

RC - 2010-11		
S.No.	Item Code	Item Name
1	NB01L	Notebook - General
2	NB02L	Notebook - Lightweight Type-I
3	NB03L	Notebook - Engineering
4	NB04L	Netbook - Lightweight Type-II
5	PC01L	PC - General
6	PC02L	Engineering PC
7	PC03L	PC - Thinclient - Fanless
8	WS01L	Graphics Workstation - Type-I
9	WS02L	Graphics Workstation - Type-II
10	LJ01L	Laserjet Printer - A4 Mono Personal
11	LJ02L	Laserjet Printer - A4 Mono Low End
12	LJ03L	Laserjet Printer - A4 Mono General
13	LJ04L	Laserjet Printer - A3 Mono
14	LJ05L	Laserjet Printer - A4 Color Low End
15	LJ06L	Laserjet Printer - A4 Color General
16	LJ07L	Laserjet Printer - A3 Color
17	DJ01L	Deskjet Color Printer
18	DM01L	Dot Matrix Printer
19	DM02L	Dot Matrix Printer - Heavy Duty
20	LM01L	Line Matrix Printer
21	MF01L	MFS - A4 Mono
22	MF02L	MFS - A4 Color
23	PL01L	Plotter - A0 Low End
24	PL02L	Plotter - MFS
25	PL03L	Plotter - A0 Low End (Inkjet)
26	SC01L	Scanner - A4 Low End
27	SC02L	Scanner - A4 Color
28	SC03L	Scanner - A3 Color
29	SC04L	Scanner - A4 Color High End

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S.No.	Item Code	Item Name
30	SC05L	Scanner - A3 Color High End
31	UP01L	Small UPS
32	UP02L	2KVA UPS
33	UP03H	5KVA UPS
34	UP04H	10KVA Online UPS
35	UP05H	2 x 10 KVA Online UPS
36	UP06H	20KVA Online UPS
37	UP07H	2x20KVA Online UPS
38	UP08H	40 KVA Online UPS
39	UP09H	2x40 KVA Online UPS
40	ST01H	SAN Storage
41	ST02H	NAS Storage
42	SR01H	Server 2-Way
43	SR02H	Blade Server
44	SR03H	RISC / EPIC Server
45	SR04H	Fault Tolerant Server
46	NS01H	Layer 2 Switch - 24 Port
47	NS02H	Layer 2 Switch - 48 Port
48	NS03H	Layer 3 Switch (Type -I)
49	NS04H	Layer 3 Switch (Type -II)
50	NS07H	Wireless Access Point
51	NS08H	Network Security Device
52	NS09H	Router - Type I
53	NS10H	Router - Type II
54	NS11H	Wireless Access Controller
55	NS12H	Server Load Balancer
56	NS13H	Link Load Balancer
57	MS01L	Print Server
58	MS02L	42U Rack
59	MS03L	21U Rack

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S.No.	Item Code	Item Name
60	MS04L	15U Rack
61	MS05H	Blade Server Chassis
62	MS06H	Tape Library
	MS07L-13L	Miscellaneous
63	MS07L	DVD Writer
64	MS08H	Ultrium Autoloader
65	MS09L	KVM Switch
66	MS10L	UTP Cable Tester
67	MS11L	Fibre Tester
68	MS12L	Webcam
69	MS13L	VoIP USB Phone
	SW01H-SW18L	
70	SW01H	Red Hat Enterprise Linux Advance Platform v5 or latest with 5 years subscription and support (for updates & upgrades, telephonic / web support) from the Principal OEM (with media)
71	SW02H	Red Hat Enterprise Linux Server v5 or latest with 5 years subscription and support (for updates & upgrades, telephonic / web support) from the Principal OEM (with media)
72	SW03H	Microsoft Windows Server Enterprise Edition Lic/SA (Latest Version) with 2 years subscription and support (with media)
73	SW04L	Microsoft Windows Server CAL Lic/SA (Latest Version) with 2 years subscription and support
74	SW05H	Microsoft System Centre Configuration Manager Server Lic/SA (Latest Version) with 2 years subscription and support (with media)
75	SW06L	Microsoft System Centre Configuration Manager Client Management Lic/SA (Latest Version) with 2 years subscription and support

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S.No.	Item Code	Item Name
76	SW07H	Microsoft System Centre Configuration Manager Server Lic/SA (Latest Version) with 2 years subscription and support (with media)
77	SW08H	Microsoft Sharepoint Server Lic/SA with necessary Database Enterprise Edition (Processor License) (Latest Version) with 2 years subscription and support (with media)
78	SW09H	Microsoft Sharepoint Server Lic/SA with necessary Database Standard Edition (Processor License) (Latest Version) with 2 years subscription and support (with media)
79	SW10L	Microsoft SharePoint Standard CAL Lic/SA (Latest Version) with 2 years subscription and support
80	SW11L	Microsoft Sharepoint Enterprise CAL Lic/SA (Latest Version) with 2 years subscription and support
81	SW12L	Toad for Oracle (with media)
82	SW13L	Adobe Acrobat 9 Pro or Latest (with media)
83	SW14L	Adobe Acrobat 9 Pro Extended or Latest (with media)
84	SW15L	Adobe Photoshop CS5 (with media)
85	SW16L	Adobe Photoshop CS5 Extended (with media)
86	SW17L	Adobe Dreamweaver CS5 (with media)
87	SW18L	Visual Studio Professional (Latest Version) (with media)
88	OP01H	Network Management Solution
	Add-Ons	
89	NB01L (A1)	Notebook - General (Higher RAM)
90	NB02L (A1)	Notebook - Lightweight Type-I (Higher RAM)
91	NB03L (A1)	Notebook -Engineering (Higher RAM)
92	PC01L (A1)	PC - General (Higher RAM)

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S.No.	Item Code	Item Name
93	PC02L (A1)	Engineering PC (Higher RAM)
94	WS01L (A1)	Graphics Workstation - Type I (Higher RAM)
95	WS02L (A1)	Graphics Workstation - Type II (Higher RAM)
96	WS02L (A2)	Graphics Workstation - Type II (Higher HDD)
97	SR01H (A1)	Server - 2 Way Rack (Higher HDD)
98	SR01H (A2)	Server - 2 Way Rack (Higher RAM)
99	SR02H (A1)	Blade Server (Higher RAM)
100	SR04H (A1)	Fault Tolerant Server (Higher HDD)
101	SR04H (A2)	Fault Tolerant Server (Higher RAM)
102	MS02L (A1)	42U Rack (Glass Door)
103	MS06H (A1)	Tape Library (With Fibre Ports)
104	PC01L (A2)	PC (Higher Size TFT) 19" OEM make in place of 17" OEM make
105	SFP01	1000Mbps SFP based SX Module

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S.No.	Item Code	Item Name
106	SFP02	1000Mbps SFP based LX Module
107	SFP03	1000Mbps Ethernet Module for Network Switches

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Item Name		Notebook - General	
Item Code		NB01L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Processor	Intel® Core™ i3 Processor 370M (2.4GHz) or higher	
3	Cache	3MB L3 cache or higher	
4	Chipset	Intel mobile HM55 series chipset or later	
5	Graphics	Integrated Intel HD Graphics with min. 256MB VRAM	
6	Memory	3GB DDR3 1066MHz RAM expandable up to 6GB with 2 DIMM Slots	
7	HDD	320 GB SATA or higher with Hard Disk protection system	
8	Optical Drive	Integrated 8x DVD RW or higher	
9	Screen	14"/14.1" WXGA color LED display, anti glare	
10	Keys	Spill-proof keyboard with full size keys	
11	Pointer Device	Touchpad and / or Track point	
12	Mouse	OEM USB Optical Travel Mouse	
13	Audio	Integrated High definition audio with integrated speakers and volume control	
14	Ethernet	Integrated 10/100/1000 Mbps port	
15	Wireless	Integrated 802.11a/g/N Wireless LAN, Blue Tooth (2.1)	
16	Ports	Minimum 3 USB (Ver. 2.0) including 1eSATA / USB combo, VGA, Speaker, Microphone	

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Item Name		Notebook - General	
Item Code		NB01L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
17	Slots	Express Card Slot, Multi-Card Reader	
18	Battery	Minimum 6-cell Lithium-ion rechargeable battery capable of providing 3.5 hours or more backup in standard business environment, ACPI Compliant.	
19	Power Supply	OEM AC Adaptor suitable for 230V supply	
20	Preloaded Management Software	Have preloaded client of management software having following features: 1. Remote software deployment 2. Remote patch deployment/management 3. Asset Tracking, Inventory Management (Software & Hardware) 4. Data and settings Migration tool	
21	Software	Windows 7 Professional Edition with latest service pack.Restore / Recovery CD & with OS media CD with each PC (in absence of OS Media CD OEM pack of OS to be supplied), a software to provide data recovery to restore user data, settings, applications and Operating System in the event of a software crash or virus infection. The latest system drivers should be available on OEM's website for the entire lease period.	
22	Webcam	Integrated 2MP webcam with inbuilt microphone	
23	Carry Bag	Carry Bag From OEM	
24	Weight	2.5 KG or less (inclusive of battery)	
25	Certification	OS Certification from Microsoft	

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Item Name		Notebook - General	
Item Code		NB01L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
		For OEM : ISO 9001 (Latest version)	
		ERTL / FCC - EMC class B	
		Latest version of IEC-60950-1 / IS 13252 / UL-60950	
		ACPI (Latest Version) compliant	
		RoHS compliant	
		EPEAT Gold compliant	
		Energy Star 5.0 compliant	
26	Warranty	OEM warranty including battery (labour,parts,on-site) for the entire contract period	

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Item Name		Notebook - Lightweight Type-I	
Item Code		NB02L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
1	Make & Model		
2	Processor	Intel® Core™ i7 Processor 640UM (1.2GHz) or higher	
3	Cache	4MB L3 cache or higher	
4	Chipset	Intel mobile QS-57/QM-57 series chipset or later	
5	Graphics	Integrated Intel HD Graphics with min. 256MB VRAM	
6	Memory	4GB DDR3 1066MHz RAM expandable up to 8GB with 2 DIMM Slots	
7	HDD	320 GB SATA or higher with Hard Disk protection system	
8	Optical Drive	Integrated 8x DVD RW or higher	
9	Screen	12"/12.1" WXGA color LED display, anti glare	
10	Keys	Spill-proof keyboard with full size keys	
11	Pointer Device	Touchpad and / or Track point	
12	Mouse	OEM USB Optical Travel Mouse	
13	Audio	Integrated High definition audio with integrated speakers and volume control	
14	Ethernet	Integrated 10/100/1000 Mbps port	
15	Wireless	Integrated 802.11a/g/N Wireless LAN, Blue Tooth (2.1)	
16	Ports	Minimum 3 USB (Ver. 2.0) including 1eSATA / USB combo, VGA, Speaker, Microphone	

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Item Name		Notebook - Lightweight Type-I	
Item Code		NB02L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
17	Slots	Express Card Slot, Multi-Card Reader	
18	Battery	Minimum 6-cell Lithium-ion rechargeable battery capable of providing 3.5 hours or more backup in standard business environment, ACPI Compliant.	
19	Power Supply	OEM AC Adaptor suitable for 230V supply	
20	Preloaded Management Software	Have preloaded client of management software having following features: 1. Remote software deployment 2. Remote patch deployment/management 3. Asset Tracking, Inventory Management (Software & Hardware) 4. Data and settings Migration tool 5. Out of band management supporting remote: Asset Tracking, Inventory Management, Power Control, Remote Diagnosis.	
21	Software	Windows 7 Professional Edition with latest service pack.Restore / Recovery CD & with OS media CD with each PC (in absence of OS Media CD OEM pack of OS to be supplied), a software to provide data recovery to restore user data, settings, applications and Operating System in the event of a software crash or virus infection. The latest system drivers should be available on OEM's website for the entire lease period.	
22	Biometric Authentication	Finger Print Reader	
23	Carry Bag	Carry Bag From OEM	
24	Weight	1.5 KG or less (inclusive of battery)	
25	Certification	OS Certification from Microsoft	

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Item Name		Notebook - Lightweight Type-I	
Item Code		NB02L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
		For OEM : ISO 9001 (Latest version)	
		ERTL / FCC - EMC class B	
		Latest version of IEC-60950-1 / IS 13252 / UL-60950	
		ACPI (Latest Vesion) compliant	
		RoHS compliant	
		EPEAT Gold compliant	
		Energy Star 5.0 compliant	
26	Warranty	OEM warranty including battery (labour,parts,on-site) for the entire contract period	

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Item Name		Notebook - Engineering	
Item Code		NB03L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
1	Make & Model		
2	Processor	Intel® Core™ i7 Processor 620M (2.66GHz) or higher	
3	Cache	4 MB L3 cache or higher	
4	Chipset	Intel PM55 chipset or later	
5	Graphics	ATI Mobility or NVIDIA with 512 MB memory or higher	
6	Memory	8GB DDR3 1066MHz RAM expandable up to 16GB with 2 DIMM Slots	
7	HDD	320GB SATA or higher with Hard Disk protection system	
8	Optical Drive	Integrated 8x DVD RW or higher	
9	Screen	15.4"/15.6" WSXGA color LED display, anti glare	
10	Keyboard	Spill-proof keyboard with full size keys	
11	Pointer Device	Touchpad and / or Track point	
12	Mouse	OEM USB Optical Travel Mouse	
13	Audio	Integrated High definition audio with integrated speakers and volume control	
14	Ethernet	100/1000 Mbps ethernet	
15	Wireless	Integrated 802.11a/g/N Wireless LAN, Blue Tooth (2.1)	
16	Ports	Minimum 3 USB (Ver. 2.0) including 1eSATA / USB combo, VGA, Speaker, Microphone	

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Item Name		Notebook - Engineering	
Item Code		NB03L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
17	Slots	Express Card Slot, Multi-Card Reader	
18	Battery	Minimum 6-cell Lithium-ion rechargeable battery capable of providing 3.5 hours or more backup in standard business environment, ACPI Compliant.	
19	Power Supply	OEM 90W AC Adaptor suitable for 230V supply	
20	Preloaded Management Software	Have preloaded client of management software having following features: 1. Remote software deployment 2. Remote patch deployment/management 3. Asset Tracking, Inventory Management (Software & Hardware) 4. Data and settings Migration tool 5. Out of band management supporting remote: Asset Tracking, Inventory Management, Power Control, Remote Diagnosis.	
21	Software	Windows 7 Professional 64 bit (with roll back to 32 bit) with latest service pack , Restore / Recovery CD & with OS media CD with each PC (in absence of OS Media CD OEM pack of OS to be supplied), a software to provide data recovery to restore user data, settings, applications and Operating System in the event of a software crash or virus infection. The latest system drivers should be available on OEM's website for the entire lease period	
22	Carry Bag	Carry Bag From OEM	
23	Certification	OS Certification from Microsoft	

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Item Name		Notebook - Engineering	
Item Code		NB03L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
		Certified for UGS products	
		Certified for autodesk products	
		Certified for 3D Modelling Softwares like PDMS	
		For OEM : ISO 9001 (Latest version)	
		ERTL / FCC - EMC class B	
		Latest version of IEC-60950-1 / IS 13252 / UL-60950	
		ACPI (Latest Vesion) compliant	
		RoHS compliant	
		EPEAT Gold compliant	
		Energy Star 5.0 compliant	
24	Warranty	OEM warranty including battery (labour,parts,on-site) for the entire contract period	

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Item Name		Netbook - Lightweight Type-II (Netbook)	
Item Code		NB04L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Processor	Intel Atom Processor at 1.6GHz or higher	
3	Cache	512KB or higher	
4	Chipset	Intel NM10 or higher Intel Chipset	
5	Graphics	Integrated Intel GMA 3150 or higher	
6	Memory	2 GB DDR3 RAM	
7	HDD	160 GB SATA or higher with Hard Disk protection system	
8	Optical Drive	USB based 8x DVD RW or higher	
9	Screen	Max. 10/10.1" XGA color LED display	
10	Keyboard	Spill-proof Fully functional keyboard	
11	Pointer Device	Touchpad and / or Track point	
12	Mouse	OEM USB Optical Travel Mouse	
13	Audio	Integrated AC97 audio with integrated speakers and volume control	
14	Ethernet	Integrated 10/100 Mbps port	
15	Wireless	Integrated 802.11 b/g Wireless LAN, Blue Tooth (2.0)	

