

Revised Technical Specifications for Lot 1 & 1.1 GASS Sector

Item	Specification	Statement of Compliance
	LOT 1. GASS SECTOR	
1.	<p>1 set Branded Desktop Computer (min) i5 8th gen or equivalent, 6 cores / 6 threads, 2.8Ghz base frequency to 4 Ghz max turbo frequency, 9MB cache, 14nm; 1 pc DDR4 2400 memory 8GB (min); 1 pc 3.5" SATA 1TB (min) DVD Writer; VGA port, DVI port, HDMI (optional), Video card (optional); 20" (min) LED, VGA, DVI (optional); USB Keyboard and USB Mouse;</p> <p>Operating System: Licensed Professional, latest 64bit with NTFS file system, for network domain environment;</p> <p>Office Productivity Software: Licensed latest 32-64bit, including word</p>	<p>Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.1(a)(ii) and/or GCC Clause 2.1 (a)(ii).</p>

	<p>processor, spreadsheet, presentation for business;</p> <p>UPS 650VA (min), online type, with surge protection</p>	
2.	<p>4 sets Branded Desktop Computer Processor: (min) intel i3 7th gen or later / equivalent. 2 cores / 4 threads, 3.9Ghz, 3MB cache, 14nm Motherboard: 4 USB ports with 2 USB3 (min), PCIE port, 4 SATA ports (min), Gigabit Ethernet port, 2 memory banks (min) DDR4 support, 8th Gen processor support Memory: 1 pc DDR4 2400 memory 8GB (min) Hard Drive: 1 pc 3.5" SATA 1TB (min) Optical Drive: DVD Writer Video: Built-in, VGA port, DVI port, HDMI (optional) Monitor: 20" (min) LED, VGA, DVI (optional) Input: USB Keyboard and USB Mouse</p> <p>Operating System: Licensed Professional, latest 64bit with NTFS file system, for network domain environment</p> <p>Office Productivity Software: Licensed, latest 32-64bit, including word processor, spreadsheet, presentation for business</p> <p>UPS: 650VA (min), online type, with surge protection</p>	
3.	<p>5 sets Branded Desktop Computer Processor:(min) i5 8th gen or later/equivalent 6 cores/6 threads,3Ghz base frequency to 4.1 GHz turbo frequency 9MB cache,14nm Motherboard: 4USB port with 2USB3(min), PCIE port, 4 SATA ports(min), Gigabit Ethernet port, 2 memory bank(min) DDR4 support, 8th Gen processor support Memory: 1pc DDR4 2400 memory 8GB (min) Hard drive:1 pc 3.5" SATA 1TB(min) Optical Drive: DVD Writer Video: VGA port, DVI Port, HDMI(Optional), Video Card(Optional) Monitor: 20" (min) LED,VGA,DVI (Optional)</p>	

	<p>Input: USB Keyboard and USB mouse</p> <p>Operating System: Licensed Professional, latest 64bit with NTFS file system, for network domain environment</p> <p>Office Productivity Software: Licensed, latest 32-64bit,(word processor, spreadsheet, presentation for business)</p> <p>UPS:650VA(min), online type, with surge protection</p>	
4.	<p>One unit Laser jet Printer (Print, copy, scan, fax)</p> <p>Print speed: Letter - up to 26 ppm black;</p> <p>First Page Out : as fast as 8 sec.</p> <p>black print resolution: Black (best): Up to 600 x 600 dpi</p> <p>Print technology: Laser</p> <p>Scan type technology Flatbed, ADF; Contact Image Sensor (CIS)</p> <p>Scan resolution: Hardware: Up to 300 x 300 dpi (color and mono, ADF); Up to 600 x 600 dpi (color, flatbed); Up to 1200 x 1200 dpi (mono, flatbed); Optical: Up to 300 dpi (color and mono, ADF); Up to 600 dpi (color, flatbed); Up to 1200 dpi (mono, flatbed)"</p> <p>Scan file format: PEG, PDF, PNG</p> <p>SCAN SIZE: ADF: 8.5 x 14 in Maximum; Flatbed : 8.5 x 11.7 in Sc</p> <p>SCAN SPEED: Up to 15 ppm (b&w), up to 6 ppm (color)</p> <p>Bit depth: 24-bit; 256 digital sending standard features</p> <p>Scan to email;</p> <p>Scan to network folder</p> <p>Copy speed: Black (letter) Up to 26 cpm;</p> <p>Copy resolution: Black (text and graphics) : Up to 600 x 600 dpi;</p> <p>Max No of copies: Up to 99 copies "</p> <p>Fax speed: Up to : 4.2 kbps;</p> <p>Letter: 3 sec per page</p> <p>Fax Resolution: Black (best) : Up to 300 x 300 dpi (halftone enabled); Black (standard) : 203 x 98 dpi</p> <p>"standard connectivity:</p> <p>Hi-Speed USB 2.0 port (host/device); built-in Fast Ethernet 10/100Base-TX network port; Phone line port (in/out)"</p>	

