQ 1150 II, Tvse-MSP 355, WeP-HQ 1070 Dx
3	Print head	24 pin
4	Print Modes	Draft and LQ
5	Print width	136 columns minimum
6	Print Speed	300 cps @ 10 cpi in high speed draft mode 250 cps @ 10 cpi in draft mode 80 cps @ 10 cpi in LQ mode
7	Print Method	Impact dot matrix
8	Paper feed	Both Friction and Tractor with push or pull facility.
9	Paper Type	Cut sheet & Fan-Fold continuous stationary
10	Print head life	200 million characters or more or equivalent number of dots/pin
11	Ribbon life	Minimum 3 million characters
12	MTBF	6000 POH
13	Data buffer	Minimum 64 KB
14	Print attributes	Bold, Italics, underline, wide-font, super and sub-scripting
15	Emulation	EPSON / IBM
16	Interface	Parallel & USB
17	Warranty	Three years on site, print head cover for first year

**ADDITIONAL ITEMS FOR PRINTER**

1	Print Head	OEM Make
2	Ribbon	OEM Make
3	Ribbon Cartridge	OEM Make

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