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Item Name		Netbook - Lightweight Type-II (Netbook)	
Item Code		NB04L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
16	Ports	Minimum 3 USB (Ver. 2.0) including 1eSATA / USB combo, VGA, Speaker, Microphone	
17	Slots	Express Card Slot, Multi-Card Reader	
18	Battery	Minimum 4 hours or more backup in standard business environment, ACPI Compliant.	
19	Power Supply	OEM 90W AC Adaptor suitable for 230V supply	
20	Preloaded Management Software	Have preloaded client of management software having following features: 1. Remote software deployment 2. Remote patch deployment/management 3. Asset Tracking, Inventory Management (Software & Hardware) 4. Data and settings Migration tool	
21	Software	Windows 7 Home with latest service pack, Restore / Recovery CD & with OS media CD with each PC (in absence of OS Media CD OEM pack of OS to be supplied), a software to provide data recovery to restore user data, settings, applications and Operations	
22	Carry Bag	Carry Bag From OEM	
23	Weight	1.3 KG or less (inclusive of battery)	
24	Certification	OS Certification from Microsoft	
		For OEM : ISO 9001 (Latest version)	
		ERTL / FCC - EMC class B	

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Item Name		Netbook - Lightweight Type-II (Netbook)	
Item Code		NB04L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
		Latest version of IEC-60950-1 / IS 13252 / UL-60950	
		ACPI (Latest Vesion) compliant	
		RoHS compliant	
		Energy Star 5.0 compliant	
25	Warranty	OEM warranty including battery (labour,parts,on-site) for the entire contract period	

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Item Name		PC - General	
Item Code		PC01L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Processor	Core-i5-650 (3.2GHz, 4MB L3 cache) or higher	
3	Motherboard	Motherboard and FRU parts should be of OEM's make & part no.	
4	Chipset	Intel Q57 or higher Intel Chipset	
5	RAM	4GB dual channel DDR3 1066 MHz expandable to 8 GB	
6	HDD	500 GB SATA or higher 7200 rpm with Pre Failure Alert	
7	Optical Drive	16X or more DVD+/-RW SATA	
8	Monitor (Asset Controlled)	17" TFT (OEM make) with Aspect ratio 5:4 and min. resolution of 1280*1024 TCO 05 compliant	
9	Graphics	Intel GMA HD integrated graphics	
10	Keyboard	Minimum 104 keys (Same make as PC)	
11	Mouse	2/3 Button Optical Scroll Mouse (Same make as PC)	
12	Audio	Integrated Intel High Definition Audio, AC'97/20-bit audio with internal speakers	
13	Ethernet	Integrated (on-board) 10/100/1000Mbps RJ45 port with WOL, PXE & ASF (Alert Standard Format) 2.0 OS independent software to monitor & analyse network connection	
14	PCI Slots	Minimum 2 PCI-E slots	

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Item Name		PC - General	
Item Code		PC01L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
15	Ports	Minimum 1 Serial, 6 USB (Ver 2.0), VGA, Speaker, Microphone, Headphone, 1 parallel port (in case of motherboard not supporting parallel port then separate card to be installed in the cabinet)	
16	Software	Windows 7 Professional 64 bit (with roll back to 32 bit) with latest service pack, Restore / Recovery CD & with OS media CD with each PC (in absence of OS Media CD OEM pack of OS to be supplied), a software to provide data recovery to restore user data, settings, applications and Operating System in the event of a software crash or virus infection. The latest system drivers should be available on OEM's website for the entire lease period	
17	Form Factor	Micro ATX Desktop	
18	Diagnostic Tool / Software	OEM's Diagnostic tool for hardware diagnostics	
19	Preloaded Management Software	Have preloaded client of management software having following features: 1. Remote software deployment 2. Remote patch deployment/management 3. Asset Tracking, Inventory Management (Software & Hardware) 4. Data and settings Migration tool 5. Out of band management supporting remote: Asset Tracking, Inventory Management, Power Control, Remote Diagnosis	

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Item Name		PC - General	
Item Code		PC01L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
20	Security	Removable media boot control, Serial, Parallel & USB Interface Control, Power-On Password, Setup Password, should give alert on management console and desktop on tampering the system. Should come with integrated Trusted Platform Module (TPM)1.2 Security Chip.	
21	Certifications	OS Certification from Microsoft	
		For OEM : ISO 9001 (Latest version)	
		ERTL / FCC - EMC class B	
		Latest version of IEC-60950-1 / IS 13252 / UL-60950	
		ACPI (Latest Version) compliant	
		RoHS compliant	
		Energy Star 5.0 compliant	
22	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		Engineering - PC	
Item Code		PC02L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Processor	Core-i5-670 (3.46GHz, 4MB L3 cache) or higher	
3	Chipset	Intel Q57 or higher Intel Chipset	
4	RAM	6GB dual channel DDR3 SDRAM @ 1066 MHz expandable to 12 GB	
5	HDD	320 GB SATA or higher 7200 rpm with Pre Failure Alert	
6	Optical Drive	16X or more DVD+/-RW SATA	
7	Graphics Card	Professional 3D graphic card (NVIDIA or ATI Firepro) 1 GB	
8	Monitor	19" TFT (OEM make) with Aspect ratio 5:4 and min. resolution of 1280*1024 TCO 05 compliant	
9	Keyboard	Minimum 104 keys (Same make as PC)	
10	Mouse	2/3 Button Optical Scroll Mouse	
11	Audio	Integrated Intel High Definition Audio, AC'97/20-bit audio with internal speakers	
12	Ethernet	Integrated (on-board)10/100/1000Mbps RJ45 port with WOL, PXE & ASF (Alert Standard Format) 2.0 OS independent software to monitor & analyse network connection	
13	PCI Slots	Minimum 2 PCI-E slots	
14	Ports	Minimum 1 Serial, 6 USB (Ver 2.0), VGA, Speaker, Microphone, Headphone	

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Item Name		Engineering - PC	
Item Code		PC02L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
15	Software	Windows 7 Professional 64bit (with roll back to 32 bit) with latest service pack, Restore / Recovery CD & with OS media CD with each PC (in absence of OS Media CD OEM pack of OS to be supplied), a software to provide data recovery to restore user data, settings, applications and Operating System in the event of a software crash or virus infection. The latest system drivers should be available on OEM's website for the entire lease period.	
16	Form Factor	Micro ATX Desktop	
17	Diagnostic Tool / Software	OEM's Diagnostic tool for hardware diagnostics	
18	Preloaded Management Software	Have preloaded client of management software having following features: 1. Remote software deployment 2. Remote patch deployment/management 3. Asset Tracking, Inventory Management (Software & Hardware) 4. Data and settings Migration tool 5. Out of band management supporting remote: Asset Tracking, Inventory Management, Power Control, Remote Diagnosis.	
19	Security	Removable media boot control, Serial, Parallel & USB Interface Control, Power-On Password, Setup Password, should give alert on management console and desktop on tampering the system. Should come with integrated Trusted Platform Module (TPM)1.2 Security Chip.	
20	Certifications	OS Certification from Microsoft	
		For OEM : ISO 9001 (Latest version)	

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Item Name		Engineering - PC	
Item Code		PC02L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
		ERTL / FCC - EMC class B	
		Latest version of IEC-60950-1 / IS 13252 / UL-60950	
		ACPI (Latest Vesion) compliant	
		RoHS compliant	
		Energy Star 5.0 compliant	
21	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		PC - Thinclient - Fanless	
Item Code		PC03L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Processor	x86 Processor at 1.6 GHz or higher	
3	Firmware Features	Latest MS Internet Explorer , HTML, JAVA JSP support , Javascript, XML, Active X, Sun JRE, Media Player, Citrix Web client	
4	Browser	Latest MS IE	
5	RAM	2 GB DDR3 upgradable to 4GB	
6	HDD	4GB Flash	
7	Monitor (Asset Controlled)	17" TFT Monitor (OEM make), TCO 05 compliant	
8	Keyboard	Minimum 104 keys	
9	Mouse	2/3 Button Optical Scroll Mouse	
10	Audio	Output 1/8 inch mini, full 16 –bit stereo	
11	Ethernet	Integrated (on-board)10/100 Mbps RJ45 port	
12	PCI Slots	Minimum 1 PCI slot	
13	Ports	Minimum 1 Serial, 1 Parallel, 4 USB (Ver 2.0), VGA	
14	Software	Windows XP Embedded / Windows CE	
15	Preloaded Management Software	Remote Management Agent	

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Item Name		PC - Thinclient - Fanless	
Item Code		PC03L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
16	Protocols	RDP, ICA, Wyse Wy-60, WY-50, WY-50+, IBM TN3270e, TN5250, TN3151, DEC VT 420, ADS A2; Hazeltine 1500; Tandem 6530 ; and SCO Console resident ,Terminal Emulations	
17	Additional	Citrix metaframe Compatible	
18	Compliance	Energy Star 5.0 compliant	
19	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		Graphics Workstation - Type I	
Item Code		WS01L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Processor	Xeon w3550 3.06GHz/8MB L3 cache or higher	
3	Chipset	Intel x58 chipset or later	
4	RAM	6 GB dual channel DDR3 1066 MHz or higher expandable to 24 GB	
5	HDD	500 GB (unformatted), 7200 rpm SATA drive or higher	
6	Optical Drive	16X or more DVD+/-RW SATA	
7	Graphics Card	Professional 3 D Graphic card NVIDIA or ATI FirePro (1GB)	
8	Monitor	19" TFT (OEM make) with min. resolution of 1280*1024 , TCO 05 compliant	
9	Keyboard	Minimum 104 keys with additional shortcut keys	
10	Mouse	2/3 Button Optical Scroll Mouse	
11	Audio	Integrated Audio with Internal speakers	
12	Ethernet	Integrated 10/100/1000 Mbps RJ45 port with WOL	
13	PCI Slots	Min. 4 (PCI Express and PCI Express x16) Slots	
14	Ports	Minimum 1 Parallel, 1 Serial, 4 USB (Ver 2.0), VGA, Speaker, Microphone, Headphone	

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Item Name		Graphics Workstation - Type I	
Item Code		WS01L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
15	Software	Pre installed MS Windows 7 Professional 64 bit with Restore / Recovery CD/disk & with OS media CD. Should be able to support Red Hat Linux 5 also.	
16	Diagnostic Tool / Software	OEM's Diagnostic tool for hardware diagnostics	
17	Preloaded Management Software	Have preloaded client of management software having following features: 1. Remote software deployment 2. Remote patch deployment/management 3. Asset Tracking, Inventory Management (Software & Hardware) 4. Data and settings Migration tool	
18	Security	Removable media boot control, Serial, Parallel & USB Interface Control, Power-On Password, Setup Password, should give alert on management console and desktop on tampering the system.	
19	Certifications (For whole workstation)	OS Certification from Microsoft	
		Certified for UGS products	
		Certified for autodesk products	
		Certified for 3D Modelling Softwares, PDMS	
		For OEM : ISO 9001 (Latest version)	
		ERTL / FCC - EMC class B	
		Latest version of IEC-60950-1 / IS 13252 / UL-60950	

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Item Name		Graphics Workstation - Type I	
Item Code		WS01L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
		ACPI (Latest Vesion) compliant	
		RoHS compliant	
20	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		Graphics Workstation - Type II	
Item Code		WS02L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Processor	Quad Core Intel Xeon 5640, 2.66 GHz with 12 MB L3 Cache, 5.86 GT/sec QPI	
3	Chipset	Intel 5520 or higher Intel Chipset	
4	RAM	8 GB dual channel DDR3 1333 MHz , expandable upto 48GB	
5	HDD	2 x 300 GB SAS HDD 10K rpm with SAS RAID Controller	
6	Optical Drive	16X or more DVD+/-RW SATA	
7	Graphics Card	NVIDIA or ATI Firepro (1GB)	
8	Monitor	19" TFT (OEM make) with min. resolution of 1280*1024, TCO 05 compliant	
9	Keyboard	Minimum 104 keys with additional shortcut keys	
10	Mouse	2/3 Button Optical Scroll Mouse	
11	Audio	Integrated Audio with Internal speakers	
12	Ethernet	Integrated 10/100/1000 Mbps RJ45 port with WOL	
13	Bays/Slots	Minimum 4 bays, 3 (PCI Express and PCI Express x16) Slots	
14	Ports	Minimum 1 Parallel, 1 Serial, 4 USB (Ver 2.0), VGA, Speaker, Microphone, Headphone	
15	Software	Pre installed MS Windows 7 Professional 64 bit with Restore / Recovery CD/disk & with OS media CD. Should be able to support Red Hat Linux 5 also.	

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Item Name		Graphics Workstation - Type II	
Item Code		WS02L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
16	Diagnostic Tool / Software	OEM's Diagnostic tool for hardware diagnostics	
17	Preloaded Management Software	Have preloaded client of management software having following features: 1. Remote software deployment 2. Remote patch deployment/management 3. Asset Tracking, Inventory Management (Software & Hardware) 4. Data and settings Migration tool	
18	Security	Removable media boot control, Serial, Parallel & USB Interface Control, Power-On Password, Setup Password, should give alert on management console and desktop on tampering the system.	
19	Certifications (For whole workstation)	OS Certification from Microsoft	
		Certified for UGS products	
		Certified for autodesk products	
		Certified for 3D Modelling Softwares, PDMS	
		For OEM : ISO 9001 (Latest version)	
		ERTL / FCC - EMC class B	
		Latest version of IEC-60950-1 / IS 13252 / UL-60950	
		ACPI (Latest Version) compliant	

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Item Name		Graphics Workstation - Type II	
Item Code		WS02L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
		RoHS compliant	
20	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		Laserjet Printer - A4 Mono Personal	
Item Code		LJ01L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Print Speed	15 ppm(A4, normal) or higher	
3	Connectivity	USB 2.0	
4	Print Resolution	600 x 600 dpi or higher	
5	Media Size	A4, A5, letter, executive, legal	
6	Paper Trays	One (1) or more	
7	RAM	8 MB or higher	
8	Duty Cycle	5000 Pages per month	
9	OS Compatibility	Windows XP,Vista,7	
10	Compliance	Energy Star compliant	
11	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		Laserjet Printer - A4 Mono Low End	
Item Code		LJ02L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Print Speed	25 ppm(A4, normal) or higher	
3	Duplex Printing	Required	
4	Connectivity	Ethernet LAN	
5	Print Resolution	600 x 600 dpi or higher	
6	Media Size	A4, A5, letter, executive, legal	
7	Paper Trays	One (1) or more	
8	RAM	32MB or higher	
9	Duty Cycle	15000 Pages per month	
10	Print Language Support	PCL 5e, PCL 6, PostScript 3 / PostScript 3 Emulation	
11	OS Compatibility	Windows XP,Vista,7	
12	Management	The printer should be remotely manageable through a standard web browser.	
13	Compliance	Energy Star compliant	
14	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		Laserjet Printer - A4 Mono General	
Item Code		LJ03L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
1	Make & Model		
2	Print Speed	30 ppm(A4, normal) or higher	
3	Duplex Printing	Required	
4	Connectivity	Ethernet LAN	
5	Print Resolution	600 x 600 dpi or higher	
6	Media Size	A4, A5, letter, executive, legal	
7	Paper Trays	Two (2)	
8	RAM	64MB or higher	
9	Duty Cycle	50,000 Pages per month	
10	Print Language Support	PCL 5e, PCL 6, PostScript 3 / PostScript 3 Emulation	
11	OS Compatibility	Windows XP,Vista,7	
12	Management	The printer should be remotely manageabe through a standard web browser.	
13	Compliance	Energy Star compliant	
14	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		Laserjet Printer - A3 Mono	
Item Code		LJ04L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
1	Make & Model		
2	Print Speed	40 ppm (A4, normal), 20 ppm (A3, normal) or higher	
3	Duplex Printing	Required	
4	Connectivity	Ethernet LAN	
5	Print Resolution	600 x 600 dpi or higher	
6	Media Size	A3, A4, A5, letter, executive, legal	
7	Media Type	Paper (plain, preprinted, letterhead, prepunched, bond, color, card stock, rough, recycled), envelopes, transparencies, labels	
8	Paper Trays	Two (2)	
9	RAM	128MB or higher	
10	Duty Cycle	2,50,000 Pages per month	
11	Print Language Support	PCL 5e, PCL 6, PostScript 3 / PostScript 3 Emulation	
12	OS Compatibility	Windows XP,Vista,7	
13	Management	The printer should be remotely manageabe through a standard web browser.	
14	Compliance	Energy Star compliant	
15	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		Laserjet Printer - A4 Color Low End	
Item Code		LJ05L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Print Speed (Color)	20 ppm (A4, normal) or higher	
3	Duplex Printing	Required	
4	Connectivity	Ethernet LAN	
5	Print Resolution	600 x 600 dpi or higher	
6	Media Size	A4, A5, letter, executive, legal	
7	Paper Trays	One (1) or more	
8	RAM	128 MB or higher	
9	Duty Cycle	25,000 Pages per month	
10	Print Language Support	PCL 5e, PCL 5c, PCL 6, PostScript 3 / PostScript 3 Emulation	
11	OS Compatibility	Windows XP,Vista,7	
12	Management	The printer should be remotely manageable through a standard web browser.	
13	Compliance	Energy Star compliant	
14	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		Laserjet Printer - A4 Color General	
Item Code		LJ06L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
1	Make & Model		
2	Print Speed (Color)	30 ppm (A4, normal)	
3	Duplex Printing	Required	
4	Connectivity	Ethernet LAN	
5	Print Resolution	600 x 600 dpi or higher	
6	Media Size	A4, A5, letter, executive, legal	
7	Paper Trays	Two (2)	
8	RAM	256MB or higher	
9	Duty Cycle	50,000 Pages per month	
10	Print Language Support	PCL 5e, PCL 5c, PCL 6, PostScript 3 / PostScript 3 Emulation	
11	OS Compatibility	Windows XP,Vista,7	
12	Management	The printer should be remotely manageable through a standard web browser.	
13	Compliance	Energy Star compliant	
14	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		Laserjet Printer - A3 Color	
Item Code		LJ07L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Print Speed(Color)	25 ppm (A4, normal) & 12 ppm (A3, normal) or higher	
3	Duplex Printing	Required	
4	Connectivity	Ethernet LAN	
5	Print Resolution	600 x 600 dpi or higher	
6	Media Size	A3, A4, A5, letter, executive, legal	
7	Media Type	Paper (plain, preprinted, letterhead, prepunched, bond, color, card stock, rough, recycled), envelopes, transparencies, labels	
8	Paper Trays	Two (2)	
9	RAM	128MB or higher	
10	Duty Cycle	1,00,000 Pages per month	
11	Print Language Support	PCL 5e, PCL 5c, PCL 6, PostScript 3 / PostScript 3 Emulation	
12	OS Compatibility	Windows XP,Vista,7	
13	Management	The printer should be remotely manageable through a standard web browser.	
14	Compliance	Energy Star compliant	

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Item Name		Laserjet Printer - A3 Color	
Item Code		LJ07L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
15	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		Deskjet Color Printer	
Item Code		DJ01L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Print Speed (color)	30 ppm (draft) or higher	
3	Duplex Printing	Required	
4	Connectivity	USB 2.0	
5	Print Resolution	1200 x 1200 dpi or higher	
6	Media Size	A4, A5, letter, executive, legal	
7	Media Type	Paper (plain, inkjet, photo), envelopes, transparencies, labels, greeting cards	
8	Paper Trays	One (1) or more	
9	RAM	32MB or higher	
10	Duty Cycle	7000 Pages per month	
11	Print Language Support	PCL 3 or equivalent	
12	OS Compatibility	Windows XP, Vista, 7	
13	Management	The printer should be remotely manageable through a standard web browser.	
14	Compliance	Energy Star compliant	
15	Warranty	OEM warranty (labour, parts, on-site) for the entire contract period	

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Item Name		Dot Matrix Printer	
Item Code		DM01L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
1	Make & Model		
2	Print Speed at 10 cpi	Minimum 400CPS(High-speed draft) and Minimun 100CPS (LQ)	
3	Printing Method	24 Pin impact dot matrix	
4	Print Direction	Bidirectional	
5	Character size	Minimum at 10cpi 136 maximum printed characters	
6	Character set	PC 437, Italics	
7	Paper width and length	Single sheet min 182 to 364 mm; continuous sheet 101 to 406mm	
8	Input Buffer	Minimum 64 KB	
9	Connectivity	Should be connectable to parallel/USB ports of devices	
10	OS Compatibility	Windows XP,Vista,7, Redhat Linux	
11	Power and Data cables	Each Printer is to be provided with Power cable and data cable	
12	Indian Language printing support	Should support Unicode and should be able to print in English & Hindi.	
13	Ribbon life	3 million characters or more	
14	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		Dot Matrix Printer - Heavy Duty	
Item Code		DM02L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
1	Make & Model		
2	Print Speed at 10 cpi	Minimum 550CPS(High-speed draft) and Minimun 100CPS (LQ)	
3	Printing Method	24 Pin impact dot matrix	
4	Print Direction	Bidirectional with logic	
5	Workload	Min 2000 pages per day	
6	Throughput (Draft Letter)	Min 600 pages per hour	
7	Character size	Minimum at 10cpi 136 maximum printed characters	
8	Character set	PC 437, Italics	
9	Paper width and length	Single sheet min 182 to 364 mm; continuous sheet 101 to 406mm	
10	Input Buffer	Minimum 64 KB	
11	Connectivity	Should be connectable to parallel/USB ports of devices	
12	OS Compatibility	Windows XP,Vista,7, Redhat Linux	
13	Power and Data cables	Each Printer is to be provided with Power cable and data cable	
14	Indian Language printing support	Should support Unicode and should be able to print in English & Devnagari Hindi.	
15	Ribbon life	20 million characters or more	

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Item Name		Dot Matrix Printer - Heavy Duty	
Item Code		DM02L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
16	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		Line Matrix Printer	
Item Code		LM01L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Print speed (Draft)	Minimum 1500 lines per minute	
3	Print speed (DP, Uppercase)	1100 lines per minute or higher	
4	Printing method	Line Impact	
5	Connectivity (Interface) Required	Serial, Parallel , Ethernet	
6	OS Compatibility	Windows XP,Vista,7, Redhat Linux	
7	Paper handling	Paper motion detection , paper out detection.	
8	Form Loop Control	Form loop control mechanism to be provided for pre-printed stationery.	
9	Ribbon Life	Minimum 75 million characters	
10	Noise Level	55dB(A) or less	
11	Network Interface	10/100Mbps Ethernet Interface	
12	Remote Management Software	Should come with a web based management software to manage the printer remotely.	
13	Cabinet	Should come with a quietised cabinet	
14	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		MFS - A4 Mono	
Item Code		MF01L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Functionality	Print, Copy, FAX and Scan	
3	Print and Copy Speed	20 ppm (A4) or higher	
4	Connectivity	Ethernet LAN	
5	Print Resolution	600 x 600 dpi	
6	Media Size	A4, A5, letter, executive, legal	
7	Paper Trays	One (1) or more	
8	Scan Technology	Color, flatbed, ADF	
9	RAM	64 MB	
10	Duty Cycle	5000 pages per month	
11	Print Language Support	PCL 5e, PCL 6, PostScript level 3 emulation	
12	OS Compatibility	Windows XP,Vista,7	
13	Management	The printer should be remotely manageable through a standard web browser.	
14	Compliance	Energy Star compliant	
15	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		MFS - A4 Color	
Item Code		MF02L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Functionality	Print, Copy and Scan	
3	Print and Copy Speed	20 ppm Mono & Color or higher	
4	Connectivity	Ethernet LAN, USB	
5	Print Resolution	600 x 600 dpi	
6	Media Size	A4, A5, letter, executive, legal	
7	Paper Trays	One (1) or more	
8	Scan Technology	CCD Scanner, 1200 x 1200 dpi optical resolution	
9	RAM	256 MB	
10	Duty Cycle	40000 pages per month	
11	Print Language Support	PCL 5e, PCL 6, PostScript level 3 emulation	
12	OS Compatibility	Windows XP, Vista, 7	
13	Management	The printer should be remotely manageable through a standard web browser.	
14	Compliance	Energy Star compliant	
15	Warranty	OEM warranty (labour, parts, on-site) for the entire contract period	

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Item Name		Plotter - A0 Low End	
Item Code		PL01L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Print Speed	85 sq. ft. per hour (image fast mode) or higher	
3	Media Size	42 inch wide sheet or roll	
4	Print Resolution, Black & color	600 x 600 dpi or higher	
5	Print length	150 ft	
6	Print language support	HP PCL 3-GUI, Adobe PostScript 5 via s/w Rip, HPGL/2 RTL	
7	Memory	32 MB (OEM) or higher	
8	Connectivity	IEEE 1284-compliant bidirectional parallel / USB 2.0, Fast Ethernet 10/100 Base-TX	
9	Media handling / document finishing	Single sheet feed, roll feed, automatic cutter	
10	Type faces	136 post script on Rip	
11	Operating System Support	Microsoft Windows XP, Vista, 2003, 2008, 7	
12	Media for Drivers	All necessary drivers required should be given in CD media.	
13	AutoCAD Support	Drivers to print from AutoCAD 2002 or Higher version to be provided.	
14	Certifications	Latest Version of IEC-60950-1 / IS 13252 / UL-60950	

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Item Name		Plotter - A0 Low End	
Item Code		PL01L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
15	Compliance	Energy Star compliant	
16	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		Plotter - MFS	
Item Code		PL02L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Compliance	Energy Star compliant	
	PRINTER		
3	Print Speed	Min 4 A0 per minute or 10 A1 per minute	
4	Resolution	400 DPI or higher	
5	Electronic Collation	Required	
6	Auto Roll Switching	Required	
7	Job Accounting	Required	
8	Paper Handling	3 rolls or more	
9	Media Cutter	Automatic Cutter	
10	Print output Size	914mm X 15m	
	CONTROLLER		
11	Connectivity Required	IEEE 1284 compliant bi-directional parallel / USB 2.0 , 10/100 Base-T Fast Ethernet	
12	RAM	512 MB or higher (OEM original)	
13	HDD	Min 18 GB or Higher	

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Item Name		Plotter - MFS	
Item Code		PL02L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
14	Remote Management Software (Plotter and Scanner)	Should come with a remote management software to monitor & manage the system.	
15	OS Compatibility	Windows XP,Vista,2003,2008,7	
16	Drivers	Windows 95, 98, Me, NT, 2000, XP; Embedded webserver file submitter. AutoCAD: R 14, 2000, 2002, 2004, 2005 for Windows ; ADOBE Acrobat 6.0	
17	Print Language	TIFF 6.0, CALS/G4, HP-GL/2, HP RTL	
18	Adobe Postscript5 with PDF	Required	
19	Scanning Speed	4 A0 per minute	
20	Scanning Resolution	400 DPI or higher	
21	Max Scan Length	36" x 15m	
22	Scan Media thickness	1mm or upto 13mm	
23	Con-currency (Printing, Scans)	Required	
24	Scan preview station	Using External monitor (17") OR Using Client Machine (PC to be provided as integral part of the solution)	

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Item Name		Plotter - MFS	
Item Code		PL02L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
25	Centering and Deskewing	Required	
26	Tray to Hold Originals	Required	
27	Zoom Options	25% TILL 400% ADJUSTABLE IN 1% AND 0.1% STEPS	
28	Set Collation / Job Program	Copying and Printing	
	Software		
29	Scanned Image Editing	Required	
30	Raster to Vector Conversion	Required	
31	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		Plotter - A0 Low End (Inkjet)	
Item Code		PL03L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Technology	Ink Jet	
3	Print Speed, Normal Mode	140 Sq ft/hr	
4	Resolution (black, color)	600 x 600 dpi or higher	
5	Paper Handling	Single sheet feed, roll feed	
6	Media Cutter	Automatic cutter	
7	Media Type	Plain Paper, Polyester Film, Tracing & Vellum	
8	Print Output Size	A0,A1,A2, 914mm x 15m	
9	RAM	64 MB or higher (OEM original)	
10	Connectivity Required	IEEE 1284-compliant bidirectional parallel / USB 2.0, 10/100 Base-T Fast Ethernet	
11	OS Compatibility	Microsoft Windows XP, Vista, 2003, 2008, 7	
12	Drivers	Win 2000, XP Autocad: R14, 2000, 2002, 2004, 2005, ADOBE Acrobat 6.0	
13	File Format	TIFF 6.0, CAL/G4, HPGL, HP-GL/2, HP RTL, AutoCad, Postscript, pdf	
14	Adobe Postscript with PDF	Required	
15	Compliance	Energy Star compliant	

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Item Name		Plotter - A0 Low End (Inkjet)	
Item Code		PL03L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
16	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period	

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Item Name		Scanner - A4 low end	
Item Code		SC01L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Type	A4 Color Flatbed Scanner	
3	Hardware Resolution	4800 x 4800 dpi	
4	Software	Scanning Software, OCR software to be provided.	
5	OS Compatibility	Windows XP, Vista, Windows 7	
6	Interface	Should have USB 2.0 with requisite cables.	
7	Compliance	Energy Star compliant	
8	Warranty	OEM warranty (labour, parts, on-site) for the entire contract period.	

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Item Name		Scanner - A4 Color	
Item Code		SC02L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
1	Make & Model		
2	Type	A4 Color Flatbed Scanner	
3	ADF speed	25 ppm / 50 ipm	
4	Hardware Resolution	600 x 600 dpi	
5	Software	Scanning Software, OCR software to be provided.	
6	OS Compatibility	Windows XP,Vista, Windows 7	
7	Interface	SCSI / USB 2.0 with requisite cables. In case of SCSI interface, SCSI card must also be provided.	
8	Scan to PDF	Scan to searchable PDF facility should be available.	
9	Compliance	Energy Star compliant	
10	Warranty	OEM warranty (labour/parts/on-site) for the entire contract period.	

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Item Name		Scanner - A3 Color	
Item Code		SC03L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Type	A3 Color Flatbed Scanner	
3	Hardware Resolution	800 x 1600 dpi	
4	Speed	10 ms/line or more	
5	Transparency Adapter	Should come with transparency adapter to scan transparencies, slides, positive and negative films	
6	Software	Scanning Software, OCR software to be provided.	
7	Scan Modes	Color Mode: 42 bits/pixel, Grayscale Mode: 14 bits/pixel, Linear Mode: 1 bit/pixel	
8	OS Compatibility	Windows XP, Vista, Windows 7	
9	Compliance	Energy Star compliant	
10	Interface	Necessary SCSI card & cable to be provided for connecting scanner to work station/PC	
11	Warranty	OEM warranty (labour, parts, on-site) for the entire contract period.	

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Item Name		Scanner - A4 Color High End	
Item Code		SC04L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Scanner Type	A4 Flatbed Color Scanner	
3	Image Sensor Type	CCD(Charge Coupled Device)	
4	Feed	Manual & ADF Ready with paper tray/stacker/chute	
5	ADF Capacity	100 pages or higher	
6	Duplex	Should be duplex ready.	
7	Optical Resolution	600dpi or higher	
8	Output Resolution	600dpi or higher	
9	Scanning Speed at 200DPI(COLOR, PORTRAIT)	15 ppm (30 ipm in duplex mode) or higher	
10	Scanning Speed at 200DPI(B & W , PORTRAIT)	40 ppm (80 ipm in duplex mode) or higher	
11	Document Size	A4, Legal, Letter	
12	Interface	SCSI-II /USB with requisite cables. In case of SCSI interface, SCSI card to be provided.	
13	OCR Software	Integrated OCR Abbyy Finereader 7.0 or higher to be provided	
14	OS Compatibility	Windows XP,Vista, Windows 7	

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Item Name		Scanner - A4 Color High End	
Item Code		SC04L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
15	Daily Duty Cycle	4000 documents per day	
16	Scan to PDF	Scan to PDF required.	
17	Compliance	Energy Star compliant	
18	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period.	

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Item Name		Scanner - A3 Color High End	
Item Code		SC05L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
1	Make & Model		
2	Scanner Type	A3 Flatbed Color Scanner	
3	Image Sensor Type	CCD(Charge Coupled Device)	
4	Feed	Manual & ADF Ready with paper tray/chute/stacker	
5	ADF Capacity	200 pages or higher	
6	Duplex	Should be duplex ready.	
7	Optical Resolution	600dpi or higher	
8	Output Resolution	600dpi or higher (color, grayscale, binary)	
9	Scanning Speed at 200DPI(COLOR, PORTRAIT)	40 ppm (80 ipm in duplex)or higher	
10	Scanning Speed at 200DPI(B & W , PORTRAIT)	50 ppm (100 ipm in duplex) or higher	
11	Document Size	A8 to A3	
12	Interface	Ultra SCSI-(50M)SCSI-I/High Speed USB 2.0 with requisite cables. In case of SCSI interface, SCSI card to be provided	
13	OCR Software	Integrated OCR Abbyy Finereader 7.0 or higher to be provided	
14	OS Compatibility	Windows XP,Vista,7	

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Item Name		Scanner - A3 Color High End	
Item Code		SC05L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
15	Daily Duty Cycle	8000 documents per day	
16	Scan to PDF	Scan to PDF required.	
17	Compliance	Energy Star compliant	
18	Warranty	OEM warranty (labour,parts,on-site) for the entire contract period.	

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Item Name		Small UPS	
Item Code		UP01L	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
1	Make & Model		
2	Rating	800 VA or above	
3	Technology	Line-Interactive	
4	Nominal Input Voltage	230V single phase	
5	Input Voltage Range	160V AC to 275V AC	
6	Input Frequency	50 Hz +/- 3 Hz	
7	Nominal Output Voltage	230V AC +/- 5%	
8	Output Frequency	50 Hz +/-1 Hz	
9	Output power capacity	Min. 560 watts	
10	Automatic Voltage Regulation	Automatic Voltage Regulation to be provided	
11	Transfer time	< 6ms	
12	Overload capability	110% for 60 minutes, 150% for 5 minutes	
13	Protection	Surge, brownout, sag, short circuit, etc protection required.	
14	Battery Type	Sealed, Maintenance-free, Internally mounted.	
15	Battery make	Panasonic / Rocket /CSB	

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Item Name		Small UPS	
Item Code		UP01L	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
16	Communication Port	RS232C or USB Port & necessary communication cables to be provided	
17	Backup	Min. 20 minutes on single PC load	
18	Power Management Software	The UPS should have Power Management Software to view & monitor UPS status, backup time & shutdown scheduling for Windows XP,Vista,7 & Red Hat Linux systems	
19	Battery Refresh	The bidder shall replace all the batteries after every 2.5 years and whenever the batteries get faulty.	
20	Compliance	Latest Version of IEC-60950-1 / IS 13252 / UL-60950	
21	Warranty	OEM onsite,labour,parts warranty for the entire lease period.	

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Item Name		2KVA UPS	
Item Code		UP02L	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
1	Make & Model		
2	Rating	2KVA	
3	Technology	Line Interactive	
4	Nominal Input Voltage	230V single phase	
5	Input Voltage Tolerance	170V to 275V	
6	Input Frequency	50 Hz +/- 1 Hz	
7	Nominal Output Voltage	230 V AC +/- 5%	
8	Output Frequency	50 Hz +/- 1 Hz	
9	Output power factor	0.7 or higher	
10	Automatic Voltage Regulation	Required	
11	EMI/RFI Protection	Required	
12	Overall Efficiency	>90%	
13	Overload capability	110% for 5 minutes;	
14	Indicators	LCD Display (on mains, on battery, replace battery, overload, etc), Input & output voltage,frequency, battery voltage	
15	Cold start	Required	

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Item Name		2KVA UPS	
Item Code		UP02L	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
16	Battery Type	Sealed, Maintenance-free, Internally mounted or with proper enclosure	
17	Battery Make	Panasonic / Rocket /CSB	
18	Backup	Min. 30 minutes on full load	
19	Battery Refresh	The bidder shall replace all the batteries after every 2.5 years and whenever the batteries get faulty.	
20	Communication Port	RS232C port & necessary communication cables to be provided	
21	Power Management Software	The UPS has Power Management Software to view & monitor UPS status, backup time, battery status, temperature & shutdown scheduling for Windows XP ,Vista,7 & Red Hat Linux systems.	
22	Certifications	Latest Version of IEC-60950-1 / IS 13252 / UL-60950	
23	Warranty	OEM onsite,labour,parts warranty for the entire lease period.	

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Item Name		5KVA UPS	
Item Code		UP03H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
1	Make & Model		
2	Rating	5KVA	
3	Technology	True Online, Double Conversion with PWM Technology & IGBT based Inverter	
4	Nominal Input Voltage	230V single phase	
5	Input Voltage Range	160V AC to 275V AC	
6	Input Frequency	50 Hz +/- 3 Hz	
7	Input Power Factor	> 0.9	
8	Nominal Output Voltage	230 Vac +/- 2%	
9	Output Frequency	50 Hz +/- 1 Hz	
10	Output power factor	0.7 or higher	
11	Overall efficiency	> 85%	
12	Overload capability	110% for 60 minutes	
13	THD	<5%	
14	Battery Type	Sealed, maintenance-free	
15	Battery Make	Panasonic / Rocket / CSB	
16	Desired Backup	Min. 60 minutes backup on full load	
17	Cold Start	Cold start on 100% load	
18	Communication Port	RS232 or USB port & necessary communication cables to be provided	
19	SNMP Card	Should come with an SNMP Card for connecting UPS to Ethernet LAN to monitor and manage the UPS with a standard Web browser, while simultaneously providing shutdown & restart for multiple windows, Linux & Unix computer systems over LAN	

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Item Name		5KVA UPS	
Item Code		UP03H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifcations	
20	Power Management Software	The UPS muat have Power Management Software to view & monitor UPS status, backup time & shutdown scheduling for Windows XP,Vista,2003,7 & Red Hat Linux systems	
21	Battery Refresh	The bidder shall replace all the batteries after every 2.5 years and whenever the batteries get faulty.	
22	Compliance	Latest Version of IEC-60950-1 / IS 13252 / UL-60950	
23	Warranty	OEM onsite,labour,parts warranty for the entire lease period.	
24	Indicators	LCD Display (on mains, on battery, replace battery, overload, etc), Input & output voltage,frequency, battery voltage	

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Item Name		10KVA Online UPS	
Item Code		UP04H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
1	Make & Model		
2	System Configuration	10 KVA	
3	Technology	True Online, Double Conversion with PWM Technology & IGBT based Inverter	
4	Input Source	Mains/Local DG Set Compatibility	
5	Input Voltage	415V AC 3 phase, 4 wires	
6	Input Voltage Tolerance	± 15%	
7	Input Frequency	50 Hz	
8	Input Frequency Tolerance	45 HZ TO 55 HZ	
9	Input Power factor at nominal voltage and full load	>0.9	
10	Total Harmonic Distortion at 100% NonLinear Load	< 5%	
11	Output Voltage	230 Volts Single Phase	
12	Output Voltage Regulation	± 1% - For 100% static load. THDU <3% between phase to neutral for 100% non-linear load	
13	Output Power Factor	0.8 or higher	
14	Over Load Rating	110% for 60 minutes, 125% for 10 minutes, 150% for 60 seconds	
15	Inverter Efficiency	> 89%	
16	Overall efficiency	> 85%	
17	Static Bypass switch	A Built-in static transfer switch shall be provided as an integral part of the UPS. The Static switch shall be a bi-directional naturally committed high-speed static (SCR type) device rated to carry full load current continuously.	

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Item Name		10KVA Online UPS	Vendor Compliance (Yes/No)
Item Code		UP04H	
S.No.	Parameter / Feature	Detailed Specifications	
18	Manual Bypass switch	The UPS should have a Built-in Maintenance Bypass Isolator to directly connect the load to the input AC power source, bypassing the rectifier, inverter and static transfer switch.	
19	Battery type	Sealed Maintenance Free with a separate Battery Rack	
20	Battery make	Panasonic / Rocket / CSB	
21	Backup	Min. 60 minutes backup on full load	
22	Battery management	The UPS should have Battery Management feature for: Periodic Battery Test Controlling Charging Time and Current Increase in Battery Life Protection : Battery low Cut-off without draining current	
23	LCD Panel	The UPS should have LCD panel for measuring Output voltages, Output currents and Frequency, Battery Voltage and charging / discharging current, display status of the battery capacity and backup time left and event logging.	
24	RS232 interface	RS232 or USB port & necessary communication cables to be provided	
25	Power Management Software	The UPS should have Power management software and interface cable, providing complete power monitoring and control capabilities to system administrators. It should Safely shutdown & restart multiple Windows & Linux clients over LAN, analyze power conditions with voltage logging, Should support Linux & Windows (XP,2003,Vista,7) operating systems.	

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Item Name		10KVA Online UPS	Vendor Compliance (Yes/No)
Item Code		UP04H	
S.No.	Parameter / Feature	Detailed Specifications	
26	SNMP Card	Should come with an SNMP Card for connecting UPS to Ethernet LAN to monitor and manage the UPS with a standard Web browser, while simultaneously providing shutdown & restart for multiple windows, Linux & Unix computer systems over LAN.	
27	Synchronization	The UPS should come with hardware / software required for Synchronization between the outputs of two or more such independent UPS systems.	
28	Battery Refresh	The bidder shall replace all the batteries after every 2.5 years and whenever the batteries get faulty.	
29	Compliance	Latest Version of IEC-60950-1 / IS 13252 / UL-60950	
30	Warranty	OEM onsite,labour,parts warranty for the entire lease period.	

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Item Name		2 x 10 KVA Online UPS	
Item Code		UP05H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
1	Make & Model		
2	System Configuration	2x10 KVA Online UPS in parallel redundant equal load sharing Mode. One UPS should be capable of taking 100% load instantaneously in case other UPS fails. The parallel redundancy equal load sharing feature should be an inbuilt feature of the UPS, and should not be provided through some external parallel redundancy kit.	
3	Technology	True Online, Double Conversion with PWM Technology & IGBT based Inverter	
4	Input Source	Mains/Local DG Set Compatibility	
5	Input Voltage	415V AC 3 phase, 4 wires	
6	Input Voltage Tolerance	± 15%	
7	Input Frequency	50 Hz	
8	Input Frequency Tolerance	45 HZ TO 55 HZ	
9	Input Power factor at nominal voltage and full load	>0.9	
10	Total Harmonic Distortion at 100% NonLinear Load	< %5	
11	Output Voltage	230 Volts Single Phase	
12	Output Voltage Regulation	± 1% - For 100% static load. THDU <3% between phase to neutral for 100% non-linear load	
13	Output Power Factor	0.8 or higher	
14	Over Load Rating	110% for 10 minutes, 125% for 01 minutes, 150% for 30 seconds	
15	Inverter Efficiency	> 89%	
16	Overall efficiency	> 85%	

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Item Name		2 x 10 KVA Online UPS	
Item Code		UP05H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
17	Static Bypass switch	A Built-in static transfer switch shall be provided as an integral part of the UPS. The Static switch shall be a bi-directional naturally committed high-speed static (SCR type) device rated to carry full load current continuously.	
18	Manual Bypass switch	The UPS should have a Built-in Maintenance Bypass Isolator to directly connect the load to the input AC power source, bypassing the rectifier, inverter and static transfer switch.	
19	Battery type	Two independent Sealed Maintenance Free battery banks with a separate Battery Rack	
20	Battery make	Panasonic / Rocket / CSB	
21	Backup	Min. 60 minutes backup on full load on each battery bank	
22	Battery management	The UPS should have Battery Management feature for: Periodic Battery Test Controlling Charging Time and Current Increase in Battery Life Protection : Battery low Cut-off without draining current	
23	LCD Panel	The UPS should have LCD panel for measuring Output voltages, Output currents and Frequency, Battery Voltage and charging / discharging current, display status of the battery capacity and backup time left and event logging.	
24	RS232 interface	RS232 interface to be provided	

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Item Name		2 x 10 KVA Online UPS	
Item Code		UP05H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifcations	
25	Power Management Software	The UPS should have Power management software and interface cable, providing complete power monitoring and control capabilities to system administrators. It should Safely shutdown & restart multiple Windows & Linux clients over LAN, analyze power conditions with voltage logging, Should support Linux & Windows (XP,2003,Vista,7) <u>operating systems.</u>	
26	SNMP Card	Should come with an SNMP Card for connecting UPS to Ethernet LAN to monitor and manage the UPS with a standard Web browser, while simultaneously providing shutdown & restart for multiple windows, Linux & Unix <u>computer systems over LAN.</u>	
27	Synchronization	The UPS should come with hardware/software required to provide Synchronization capability between the outputs of two or more independent UPS systems.	
28	Battery Refresh	The bidder shall replace all batteries after every 2.5 years and whenever the batteries get faulty	
29	Compliance	Latest Version of IEC-60950-1 / IS 13252 / UL-60950	
30	Warranty	OEM onsite,labour,parts warranty for the entire lease period.	

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Item Name		20KVA Online UPS	
Item Code		UP06H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifcations	
1	Make & Model		
2	System Configuration	20 KVA	
3	Technology	True Online, Double Conversion with PWM Technology & IGBT based Inverter	
4	Input Source	Mains/Local DG Set Compatibility	
5	Input Voltage	415V AC 3 phase, 4 wires	
6	Input Voltage Tolerance	± 15%	
7	Input Frequency	50 Hz	
8	Input Frequency Tolerance	45 HZ TO 55 HZ	
9	Input Power factor at nominal voltage and full load	>0.9	
10	Total Harmonic Distortion at 100% NonLinear Load	< 5%	
11	Output Voltage	230 Volts Single Phase	
12	Output Voltage Regulation	± 1% - For 100% static load. THDU <3% between phase to neutral for 100% non-linear load	
13	Output Power Factor	0.8 or higher	
14	Over Load Rating	110% for 60 minutes, 125% for 10 minutes, 150% for 60 seconds	
15	Inverter Efficiency	> 89%	
16	Overall efficiency	> 85%	
17	Static Bypass switch	A Built-in static transfer switch shall be provided as an integral part of the UPS. The Static switch shall be a bi-directional naturally committed high-speed static (SCR type) device rated to carry full load current continuously.	

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Item Name		20KVA Online UPS	
Item Code		UP06H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
18	Manual Bypass switch	The UPS should have a Built-in Maintenance Bypass Isolator to directly connect the load to the input AC power source, bypassing the rectifier, inverter and static transfer switch.	
19	Battery type	Sealed Maintenance Free with a separate Battery Rack	
20	Battery make	Panasonic / Rocket / CSB	
21	Backup	Min. 60 minutes backup on full load	
22	Battery management	The UPS should have Battery Management feature for: Periodic Battery Test Controlling Charging Time and Current Increase in Battery Life Protection : Battery low Cut-off without draining current	
23	LCD Panel	The UPS should have LCD panel for measuring Output voltages, Output currents and Frequency, Battery Voltage and charging / discharging current, display status of the battery capacity and backup time left and event logging.	
24	RS232 interface	RS232 or USB port & necessary communication cables to be provided	
25	Power Management Software	The UPS should have Power management software and interface cable, providing complete power monitoring and control capabilities to system administrators. It should Safely shutdown & restart multiple Windows & Linux clients over LAN, analyze power conditions with voltage logging, Should support Linux & Windows (XP,2003,Vista,7) operating systems.	

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Item Name		20KVA Online UPS	
Item Code		UP06H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifcations	
26	SNMP Card	Should come with an SNMP Card for connecting UPS to Ethernet LAN to monitor and manage the UPS with a standard Web browser, while simultaneously providing shutdown & restart for multiple windows, Linux & Unix computer systems over LAN.	
27	Synchronization	The UPS should come with hardware / software required for Synchronization between the outputs of two or more such independent UPS systems.	
28	Battery Refresh	The bidder shall replace all the batteries after every 2.5 years and whenever the batteries get faulty.	
29	Compliance	Latest Version of IEC-60950-1 / IS 13252 / UL-60950	
30	Warranty	OEM onsite,labour,parts warranty for the entire lease period.	

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Item Name		2 x 20 KVA Online UPS	
Item Code		UP07H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
1	Make & Model		
2	System Configuration	2x20 KVA Online UPS in parallel redundant equal load sharing Mode. One UPS should be capable of taking 100% load instantaneously in case other UPS fails. The parallel redundancy equal load sharing feature should be an inbuilt feature of the UPS, and should not be provided through some external parallel redundancy kit.	
3	Technology	True Online, Double Conversion with PWM Technology & IGBT based Inverter	
4	Input Source	Mains/Local DG Set Compatibility	
5	Input Voltage	415V AC 3 phase, 4 wires	
6	Input Voltage Tolerance	± 15%	
7	Input Frequency	50 Hz	
8	Input Frequency Tolerance	45 HZ TO 55 HZ	
9	Input Power factor at nominal voltage and full load	>0.9	
10	Total Harmonic Distortion at 100% NonLinear Load	< 5%	
11	Output Voltage	230 Volts Single Phase	
12	Output Voltage Regulation	± 1% - For 100% static load. THDU <3% between phase to neutral for 100% non-linear load	
13	Output Power Factor	0.8 or higher	
14	Over Load Rating	110% for 10 minutes, 125% for 01 minutes, 150% for 30 seconds	
15	Inverter Efficiency	> 89%	
16	Overall efficiency	> 85%	

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Item Name		2 x 20 KVA Online UPS	
Item Code		UP07H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
17	Static Bypass switch	A Built-in static transfer switch shall be provided as an integral part of the UPS. The Static switch shall be a bi-directional naturally committed high-speed static (SCR type) device rated to carry full load current continuously.	
18	Manual Bypass switch	The UPS should have a Built-in Maintenance Bypass Isolator to directly connect the load to the input AC power source, bypassing the rectifier, inverter and static transfer switch.	
19	Battery type	Two independent Sealed Maintenance Free battery banks with a separate Battery Rack	
20	Battery make	Panasonic / Rocket / CSB	
21	Backup	Min. 60 minutes backup on full load on each battery bank	
22	Battery management	The UPS should have Battery Management feature for: Periodic Battery Test Controlling Charging Time and Current Increase in Battery Life Protection : Battery low Cut-off without draining current	
23	LCD Panel	The UPS should have LCD panel for measuring Output voltages, Output currents and Frequency, Battery Voltage and charging / discharging current, display status of the battery capacity and backup time left and event logging.	
24	RS232 interface	RS232 interface to be provided	

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Item Name		2 x 20 KVA Online UPS	
Item Code		UP07H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
25	Power Management Software	The UPS should have Power management software and interface cable, providing complete power monitoring and control capabilities to system administrators. It should Safely shutdown & restart multiple Windows & Linux clients over LAN, analyze power conditions with voltage logging, Should support Linux & Windows (XP,2003,Vista,7) operating systems.	
26	SNMP Card	Should come with an SNMP Card for connecting UPS to Ethernet LAN to monitor and manage the UPS with a standard Web browser, while simultaneously providing shutdown & restart for multiple windows, Linux & Unix computer systems over LAN.	
27	Synchronization	The UPS should come with hardware/software required to provide Synchronization capability between the outputs of two or more independent UPS systems.	
28	Battery Refresh	The bidder shall replace all batteries after every 2.5 years and whenever the batteries get faulty	
29	Compliance	Latest Version of IEC-60950-1 / IS 13252 / UL-60950	
30	Warranty	OEM onsite,labour,parts warranty for the entire lease period.	

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Item Name		40 KVA Online UPS	
Item Code		UP08H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
1	Make & Model		
2	System Configuration	40 KVA Online UPS	
3	Technology	True On-line, double conversion type	
4	Input Source	Mains/Local DG Set Compatibility	
5	Input Voltage	415 VAC 3 phase, 4 wires	
6	Input Voltage Tolerance	± 15%	
7	Input Frequency	50 Hz	
8	Input Frequency Tolerance	45 HZ TO 55 HZ	
9	Input Power Factor at nominal voltage and full load	>0.9	
10	Total Harmonic Distortion at 100% NonLinear Load	< %5	
11	Output Voltage	415 VAC 3 phase, 4 wires	
12	Output Voltage Regulation	± 1% for 100% static load , ± 1% for 100% balanced load, ± 1% for 100% un-balanced load. THDU < 3% between Phase to Neutral for 100% non-linear load	
13	Output Power Factor	0.8 or higher	
14	Over Load Rating	110% for 10 minutes, 125% for 01 minutes 150% for 30 seconds	
15	Inverter Efficiency	> 89%	
16	Overall efficiency	> 85%	
17	Static Bypass switch	A Built-in static transfer switch shall be provided as an integral part of the UPS. The Static switch shall be a bi-directional naturally committed high-speed static (SCR type) device rated to carry full load current continuously.	

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Item Name		40 KVA Online UPS	
Item Code		UP08H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
18	Manual Bypass switch	The UPS should have a Built-in Maintenance Bypass Isolator to directly connect the load to the input AC power source, bypassing the rectifier, inverter and static transfer switch.	
19	Battery type	Two independent Sealed Maintenance Free battery banks with a separate Battery Rack	
20	Battery make	Panasonic / Rocket / CSB	
21	Backup	Min. 60 minutes backup on full load on each battery bank	
22	Battery management	The UPS should have Battery Management feature for: Periodic Battery Test Controlling Charging Time and Current Increase in Battery Life Protection : Battery low Cut-off without draining current	
23	LCD Panel	The UPS should have LCD panel for measuring Output voltages, Output currents and Frequency, Battery Voltage and charging / discharging current, display status of the battery capacity and backup time left and event logging.	
24	RS232 interface	RS232 interface to be provided	
25	Power Management Software	The UPS should have Power management software and interface cable, providing complete power monitoring and control capabilities to system administrators. It should Safely shutdown & restart multiple Windows & Linux clients over LAN, analyze power conditions with voltage logging, Should support Linux & Windows (XP,2003,2008,Vista,7) operating systems.	

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Item Name		40 KVA Online UPS	
Item Code		UP08H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
26	SNMP Card	Should come with an SNMP Card for connecting UPS to Ethernet LAN to monitor and manage the UPS with a standard Web browser, while simultaneously providing shutdown & restart for multiple windows, Linux & Unix computer systems over LAN.	
27	Synchronization	The UPS should come with hardware/software required to provide Synchronization capability between the outputs of two or more independent UPS systems.	
28	Battery Refresh	The bidder shall replace all batteries after every 2.5 years and whenever the batteries get faulty	
29	Compliance	Latest Version of IEC-60950-1 / IS 13252 / UL-60950	
30	Warranty	OEM onsite,labour,parts warranty for the entire lease period.	

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Item Name		2x40 KVA Online UPS	
Item Code		UP09H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifcations	
1	Make & Model		
2	System Configuration	2x40 KVA Online UPS in parallel redundant equal load sharing Mode. One UPS should be capable of taking 100% load instataneously in case other UPS fails. The parallel redundancy equal load sharing feature should be an inbuilt feature of the UPS, and should not be provided through some external parallel redundancy kit.	
3	Technology	True On-line, double conversion type	
4	Input Source	Mains/Local DG Set Compatibility	
5	Input Voltage	415 VAC 3 phase, 4 wires	
6	Input Voltage Tolerance	± 15%	
7	Input Frequency	50 Hz	
8	Input Frequency Tolerance	45 HZ TO 55 HZ	
9	Input Power Factor at nominal voltage and full load	>0.9	
10	Total Harmonic Distortion at 100% NonLinear Load	< %5	
11	Output Voltage	415 VAC 3 phase, 4 wires	

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Item Name		2x40 KVA Online UPS	
Item Code		UP09H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
12	Output Voltage Regulation	$\pm 1\%$ for 100% static load , $\pm 1\%$ for 100% balanced load, $\pm 1\%$ for 100% un-balanced load. THDU < 3% between Phase to Neutral for 100% non-linear load	
13	Output Power Factor	0.8 or higher	
14	Over Load Rating	110% for 10 minutes, 125% for 01 minutes 150% for 30 seconds	
15	Inverter Efficiency	> 89%	
16	Overall efficiency	> 85%	
17	Static Bypass Switch	A Built-in static transfer switch shall be provided as an integral part of the UPS. The Static switch shall be a bi-directional naturally committed high-speed static (SCR type) device rated to carry full load current continuously.	
18	Manual Bypass Switch	The UPS should have a Built-in Maintenance Bypass Isolator to directly connect the load to the input AC power source, bypassing the rectifier, inverter and static transfer switch.	
19	Battery type	Two independent Sealed Maintenance Free battery banks with a separate Battery Rack	
20	Battery make	Panasonic / Rocket / CSB	
21	Backup	Min. 60 minutes backup on full load on each battery bank	

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Item Name		2x40 KVA Online UPS	
Item Code		UP09H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
22	Battery management	The UPS should have Battery Management feature for: Periodic Battery Test Controlling Charging Time and Current Increase in Battery Life Protection : Battery low Cut-off without draining current	
23	LCD Panel	The UPS should have LCD panel for measuring Output voltages, Output currents and Frequency, Battery Voltage and charging / discharging current, display status of the battery capacity and backup time left and event logging.	
24	RS232 interface	RS232 interface to be provided	
25	Power Management Software	The UPS should have Power management software and interface cable, providing complete power monitoring and control capabilities to system administrators. It should Safely shutdown & restart multiple Windows & Linux clients over LAN, analyze power conditions with voltage logging, Should support Linux & Windows (XP,2003,Vista,7) operating systems.	
26	SNMP Card	Should come with an SNMP Card for connecting UPS to Ethernet LAN to monitor and manage the UPS with a standard Web browser, while simultaneously providing shutdown & restart for multiple windows, Linux & Unix computer systems over LAN.	

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Item Name		2x40 KVA Online UPS	
Item Code		UP09H	Vendor Compliance (Yes/No)
S.No.	Parameter / Feature	Detailed Specifications	
27	Synchronization	The UPS should come with hardware/software required to provide Synchronization capability between the outputs of two or more independent UPS systems.	
28	Battery Refresh	The bidder shall replace all batteries after every 2.5 years and whenever the batteries get faulty	
29	Compliance	Latest Version of IEC-60950-1 / IS 13252 / UL-60950	
30	Warranty	OEM onsite,labour,parts warranty for the entire lease period.	

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Item Name		SAN Storage	
Item Code		ST01H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Storage	The offered storage system should be compatible with multi-vendor heterogeneous servers and operating systems	
3	Storage Capacity Required	48 Nos. of 300GB, 15K FC HDDs to be provided. Additional 4 HDDs to be provided as hot spare.	
4	Storage Scalability	Should be scalable to 20 TB with 300GB HDDs	
5	RAID support	RAID 1, 5	
6	Controller	Dual controllers (fully redundant with support for automatic failover)	
7	Cache per Controller	4 GB or higher Cache per controller	
8	Fibre Channel HBA's	12 Nos. of 4 Gbps FC HBAs to be provided (Windows,Linux compatible)	
9	Fibre Channel Cable	12 Nos. of 10m LC-LC Multi-Mode Fibre Channel Cables to be provided	
10	Muti-pathing software	Required	
11	Power Supply	Redundant Hot Pluggable Power Supplies.	
12	Front End / Back End Ports	2 nos. of 4 Gbps Front End ports per Controller. ALL backend ports should be 4 Gbps.	
13	OS Support	Support for Windows 2003, 2008, RHEL 3 & ABOVE	
14	Fiber switch	2 No.s of 8 - port 4Gbps or higher fiber SAN Switches compatible with the storage solution	

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Item Name		SAN Storage	
Item Code		ST01H	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
15	Mounting	Rack mountable with necessary rack mounting kit and accessories	
16	Management Software	Software for storage management, RAID configuration, LUN creations, Storage Health monitoring, Alerting, partitioning etc. to be provided.	
17	IOPS	Storage should offer min. 1,00,000 IOPs.	
18	Throughput	Min. 650MB/s throughput	
19	Warranty	OEM onsite , labour , parts warranty for the entire lease period	

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Item Name		NAS Storage	
Item Code		ST02H	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
1	Make & Model		
2	Rack mount	Should be rack mount	
3	Processor	Two Dual Core Intel Xeon procesors 2.0 GHz or higher	
4	RAM	4 GB DDR3 expandable to 8 GB	
5	Cache Memory	1MB level 3 cache per CPU	
6	Hard Drives	Minimum 16x300GB 10K rpm hot pluggable internal Ultra 320 SCSI HDDs. The NAS box should also support SATA drives for aplications like snapshots.	
7	HDD Bays (Internal & External)	At least 16 bays (OEM Make) to be provided from day 1	
8	Scalability	Minimum 8TB with 300GB HDD	
9	Network Connectivity	2 10/100/1000 auto sensing NICs	
10	RAID Controller	2 Nos. of RAID Controllors supporting RAID 0, RAID 1 & RAID 5 each with 256MB battery backed cache	
11	Network support	TCP/IP, FTP, CIFS, HTTP 1.1, NFS	
12	Power Suply & Fans	Redundant & hot pluggable	
13	Fault Recovery	Quick restore CD for disaster recovery	
14	Network Client Types Support	Should support Windows XP, Vista, 7, UNIX & Redhat Linux	

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Item Name		NAS Storage	
Item Code		ST02H	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
15	Manageability	Should come with management software to manage the storage allocation, etc.	
16	Backup device	Should come with LTO 4 Ultrium drive with 5 nos. of 800GB capacity tapes and necessary backup software with SCSI Adaptor & Cable to be provided to connect LTO to NAS box. 2 Cleaning Cartridges to be provided also.	
17	Operating System	Microsoft Windows 2008 Storage Server (NAS optimized) including powered OS drivers	
18	Warranty	OEM onsite , labour , parts warranty for the entire lease period	

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Item Name		Server 2-Way	
Item Code		SR01H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Mounting	Rack Models	
3	Height	Max 2U	
4	Processor	Intel Xeon Quad Core 5630, 2.53GHz, 5.86GT/sec QPI	
5	No. of Processors	Two (2)	
6	Chip Set	Intel 5500 family chipset	
7	CPU Cache	12MB L3 Cache	
8	RAM	24GB DDR3 1066 MHz expandable to 48GB.	
9	Extension slots	4 or more PCI-X / PCI-Express slots (with at least 2 PCI-E x8 slot for SAN connectivity)	
10	HDD	6 x 146 GB or higher SFF hot Pluggable SAS 10K rpm	
11	Internal HDD bays	6 or more hot plug drive bays	
12	DVDROM	8x or higher DVD-CDRW Combo Drive	
13	Raid Controller	2 Nos. of 3G SAS RAID Controller, each with 256 MB battery backed cache	
14	LAN Card	4 Nos. of separate 10/100/1000 Ethernet Cards (with atleast 2 on board)	
15	Power Supply	Should come with Hot Pluggable & Redundant Power Supply	
16	Fans	Hot pluggable redundant fans	
17	Management Software	Management software having following features provided with each server: 1)OS independent remote management capabilities. 2)Provide proactive notification of actual or impending component failure alerts. 3)Inventory management (H/W & S/W) 4)Remote software deployment 5)Remote patch deployment	

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Item Name		Server 2-Way	
Item Code		SR01H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
18	OS	Red Hat Linux Advanced Server 5.0 or latest (with server virtualization capability) , MS Windows 2008 Enterprise Edition Server or latest (with server virtualization capability)	
19	Certifications	For OEM : ISO 9001 (Latest version)	
		ERTL / FCC - EMC class B	
		Latest version of IEC-60950-1 / IS 13252 / UL-60950	
		ACPI (Latest Version) compliant	
		RoHS compliant	
20	Warranty	OEM onsite , labour , parts warranty for the entire lease period	

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Item Name		Blade Server	
Item Code		SR02H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Mounting	Blade Mount (Blade Optimized)	
3	Processor	Intel Xeon Quad Core 5630, 2.53GHz, 5.86GT/sec QPI	
4	No. of Processors	Two (2)	
5	Chipset	Intel 5500 family chipset	
6	CPU Cache	12MB L3 Cache	
7	Memory	16 GB DDR3 expandable to 32 GB	
8	PCI Expansion slots	2 or more PCI-E/PCI-X slots	
9	HDD	2 x 300GB hot Pluggable SAS 10K RPM	
10	Internal HDD bays	2 hot pluggable drive bays or higher	
11	Raid Controller	Integrated hardware SAS RAID controller supporting RAID 1	
12	NIC	Embedded 2 No.s Multifunction Gigabit Network Adapters with TCP/IP Offload Engine + 1 dedicated port for remote management	
13	Management	Server OEM Browser based Management Software for Monitoring, Managing and Configuring Servers. The management support Query based monitoring of the server components. Support for heterogeneous operating environments - Microsoft Windows . Linux.	
14	Certifications	For OEM : ISO 9001 (Latest version)	
		ERTL / FCC - EMC class B	
		Latest version of IEC-60950-1 / IS 13252 / UL-60950	
		ACPI (Latest Version) compliant	
		RoHS compliant	
15	Warranty	OEM onsite , labour , parts warranty for the entire lease period	

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Item Name		RISC / EPIC Server	
Item Code		SR03H	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
1	Make & Model		
2	Mounting	Rack Mount	
3	Processor	8 Nos. of 64 bit Dual Core 1.5 GHz RISC/EPIC Processors.	
4	Cache	Minimum 20 MB (L1+L2+L3)	
5	RAM	32 GB DDR3 expandable to 128 GB	
6	Extension slots	10 or more PCI-X / PCI-Express slots	
7	HDD	Minimum 1 TB internal raw storage with SFF hot Pluggable SAS or SCSI 15K rpm	
8	DVDROM	8x or higher DVD-CDRW Combo Drive	
9	Raid Controller	2 Nos. of 3G SAS RAID Controller, each with 256 MB battery backed cache	
10	Network Interface Cards	4 Nos. of separate 10/100/1000 Ethernet Cards, each having dual ports. 4 Nos. of separate 4Gbps Fibre Cards, each having dual ports.	
11	Power Supply	Should come with Hot Pluggable & Redundant Power Supply	
12	Fans	Hot pluggable redundant fans	
13	Operating System	Microsoft Windows Server 2008 / Redhat Enterprise Linux 5 or latest / Unix	

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Item Name		RISC / EPIC Server	
Item Code		SR03H	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
14	Management Software	Management software having following features should be provided with each server: 1)Partitioning. 2)Switching of processors between partitions. 3)Switching of RAM between partitions. 4)Realtime performance monitoring.	
15	Certifications	For OEM : ISO 9001 (Latest version)	
		ERTL / FCC - EMC class B	
		Latest version of IEC-60950-1 / IS 13252 / UL-60950	
		ACPI (Latest Vesion) compliant	
		RoHS compliant	
16	Warranty	OEM onsite , labour , parts warranty for the entire lease period	

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Item Name		Fault Tolerant Server	
Item Code		SR04H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Mounting	Rack Models	
3	Height	Max 4U	
4	Processor	Intel® Xeon® processor X5570, 2.93 GHz or higher	
5	No. of Processors	Two (2) per CRU	
6	Chip Set	Intel 5500 family chipset or higher	
7	CPU Cache	8 MB Cache or higher	
8	RAM	32 GB DDR3 1066 MHz expandable to 64GB.	
9	Extension slots	4 or more PCI-X / PCI-Express slots (with at least 2 PCI-E x8 slot for SAN connectivity)	
10	HDD	6 x 146 GB or higher SFF hot Pluggable SAS or SCSI 15K rpm	
11	Internal HDD bays	16 SAS 2.5" (8 per CRU)	
12	DVDROM	8x DVD-R/W or higher	
13	Raid Controller	RAID 1 across CRUs	
14	LAN Card	4 Nos. of separate 10/100/1000 Ethernet Cards (with atleast 2 on board)	
15	Power Supply	Should come with Hot Pluggable & Redundant Power Supply	
16	Fans	Should come with Hot pluggable redundant fans	
17	Management Software	Management software having following features provided with each server: 1)OS independent remote management capabilities. 2)Provide proactive notification of actual or impending component failure alerts. 3)Inventory management (H/W & S/W) 5)Remote patch deployment	

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Item Name		Fault Tolerant Server	
Item Code		SR04H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
18	OS	Red Hat Linux Advanced Server 5.0 or latest (with server virtualization capability) , MS Windows 2008 Enterprise Edition Server or latest (with server virtualization capability)	
19	Certifications	For OEM : ISO 9001 (Latest version)	
		ERTL / FCC - EMC class B	
		Latest version of IEC-60950-1 / IS 13252 / UL-60950	
		ACPI (Latest Version) compliant	
		RoHS compliant	
20	Warranty	OEM onsite , labour , parts warranty for the entire lease period	

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Item Name		Layer 2 Switch - 24 Ports	
Item Code		NS01H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Ports	The offered switch should have following ports: 24 Nos. of 10/100/1000Mbps Ethernet ports 2 Nos. of 1Gig. Slots for SFP based modules	
3	Forwarding Bandwidth	85 Gbps or more	
4	Throughput	40 Mpps or More for 64 Bytes Packets	
5	Standards & Protocol Support	The switch should support following standards & protocols: 1) 802.1Q VLAN 2) 802.1p Priority & DSCP 3) 802.1D Spanning Tree Protocol 4) 802.1w (Rapid Spanning Tree Protocol) 5) 802.1s (Multiple Spanning Tree protocol) 6) 802.3x Flow Control 7) 802.1x Authentication 8) VLAN Trunking Protocol 9) Dynamic Trunking Protocol (DTP) 10) RADIUS 11) Link Aggregation Control Protocol (LACP) 12) DHCP Server & DHCP Relay 13) Network Time Protocol (NTP) 14) SPAN & RSPAN 15) SSH 16) SNMP v1, SNMP v2c & SNMP v3 17) Telnet & TFTP 18) IPv6	

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Item Name		Layer 2 Switch - 24 Ports	
Item Code		NS01H	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
6	Security & Performance Features Required	Port Security, Portfast, BPDU Guard, Root Guard	
7	Stacking support	Should support stacking for atleast 20 Gbps	
8	Software	The offered switch should have the latest operating system supporting all the above features, standards & protocols.	
9	Sustainability	Should be able to move switch ports to low power state when not in use	
10	Manageability	Should be managable through a standard web browser & Command Line Interface. USB storage for file backup, distribution, and simplified operations	
11	Warranty	OEM onsite, labour, parts warranty for the entire lease period	

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Item Name		Layer 2 Switch - 48 Ports	
Item Code		NS02H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Ports	The offered switch should have following ports: 48 Nos. of 10/100/1000Mbps Ethernet ports 4 Nos. of 1Gig. Slots for SFP based modules	
3	Forwarding Bandwidth	85 Gbps or more	
4	Throughput	75 Mpps or More for 64 Bytes Packets	
5	Standards & Protocol Support	The switch should support following standards & protocols: 1) 802.1Q VLAN 2) 802.1p Priority & DSCP 3) 802.1D Spanning Tree Protocol 4) 802.1w (Rapid Spanning Tree Protocol) 5) 802.1s (Multiple Spanning Tree protocol) 6) 802.3x Flow Control 7) 802.1x Authentication 8) VLAN Trunking Protocol 9) Dynamic Trunking Protocol (DTP) 10) RADIUS 11) Link Aggregation Control Protocol (LACP) 12) DHCP Server & DHCP Relay 13) Network Time Protocol (NTP) 14) SPAN & RSPAN 15) SSH 16) SNMP v1, SNMP v2c & SNMP v3 17) Telnet & TFTP 18) IPv6	

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Item Name		Layer 2 Switch - 48 Ports	
Item Code		NS02H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
6	Security & Performance Features Required	Port Security, Portfast, BPDU Guard, Root Guard	
7	Stacking support	Should support stacking for atleast 20 Gbps	
8	Software	The offered switch should have the latest operating system supporting all the above features, standards & protocols.	
9	Sustainability	Should be able to move switch ports to low power state when not in use	
10	Manageability	Should be manageable through a standard web browser & Command Line Interface. USB storage for file backup, distribution, and simplified operations	
11	Warranty	OEM onsite, labour, parts warranty for the entire lease period	

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Item Name		Layer 3 Switch (Type -I)	
Item Code		NS03H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Ports	The offered switch should have following ports:	
		24 Nos. of 10/100/1000Mbps Ethernet ports	
		4 Nos. of 1Gig. Slots for SFP based modules	
3	Forwarding Bandwidth	155 Gbps or More	
4	Throughput	15 Mpps or More	
5	Standards & Protocol Support	<p>The switch should support following standards & protocols:</p> <p>1) 802.1Q VLAN</p> <p>2) 802.1p Priority & DSCP</p> <p>3) 802.1D Spanning Tree Protocol</p> <p>4)802.1w (Rapid Spanning Tree Protocol)</p> <p>5) 802.1s (Multiple Spanning Tree protocol)</p> <p>6) 802.3x Flow Control</p> <p>7) 802.1x Authentication</p> <p>8) VLAN Trunking Protocol</p> <p>9) Dynamic Trunking Protocol (DTP)</p> <p>10) RADIUS</p> <p>11) Link Aggregation Control Protocol (LACP) as per IEEE 802.3ad</p> <p>12) DHCP Server & DHCP Relay</p> <p>13) Network Time Protocol (NTP)</p> <p>14)SPAN & RSPAN</p> <p>15) SSH</p> <p>16)SNMP v1, SNMP v2c & SNMP v3</p> <p>17) Telnet & TFTP</p> <p>18) IPV6</p>	

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Item Name		Layer 3 Switch (Type -I)	
Item Code		NS03H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
6	IP Routing Support	Should support RIPv1, RIPv2, OSPF, OSPF V3, BGP4, Policy Based Routing (PBR), Inter-VLAN routing, VRRP or equivalent, IPv6, etc. VRF Lite support to enable network with overlapping IP addresses	
7	Security & Performance Features Required	Port Security, Portfast, BPDU Guard, Root Guard, hardware encryption on all access ports.	
8	Software	The offered switch should have the latest operating system supporting all the above features, standards & protocols.	
9	Power	Should support dual redundnat power supply. RPS should be internal to the switch.	
10	Manageability	Should be managable through a standard web browser & command line interface. Should have port for Out of band management	
11	Warranty	OEM onsite, labour, parts warranty for the entire lease period	

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Item Name		Layer 3 Switch (Type -II)	
Item Code		NS04H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Ports	The offered switch should have following ports: 12 Nos. of 10/100/1000Mbps Slots for SFP based modules	
3	Forwarding Bandwidth	30 Gbps or More	
4	Throughput	15 Mpps or More for 64 Bytes Packets	
5	Standards & Protocol Support	The switch should support following standards & protocols: 1) 802.1Q VLAN 2) 802.1p Priority & DSCP 3) 802.1D Spanning Tree Protocol 4)802.1w (Rapid Spanning Tree Protocol) 5) 802.1s (Multiple Spanning Tree protocol) 6) 802.3x Flow Control 7) 802.1x Authentication 8) VLAN Trunking Protocol 9) Dynamic Trunking Protocol (DTP) 10) RADIUS 11) Link Aggregation Control Protocol (LACP) as per IEEE 802.3ad 12) DHCP Server & DHCP Relay 13) Network Time Protocol (NTP) 14)SPAN & RSPAN 15) SSH 16)SNMP v1, SNMP v2c & SNMP v3 17) Telnet & TFTP 18) Jumbo Frame support 19) IPv6 unicast and multicast forwarding in hardware	

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Item Name		Layer 3 Switch (Type -II)	
Item Code		NS04H	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
6	IP Routing Support	Should support RIPv1, RIPv2, OSPF, OSPF V3, BGP4, Policy Based Routing (PBR), Inter-VLAN routing, VRRP or equivalent, IPv6, etc. VRF Lite support to enable network with overlapping IP addresses	
7	Security & Performance Features Required	Port Security, Portfast, BPDU Guard, Root Guard	
8	Software	The offered switch should have the latest operating system supporting all the above features, standards & protocols.	
9	Manageability	Should be manageable through a standard web browser & command line interface.	
10	Warranty	OEM onsite, labour, parts warranty for the entire lease period.	

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Item Name		Wireless Access Point	
Item Code		NS07H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Wireless Standard	Should be IEEE 802.11a/b/g/n compliant.	
3	Data Transfer Rate	Should provide minimum 200 Mbps data transfer rate.	
4	No. of Channels Supported	Should support minimum 20 non-overlapping channels	
5	Uplink	Autosensing 10/100/1000 Base-T Ethernet	
6	Mode of Operation	Should have the capability of operating in autonomous mode and in centralized controller based environment.	
7	Software	Should come with the latest operating system.	
8	Management	Should support Secure Shell (SSH) Protocol, Secure HTTP (HTTPS), Trivial File Transfer Protocol (TFTP), FTP, Telnet, console port, SNMP MIB I and MIB II	
9	Authentication	Should support the following standards for 802.1x authentication: Protected EAP/EAP-MSCHAPv2, EAP-FAST, EAP-TLS	
10	RF Management	Should provide RF management to automatically adjust Access Point power and channel settings to overcome interference and signal coverage problems.	
11	Encryption	Should support AES, TKIP, WPA, WPA2 encryption algorithms.	
12	Power	Should have PoE feature and should also have a provision of external power supply.	
13	WiFi Certification	Wi-Fi Protected Access (WPA) and WPA 2, 802.1x authentication.	
14	Antenna	Should come with minimum 5 antenna for different frequency bands to provide extended range.	
15	Warranty	OEM onsite, labour, parts warranty for the entire lease period	

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Item Name		Network Security Device	
Item Code		NS08H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	System	Should provide firewall, SSL & IPSEC VPN & intrusion prevention features in a single device.	
3	Ports	The device should have following integrated ports:	
		Min. 4 Nos. of 100/1000 BASE-T Ethernet ports	
4	VLAN Interfaces (802.1q)	100 or higher	
5	RAM	512 MB DDR or higher	
6	Flash Memory	64 MB or higher	
7	Routing	RIPv1/v2, OSPF, Static Routes, Multicast	
8	Throughput	400Mbps or higher	
9	High availability Support	Should have support for Active/Active and Active/passive stateful failover	
10	Maximum Connections	1,00,000 or higher	
11	Application inspection & protection	Should provide application inspection services for applications like HTTP, FTP, SNMP, DNS, SMTP, NFS, LDAP, SIP, SCCP etc. Should be able to block popular peer-to-peer applications like Kaaza, bit torrent, Instant Messaging applications like Yahoo messenger, MSN Messenger etc. Should support TCP stream reassembly and analysis, TCP traffic normalization, TCP packet checksum verification.	

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Item Name		Network Security Device	
Item Code		NS08H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
12	New Connections per second	20,000 or higher	
13	Transparent Firewall	Should provide layer 2 transparent firewalling functionality	
14	Access Control	Should support time based access list to control the usage of applications and resources based on time parameters.	
15	NAT Modes	Should support Static NAT, Dynamic NAT, PAT, etc.	
16	Encryption Standards	Should provide DES, 3DES, AES (128, 192, 256 bit) encryption. (Any licences if required should be supplied along with device).	
17	Authentication Standards	Should provide MD-5 & SHA-1 authentication	
18	IPSec VPN Services	Should provide Site-to-Site and Remote Access IPSec VPN services. Should come with minimum 500 IPSec VPN licenses.(min 10 no of SSL licences)	
19	SSL VPN Services	Should provide Remote Access SSL based VPN services from day one.	
20	VPN Throughput	200 Mbps or higher	
21	Intrusion Prevention	Should come with integrated intrusion prevention features based on attack signature database of at least 1500 signatures and support for online automatic signature & variant updation for entire lease period.	

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Item Name		Network Security Device	
Item Code		NS08H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
22	Attack Protection Features	Should be able to inspect and protect against all the major attacks based on protocols like TCP,UDP and ICMP. Should protect the network from known and unknown network and application layer attacks, Reconnaissance attacks, DoS attacks, DDOS attacks, malwares, worms, viruses, Trojan horses, spywares etc. Should also provide protection from ping sweep, port scanning, SQL Injection, <u>Cross Site Scripting and Brute Force attacks.</u>	
23	Action Response	Should be able to respond to attacks in the following ways: 1) Generate an alarm 2) Log the alarm event 3) Record the session to an IP session log 4) Reset TCP connections 5) <u>Deny network access</u>	
24	Intrusion Prevention System Operation Modes	The intrusion prevention system should be able to operate in inline mode and in promiscuous mode for trafic inspection.	
25	Management & Monitoring	Should be configurable usign CLI, GUI interface and central management software. Should support SNMP, SSH, Telnet, HTTP(s)	
26	Operating System	The offered device should have the latest operating system supporting all the above features, standards & protocols.	
27	Warranty	OEM onsite, labour, parts warranty for the entire lease period	

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Item Name		Router - Type I	
Item Code		NS09H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model Offered		
2	Router Architecture	The router architecture should have following features	
		Should be based on high speed multicore RISC processor	
		Should be a multi-service capable router supporting data, voice and video.	
3	Interface Modules Supported	Fast Ethernet ports 10/100Mbps, V.35 WAN interfaces, Upto 4xE1 G.703 interfaces, 1 E3 interface, ISDN Interface, Console interface. Should support Voice interfaces like FXS, FXO, E&M, E1. Should support onboard integration modules for providing hardware based VPN encryption and intrusion prevention capabilities. Should also support Network Modules for providing services like WAN Optimization, Network Admission Control and network analysis	
4	Ports Required	The following ports should be available from day one.	
		2 Nos. of Layer 3 10/100Mbps Ethernet Ports	
		4 Nos. of Layer 3 10/100/1000 Mbps Ethernet Ports	
		1 No. Console Port	
5	Memory Required	1 GB DRAM or higher	
6	Flash Memory Required	256 MB or higher	
7	Router Functional Requirements	The router should come with the latest Operating System. The following features should be available from day one.	
		Should support Standard Access Lists, Extended Access Lists & Named Access Lists.	

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Item Name		Router - Type I	
Item Code		NS09H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
		Should support Route Maps, Class Maps & Policy Maps.	
		Class of Service, Prioritization, Policy based Routing and Low Latency Queuing, NBAR, etc.	
		Network Address Translation (Static NAT, Dynamic NAT, PAT)	
		Should be capable of supporting IPSec, SSL & Dynamic multipoint VPN on same hardware	
8	Routing Protocol Support Required	RIP (V1 & V2) , OSPF, BGP4, Policy based Routing, PPP, Multilink PPP, IPv6	
9	Multicasting and QoS	The router should have following multicasting and QoS features:	
		Resource Reservation Protocol (RSVP)	
		Support for QoS	
		Support for WFQ, CAR , IP Precedence, DSCP	
		Internet Group Management Protocol (IGMPv3)	
		Multicast Routing support such as DVMRP, Protocol Independent Multicast (PIM) or MOSPF	
10	Performance Requirements	Should have packet forwarding rate of at least 300 Mbps with services enabled	
11	IP Telephony Support	Should be future scalable to support call processing and voicemail capabilities for 400 users. Should support onboard DSPs slots to provide support for analog voice, digital voice, conferencing, transcoding, and Secure Real Time Protocol (sRTP). Should also support fallback mechanism for providing connectivity for IP Telephony for remote sites.	

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Item Name		Router - Type I	
Item Code		NS09H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
12	Management Features		
		Should support Telnet, SSH, TFTP and BOOTP protocols.	
		Should support SNMP V1 & SNMP V2c & SNMP v3 for remote management.	
		Should be configurable using CLI & GUI interface.	
		Should support NTP & RADIUS protocols	
		Should support syslog logs.	
13	Routing engine upgrade	Should support upgradeable routing engine to enhance processing capability in the future.	
14	High Availability	Should support Redundant power supply internal to router for high availability	
15	Sustainability	Should be able to control power to the modules based on the time of day.	
16	Operating System	Should come with the latest operating system supporting the above features.	
17	Mounting	The offered router should be rack mountable	
18	Accessories	Should come with all necessary power cords, adapters, data cables, connectors, CDs, manuals, brackets accessories, etc, required for installation and commissioning of the equipment.	
19	Warranty	OEM onsite, labour, parts warranty for the entire lease period	

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Item Name		Router - Type II	
Item Code		NS10H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model Offered		
2	Router Architecture	The router architecture should have following features	
		Should be based on high speed multicore RISC processor	
		Should be a multi-service capable router supporting data, voice and video.	
3	Interface Modules Supported	Fast Ethernet ports 10/100Mbps, V.35 WAN interfaces, Upto 4xE1 G.703 interfaces, 1 E3 interface, ISDN Interface, Console interface. Should support Voice interfaces like FXS, FXO, E&M, E1. Should support onboard integration modules for providing hardware based VPN encryption and intrusion prevention capabilities. Should also support Network Modules for providing services like WAN Optimization, Network Admission Control and network analysis.	
4	Ports Required	The following ports should be available from day one.	
		2 Nos. of V.35 Serial Ports	
		3 Nos. of Layer 3 10/100/1000 Mbps Ethernet Ports	
		1 No. of Layer 3 10/100 Mbps Ethernet port	
		1 No. Console Port	
5	Memory Required	512MB DRAM or higher	
6	Flash Memory Required	256MB or higher	

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Item Name		Router - Type II	
Item Code		NS10H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
7	Router Functional Requirements	The router should come with the latest Operating System. The following features should be available from day one.	
		Should support Standard Access Lists, Extended Access Lists & Named Access Lists.	
		Should support Route Maps, Class Maps & Policy Maps.	
		Class of Service, Prioritization, Policy based Routing and Low Latency Queuing, NBAR, etc.	
		Network Address Translation (Static NAT, Dynamic NAT, PAT)	
		Should be capable of supporting IPSec, SSL & Dynamic multipoint VPN on same hardware	
8	Routing Protocol Support Required	RIP (V1 & V2) , OSPF, BGP4, Policy based Routing, PPP, Multilink PPP, IPv6	
9	Multicasting and QoS	The router should have following multicasting and QoS features:	
		Resource Reservation Protocol (RSVP)	
		Support for QoS	
		Support for WFQ, CAR , IP Precedence, DSCP	
		Internet Group Management Protocol (IGMPv3)	
		Multicast Routing support such as DVMRP, Protocol Independent Multicast (PIM) or MOSPF	
10	Performance Requirements	Should have packet forwarding rate of at least 70 Mbps with services enabled	

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Item Name		Router - Type II	
Item Code		NS10H	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
11	IP Telephony Support	Should be future scalable to support call processing and voicemail capabilities for 150 users. Should support onboard DSPs slots to provide support for analog voice, digital voice, conferencing, transcoding, and Secure Real Time Protocol (sRTP). Should also support fallback mechanism for providing connectivity for IP Telephony for remote sites.	
12	Management Features	Should support Telnet, SSH, TFTP and BOOTP protocols.	
		Should support SNMP V1 & SNMP V2 for remote management.	
		Should be configurable usign CLI & GUI interface.	
		Should support NTP & RADIUS protocols	
		Should support syslog logs.	
13	Sustainability	Should be able to control power to the modules based on the time of day.	
14	Operating System	Should come with the latest operating system supporting the above features.	
15	Mounting	The offered router should be rack mountable	
16	Accessories	Should come with all necessary power cords, adapters, data cables, connectors, CDs, manuals, brackets accessories, etc, required for installation and commissioning of the equipment.	
17	Warranty	OEM onsite, labour, parts warranty for the entire lease period	

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Item Name		Wireless Access Controller	
Item Code		NS11H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Access Point Support	Should be able to support upto 25 access points with an option to upgrade the same controller to support upto 250 access points	
3	Wireless Standard	Should be IEEE 802.11a/b/g/n compliant.	
4	Data Transfer Rate	Wire speed for 802.11n networks	
5	Uplink	Autosensing 1000 Base-T Ethernet	
6	Software	Should come with the latest operating system.	
7	Management	Should support SNMP V1, V2c, V3, SNTP, TFTP. Should support web-based (http/https) and CLI (telnet, ssh, serial port) management. It should have Real-time RF Management with Real-time monitoring and analysis	
8	Security	Should support security standards like: 802.11i (WPA2), WPA, WEP, 802.1X with multiple Extensible Authentication Protocol (EAP) types, including Protected EAP (PEAP), EAP with Transport Layer Security (EAP-TLS), EAP with Tunneled TLS (EAP-TTLS), IPSec, Web Authentication. Should have proven security for any enterprise environment with Integrated wireless intrusion protection, including rogue location and containment Integrated with AAA services. Should support line-rate encryption between access points and controllers.	
9	Guest Access	Should provide centralized secure guest access provisioning and administration.	
10	WiFi Certification	Wi-Fi Protected Access (WPA) and WPA 2	

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Item Name		Wireless Access Controller	
Item Code		NS11H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
11	Redundancy	Should have features to avoid Single Point of Failure by ensuring Access Point Redundancy. In case of failure of an access point, other access points should automatically increase their power settings to ensure the coverage is maintained, resulting in self-healing networks.	
12	Sustainability	Should be able turn off access point radios to reduce power consumption during off peak hours.	
13	High Availability	Should support redundant power supply for continuous operations	
14	Warranty	OEM onsite, labour, parts warranty for the entire lease period	

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Item Name		Server Load Balancer	
Item Code		NS12H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Architecture	Should have ASICS Based Switch Architecture	
		Should have 12 x 10/100/1000 Mbps copper ports + 4GBIC slots	
		Should have minimum 4 GB RAM	
		Support for 8M Concurrent L4 TCP connections	
		Should provide minimum 1Gbps L7 throughput and should have a provision to be upgraded to 4 Gbps L7 throughput without changing the hardware.	
		Should support Dynamic routing protocols like OSPF, RIP1, RIP2	
3	Load Balancing Features	Minimum support for 100 Servers & Maximum for 3000	
		Should support load balancing algorithms	
		Least amount of Bytes	
		a) Least number of users/session.	
		b) Cyclic.	
		c) weighted Cyclic	
		d) SNMP Parameters, like Server CPU utilisation etc	
		e) Should support Client NAT & Server NAT	
		In case of Server / Application failure device should detect it in not more than 30 seconds	
		In case of Server failure traffic should be diverted to another Server automatically	
		Should support following content based Load balancing features	
		a) HTTP Header based redirection	
		b) URL-Based Redirection	
		c) Browser Type Based Redirection	
		d) Preferential Treatment (Cookie-Based)	

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		e) Should Support session persistency Based on: IP, DNS, Cookie-based, URL Parameters, SSL Session ID-based etc	
4	Application Accelerations	Device should support up to 2000 SSL Transactions per second and should have provision to be upgraded to 10000 SSL TPS with license upgrade.	
		Device should support Industry standard Compression algorithm as GZIP and Deflate algorithms. Device should support compression throughput of 100 Mbps and scalable to 250 Mbps .	
5	Server Management Feature	Should support Gracefull shutdown of Servers	
		Should support Gracefull Activation of Servers	
		Should able to redirect traffic based on Source IP, Destination IP & TCP PORT	
		Segmentation : Ability to divide single box in to multiple boxes & operate as independantly So single device can be used to load balance multiple DMZ servers without compromising network security	
6	Health Monitoring	Should provide individual health check for each Server & Application	
		Should be able to do health check on protocols like HTTP, SMTP, POP etc	
		Should able to check the health of Server OS, Application & contents as well	
		Should provide AND , OR mechanism between health check	
		Should provide GUI interface to configure any health check	
7	Redundancy	Should Support VRRP	
		Should support transparent failover between 2 devices (if any)	
8	Global Server Load Balancing support in same device	Should support DNS based redirection	
		Should support HTTP redirection	
		Should support Global Triangulation	

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		Should support RTSP Redirection	
		Should support VIP advertisement via Dynamic Routing	
9	Device Management & Reporting	Should provide GUI interface for configuration & reporting	
		Should provide HTTP / HTTPS interface management	
		Should provide SSH / Telnet / CLI interface	
		Should support SNMP V1, V2c, V3	
		Should provide Detailed LIVE reporting for traffic on each server / Farm	
		Should provide detailed historic reporting for each server / farm traffic	
10	Warranty	OEM onsite, labour, parts warranty for the entire lease period	

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Item Name		Link Load Balancer	
Item Code		NS13H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Architecture	Should have ASICS Based Switch Architecture	
		Should have 12 x 10/100/1000 Mbps copper ports + 4 GBIC slots	
		Should have minimum 4GB RAM	
		Support for 8M Concurrent L4 TCP connections	
		Should provide minimum 1 Gbps throughput and should have a provision to be upgraded to 4 Gbps L7 throughput without changing the hardware.	
		Should support Dynamic routing protocols like OSPF, RIP1, RIP2	
2	Load Balancing Features	Minimum support for 10 internet links	
		Should provide Load balancing for inbound & outbound traffic	
		Selection of shortest path to dest based on load/Hops/response time	
		Should support load balancing algorithms	
		a) Least amount of Bytes	
		b) Least number of users/session.	
		c) Cyclic.	
		d) weighted Cyclic	
		e) SNMP Parameters, like router CPU utilisation etc	
		Should support Static NAT & Dynamic NAT	
		In case of link failure device should detect it in not more than 30 seconds	
		Should support port mirroring	
		Should support port aggregation	
3	Link Management Feature	Should able to redirect traffic based on Source/Destination IP & port	
		Should have an option to define inbound/outbound Kbps limit of throughput of any given link	
		Should provide details of client routed to each link with IP & port details	
4	Health Monitoring	Shall provide individual health check for each link	

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		Should do health check on protocols like HTTP, SMTP, POP3, DNS, Ping, FTP etc	
		Should provide AND , OR mechanism between health check	
5	Redundancy	Should Support VRRP	
		Should support transparent failover between 2 devices	
6	Support for Bandwidth Managament support for future requirement	Should support bandwidth management based on any L3-L7 information	
		Should support CBQ, WRR, RED mechanism for QoS	
		Should support Minimum & Maximum bandwidth allocation limit for traffic shaping	
		Should support Two-Way bandwidth management	
		Should support traffic classification on the basis of layer-3 to layer-7 information	
		Should able to classify & limit P2P bandwidth & protocol like Kazaa, Bit-Torrent, eDonkey, etc	
		Should also support to define bandwidth per session in any gven policy defined on source/destination/application	
7	Device Management & Reporting	Should provide GUI interface for configuration & reporting	
		Should provide HTTP / HTTPS interface management	
		Should provide SSH / Telnet / CLI interface	
		Should support SNMP V1, V2c, V3	
8	Warranty	OEM onsite, labour, parts warranty for the entire lease period	

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Item Name		Print Server	
Item Code		MS01L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Network Interface	10/100 Mbps Ethernet Interface with autosensing dual speed minimum TCP/IP support	
3	Ports	2 parallel and 1 USB	
4	Bidirectional communication	Should have Bidirectional communication	
5	Remote management	Should have Telnet support	
6	OS Compatibility	Windows XP,Vista, 7, Redhat Linux	
7	Warranty	OEM onsite, labour, parts warranty for the entire lease period	

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Item Name		42U Rack	
Item Code		MS02L	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Mounting	Floor Standing	
3	Height	42 U	
4	Dimensions (Width X Depth)	800 x 1000 mm	
5	Doors	Lockable front door of perforated steel & lockable vented rear door of steel	
6	Side Panels	Side Panels with Slam Latches and Key Locks	
7	Top & Bottom Covers	Top & Bottom Covers with cable entry gland plates	
8	Stationary Shelves	3 No. of Stationary Shelves	
9	Sliding Rotary Keyboard Tray	1 No. of 19" Sliding Keyboard Tray	
10	Equipment Mounting Angles	One pair of Equipment Mounting Angles to provide 19" mounting positions	
11	Cooling Fans	Min. 4 Nos. of Cooling Fans (230VAC, 90 CFM) in top mounted Fan Housing Unit	
12	Mounting Hardware Packet	Captive Mounting Hardware (10 Pkts)	
13	PDU	Min. Two independent & redundant vertical or horizontal power strips each containing 10 Nos. of 5/15A IEC320 C14 & 2 normal type sockets, a fuse, indicator lamp and 15A Switch, <u>nema type connector (plug- socket set)</u>	
14	Cable Management accessories	Two horizontal , two vertical cable managers & two vertical Cable Channels with cabling loops	
15	Castors	4 castors with foot operated brakes	
16	Earthing Kit	Copper earthing kit (bars, straps, continuity kit, etc) to be provided.	
17	Color	Preferred Graphite black	

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Item Name		42U Rack	
Item Code		MS02L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
18	Warranty	OEM onsite , labour , parts warranty for the entire lease period	

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Item Name		21U Rack	
Item Code		MS03L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
1	Make & Model		
2	Mounting	Floor Standing	
3	Height	21 U	
4	Dimensions (Width X Depth)	800 x 1000 mm	
5	Doors	Lockable front door of toughened tinted glass or perforated steel & lockable vented rear door of steel	
6	Side Panels	Side Panels with Slam Latches and Key Locks	
7	Top & Bottom Covers	Top & Bottom Covers with cable entry gland plates	
8	Stationary Shelves	2 No. of Stationary Shelves	
9	Sliding Rotary Keyboard Tray	1 No. of 19" Sliding Keyboard Tray	
10	Equipment Mounting Angles	One pair of Equipment Mounting Angles to provide 19" mounting positions	
11	Cooling Fans	Min. 4 Nos. of Cooling Fans (230VAC, 90 CFM) in top mounted Fan Housing Unit	
12	Mounting Hardware Packet	Captive Mounting Hardware (10 Pkts)	
13	PDU	Min. Two independent & redundant vertical or horizontal power strips each containing 10 Nos. of 5/15A IEC320 C14 & 2 normal type sockets, a fuse, indicator lamp and 15A Switch	
14	Cable Management accessories	Two horizontal , two vertical cable managers & two vertical Cable Channels with cabling loops	
15	Castors	4 castors with foot operated brakes	
16	Earthing Kit	Copper earthing kit (bars, straps, continuity kit, etc) to be provided.	
17	Color	Preferred Graphite black	
18	Warranty	OEM onsite , labour , parts warranty for the entire lease period	

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Item Name		15U Rack	
Item Code		MS04L	
S.No.	Parameter / Feature	Detailed Specifcations	Vendor Compliance (Yes/No)
1	Make & Model		
2	Specification	A wall mount 15U double section rack of MS Steel with glass front door, adjustable 19" rails in the front and rear, Top and bottom cable entry facility, front section with glass door and lock, 2 lightweight MS shelves, 1 No. of AC Power Ditribution Box with 5 Nos of 5A sockets.	
3	Warranty	OEM onsite , labour , parts warranty for the entire lease period.	

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Item Name		Blade Server Chassis	
Item Code		MS05H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Form Factor	Upto 10 U Form factor per chassis with all redundancy features (Hard Drives, Power, Cable Management).	
3	Power Supplies & Fans	The chassis should be fully populated with redundant hot-swap power supplies & fans.	
4	Processor Support	The enclosure offered should support Intel Xeon Dual Core and Quad core based Blade servers within the same enclosure.	
5	Management Software	Should come with web based management software for inventory control, power management, remote image based OS deployment and Performance Management	
6	Ethernet Switches	Should come with two hot swappable redundant cisco compatible ethernet switches, each having at least 4 gigabit ethernet uplink ports and adequate internal gigabit ethernet ports to support fully populated chassis. In addition to 4 uplink ports, each switch should come with at least 1 (one) 10Gbps external port. It should have provision to configure VLANs.	
7	SAN Connectivity	Necessary Fibre Pass Through Units to be configured to enable connectivity to the external SAN switch for the Blade servers required to be on the SAN	
8	KVM/CD/USB	To be enabled Virtually over IP for Remote Access or Provided Locally	
9	Warranty	OEM onsite , labour , parts warranty for the entire lease period	

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Item Name		Tape Library	
Item Code		MS06H	
S.No.	Parameter / Feature	Detailed Specifications	Vendor Compliance (Yes/No)
1	Make & Model		
2	Drives	Should have 2 Fibre LTO Gen 4 drives or higher	
3	Cartridge Slots	Should have minimum 48 cartridge slots.	
4	Bar Code Reader	Should have internal bar code reader to label and identify the data tapes.	
5	Mounting	Should be rack mount.	
6	Connectivity	Should come with two nos. of SAS/SCSI ports & necessary SAS/SCSI cards & cables for connecting with backup server.	
7	Management	Should come with a web management software to monitor and manage the library remotely through a standard web browser.	
8	Backup Software	A backup software such as (Tivoli / Veritas / Legato / Data Protector/ Backbone) capable of taking back up of minimum 16 servers including 4 Oracle Database Servers, should be provided. The backup software should be able to take LAN based backup of linux, unix and windows based servers. Include licence for backup on disc upto 1 TB.	
9	Data Cartridges	Should come with 48 data cartridges of 800GB capacity (uncompressed) and 2 cleaning cartridges.	
10	Warranty	OEM onsite , labour , parts warranty for the entire lease period	

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Item Name		Miscellaneous	
Item Code		MS07L-13L	
Item Code	Item Name	Detailed Specifications	Make & model
MS07L	DVD Writer	USB based external DVD Writer with minimum 16x Speed	
MS08H	Ultrium Autoloader	Ultrium Auto Loader (OEM Make) (Rack Mount) with 1 no. of LTO (Generation 4) drive (800/ 1600GB) and min. 7 nos. of media slots with necessary SCSI Controller (to be installed on server) & cable to connect to server. Necessary backup software for automated backup of multiple Windows & Linux servers and 10 media packs & one cleaning cartridge to be provided. The Ultrium Auto Loader must work with Windows 2000/2003/2008 or higher. Red Hat Linux 7.2 or higher & Unix Systems	
MS09L	KVM Switch	A 16 port rack mount KVM switch with integrated LCD monitor, keyboard and mouse (touchpad) and min. 8 ft. length cables for connecting 16 servers. Should comes with necessary rack rails.	
MS10L	UTP Cable Tester	UTP Cable Tester with length measurement feature , Should be able to measure length of all 4 pairs, Should be able show wiremap, Should be able to detect Opens, Shorts, Reversed pairs, Swapped pairs, Split pair faults. Should come with necessary attachments/Carrying case/Batteries/cables, etc. Make Fluke / AMP	
MS11L	Fibre Tester	Fiber tester with features for verifying optical loss and power levels for both singlemode and multimode fiber links, should be able to locate cable faults, connector problems and polarity issues etc, should have automatic wavelength sensor feature, should have memory to store and manage test results, print reports etc . Should come with necessary attachments/Carrying case/Batteries/cables etc. Make Fluke / AMP.	

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Item Name		Miscellaneous	
Item Code		MS07L-13L	
Item Code	Item Name	Detailed Specifications	Make & model
MS12L	Webcam	640 × 480 pixels video and photo resolution. Built-In Microphone. Video up to 30 Frames Per Second. USB 1.1 port or higher. Plug and Play Easily attachable to notebooks and desktops. Automatic audio control. Broad IM Compatibility. Windows 7 Vista XP compatible	
MS13L	VoIP USB Phone	Built-In LCD display with backlight Numeric Keypad Echo-cancellation feature USB 1.1 port or higher. Attached USB cable ERTL/ FCC Class B/CE Windows 7 Vista XP Compatible	

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Item Name		Software
Item Code		SW01H-SW18L
Item Code	Product Discription	
SW01H	Red Hat Enterprise Linux Advance Platform v5 or latest with 5 years subscription and support (for updates & upgrades, telephonic / web support) from the Principal OEM (with media)	
SW02H	Red Hat Enterprise Linux Server v5 or latest with 5 years subscription and support (for updates & upgrades, telephonic / web support) from the Principal OEM (with media)	
SW03H	Microsoft Windows Server Enterprise Edition Lic/SA (Latest Version) with 2 years subscription and support (with media)	
SW04L	Microsoft Windows Server CAL Lic/SA (Latest Version) with 2 years subscription and support	
SW05H	Microsoft System Centre Configuration Manager Server Lic/SA (Latest Version) with 2 years subscription and support (with media)	
SW06L	Microsoft System Centre Configuration Manager Client Management Lic/SA (Latest Version) with 2 years subscription and support	
SW07H	Microsoft System Centre Configuration Manager Server Lic/SA (Latest Version) with 2 years subscription and support (with media)	
SW08H	Microsoft Sharepoint Server Lic/SA with necessary Database Enterprise Edition (Processor License) (Latest Version) with 2 years subscription and support (with media)	
SW09H	Microsoft Sharepoint Server Lic/SA with necessary Database Standard Edition (Processor License) (Latest Version) with 2 years subscription and support (with media)	
SW10L	Microsoft SharePoint Standard CAL Lic/SA (Latest Version) with 2 years subscription and support	
SW11L	Microsoft Sharepoint Enterprise CAL Lic/SA (Latest Version) with 2 years subscription and support	

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Item Name		Software
Item Code		SW01H-SW18L
Item Code	Product Discription	
SW12L	Toad for Oracle (with media)	
SW13L	Adobe Acrobat 9 Pro or Latest (with media)	
SW14L	Adobe Acrobat 9 Pro Extended or Latest (with media)	
SW15L	Adobe Photoshop CS5 (with media)	
SW16L	Adobe Photoshop CS5 Extended (with media)	
SW17L	Adobe Dreamweaver CS5 (with media)	
SW18L	Visual Studio Professional (Latest Version) (with media)	

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Item Name	Network Management Solution	
Item Code	OP01H	
S.No.	Detailed Specifications	Vendor Compliance (Yes/No)
1	The solution must be capable of monitoring both the company's Intranet and Internet servers and devices on a 24-hour basis.	
2	The solution should be able to continuously monitor comprehensive and end-to-end monitoring of all the components in the company's routers, switches, Load Balancer, VPN concentrator, IPS, MultiConferencing Unit for VC (MCU) firewalls, remote access servers, RADIUS servers, Wireless access points, web servers, SMTP/POP3 (email) servers, DNS servers, etc via GUI with multi level topology mapping and in drill down fashion.	
3	The solution's polling interval for each device should be configurable by the administrators, as some devices are critical to the network and should be checked on a very regular basis. Other devices need to be checked much less frequently. Software Should do Real time scanning of devices.	
4	<p>The solution should provide support up to 300 network devices with an option for further scalability*. The proposed solution should therefore be scalable to grow with the BHEL network growth in the future.</p> <p>*: 1) less than or equal to 300 2) between 301 and 500 3) between 501 and 1000 4) more than 1001</p>	

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Item Name	Network Management Solution	
Item Code	OP01H	
S.No.	Detailed Specifications	Vendor Compliance (Yes/No)
5	The solution should support discovery of heterogeneous physical network devices like layer-2 & layer-3 switches, routers & other IP devices. It should also support multiple types of discovery configured using a graphical user interface including the following: <ul style="list-style-type: none"> • IP range discovery • Seed router based discovery - Using route tables and SNMP MIBs 	
6	The solution should be a complete and comprehensive NMS Solution which should be vendor-neutral. It should support both 32 bit and 64bit servers.	
7	The solution should check to make sure each device or resource is functioning correctly, if a device fails, an alert/notification should be sent immediately both via email and sms.	
8	The solution Should support Windows Management Instrumentation (WMI), SNMP, and Port Monitoring.	
9	Supported Database like MIBs should already be there. The solution should come bundled with Oracle or SQL database.	
10	The solution should be able to continuously monitor and shall provide the CPU Utilization, Memory Utilization, Disk Utilization, LAN and WAN Interface Utilization etc. of the devices.	
11	The solution should be able to monitor services like : FTP, HTTP, HTTPS, Radius, Telnet, SSH, Ping, IMAP, POP3, TCP, UDP, SMTP etc.	
13	The solution should have a detailed log file containing all device failures and an alert is required. It should also have a syslog server in built. It should support ICMP and SNMP v2 & v3 based discovery and win event log monitoring	

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Item Name	Network Management Solution	
Item Code	OP01H	
S.No.	Detailed Specifications	Vendor Compliance (Yes/No)
14	The solution Should have Remote administration via the Web Browser. It should support standard browsers like IE, Mozilla, Netscape, Firefox etc. It should support IIS or apache etc, and its management console should be in Windows environment.	
15	The solution should have Role-based Management and Access Control	
16	The solution should provide Uptime & Downtime reports, Bandwidth Utilization, Link Latency reports, Jitter reports, Packet Loss reports, threshold violation reports of various Network elements like Routers, Firewall, Switches, VPN Concentrators, Load Balancers, IPS and overall Network. The report should get exported into excel, pdf, or csv format and can also be made customizable. to be mailed automatically.	
17	The solution should be designed to provide Graphical real time network discovery, topology visualization and Customizable reports. The solution should provide real time monitoring with split second graph and historic graphs too. The reports should be scheduled and should have the option to send via mail	
18	The solution should provide trend analysis and traffic analysis of peak / lean hours/days/months of various links and network elements. It should also provide top N reports regarding Utilization, Latency, IP based and customizable MIR's etc for troubleshooting, diagnosis, analysis and resolution purposes.	
19	The solution should be IETF compliant ipv4 support.	
20	The Principal OEM should provide onsite support for the entire lease period	

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Item Name		Add-Ons		
S.No.	Item Code	Item Name	Additional Component / Part/ Configuration Required	Vendor Compliance (Yes/No)
1	NB01L (A1)	Notebook - General (Higher RAM)	6GB DDR3 1066MHz RAM in place of 3GB DDR3 1066MHz RAM	
2	NB02L (A1)	Notebook - Lightweight Type-I (Higher RAM)	8GB DDR3 1066MHz RAM in place of 4GB DDR3 1066MHz RAM	
3	NB03L (A1)	Notebook -Engineering (Higher RAM)	16GB DDR3 1066MHz RAM in place of 8GB DDR3 1066MHz RAM	
4	PC01L (A1)	PC - General (Higher RAM)	8GB Dual Channel DDR3 RAM 1066 MHz in place of 4GB Dual Channel DDR3 RAM 1066 MHz	
5	PC02L (A1)	Engineering PC (Higher RAM)	12GB dual channel DDR3 RAM 1066MHz in place of 6GB dual channel DDR3 RAM 1066MHz	
6	WS01L (A1)	Graphics Workstation - Type I (Higher RAM)	12GB dual channel DDR3 1066MHz in place of 6GB dual channel DDR3 1066MHz	
7	WS02L (A1)	Graphics Workstation - Type II (Higher RAM)	16 GB dual channel DDR3 1333 MHz in place of 8 GB dual channel DDR3 1333 MHz	
8	WS02L (A2)	Graphics Workstation - Type II (Higher HDD)	2 x 160 GB SSD with RAID 0, 1, 10 with RAID Controller in place of 2 x 300 GB SAS HDD 10K rpm with SAS RAID Controller	

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Item Name		Add-Ons		
S.No.	Item Code	Item Name	Additional Component / Part/ Configuration Required	Vendor Compliance (Yes/No)
9	SR01H (A1)	Server - 2 Way Rack (Higher HDD)	6 x 300GB SFF hot Pluggable SAS 10K rpm in place of 6 x 146GB SFF hot Pluggable SAS 10K rpm	
10	SR01H (A2)	Server - 2 Way Rack (Higher RAM)	48GB DDR3 1066 MHz In place of 24GB DDR3 1066 MHz	
11	SR02H (A1)	Blade Server (Higher RAM)	32GB DDR3 In place of 16GB DDR3	
12	SR04H (A1)	Fault Tolerant Server (Higher HDD)	8 x 146 GB or higher SFF hot Pluggable SAS or SCSI 15K rpm in place of 6 x 146 GB or higher SFF hot Pluggable SAS or SCSI 15K rpm	
13	SR04H (A2)	Fault Tolerant Server (Higher RAM)	64GB DDR3 1066 MHz In place of 32GB DDR3 1066 MHz	
14	MS02L (A1)	42U Rack (Glass Door)	Lockable front door of toughened tinted glass in place of perforated steel front door	
15	MS06H (A1)	Tape Library (With Fibre Ports)	2 Nos. of 4Gbps FC ports in place of SAS/SCSI ports & SAN based backup software licenses for 2 Oracle, 2 Windows & 2 Linux Servers	

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Item Name		Add-Ons		
S.No.	Item Code	Item Name	Additional Component / Part/ Configuration Required	Vendor Compliance (Yes/No)
16	PC01L (A2)	PC (Higher Size TFT) 19" OEM make in place of 17" OEM make	19" TFT (OEM make) with Aspect ratio 5:4 and min. resolution of 1280*1024 TCO 05 compliant in lieu of 17" TFT (OEM make) with Aspect ratio 5:4 and min. resolution of 1280*1024 TCO 05 compliant	
17	SFP01	1000Mbps SFP based SX Module	1000Mbps SFP based SX Module	
18	SFP02	1000Mbps SFP based LX Module	1000Mbps SFP based LX Module	
19	SFP03	1000Mbps Ethernet Module for Network Switches	1000Mbps Ethernet Module for Network Switches	

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