	<p>"Wireless capability: Yes, built-in WiFi 802.11b/g/n DIMENSION : Maximum : 17.42 x 16.05 x 14.6 in</p>	
5.	<p>One unit Disk Station Server, CPU: Quad-core 2.0 Ghz-2.41 Ghz Memory:4GB DDR3L Hard Disk Drive Specs:(4pcs) 3.5" Internal Drive 4TB Capacity 64MB cache SATA 6Gb/s 24 x 7 usage for network attach storage Flash: 512 MB DOM HDD Slot:4 Bay 3.5" SATA 6Gb/s Hot-swappable HDD Tray with Keylock Gigabit, LAN Ports USB 3.0 Ports Port Trunking/Link Aggregation Support AES 256-bit Volume-based Encryprion File Sytem (Internal): EXT4 File Sytem (External):EXT3,EXT4,NTFS, FAT32,HFS+ RAID 0/1/5/5+/6/6+/10/10+ support Single Disk Support Windows ACL support Remote Replication Support Active Directory Integration</p>	
6.	<p>One unit Deskjet Colored Printer, Speed: Black: Up to 19 ppm (draft) 8 ppm (ISO); Color: Up to 15 ppm (draft) 5 ppm (ISO) Print quality: Up to 1200x1200dpi for black, and 4800x1200dpi for color- Print size: A4; B5; A6; DL envelope- Scanner: Flatbed: 216 x 297 mm- Copy speed: Black: Up to 34 ppm (draft) 22 ppm (ISO) Color: Up to 34 ppm (draft) 13 ppm (ISO) Connectivity: USB, Wireless, Wi-Fi Direct- Paper Handling: 60-sheet input tray; 25-sheet output tray- Duplex: Manual (driver support provided)- Mobile Printing: Wireless Direct Printing, Air Print Duty Cycle: Up to 1,000 pages; Recommended monthly volume: 400 to 800 pages- Warranty: 2 years or 20k pages Ink Type: Dye-based (colour); pigment-based (black</p>	
7	<p>One unit Colored printer Printer Type: Workgroup printer - laser - color</p>	

	<p>Print speed (letter): Up to 30 ppm (black); Up to 30 ppm (color) Print resolution: Black (best): Up to 600 x 600 dpi; Color (best): Up to 600 x 600 dpi Standard connectivity: 2 Hi-Speed USB 2.0 Host; 1 Hi-Speed USB 2.0 Device; 1 Gigabit Ethernet 10/100/1000T network; 2 Internal USB Host Print speed: Black (normal, letter): Up to 30 ppm; Color (normal, letter): Up to 30 ppm First page out: Black (letter, ready): As fast as 10 sec; Color (letter, ready): As fast as 10 sec Print technology: Laser Print resolution: Black (best): Up to 600 x 600 dpi; Color (best): Up to 600 x 600 dpi Processor speed: 800 MHz Display: 2.03-inch (5.2 cm), 4-line Color Graphic Display (CGD) Memory: Standard/Maximum: 1 GB Durability ratings: Duty cycle: Up to 120,000 pages; Recommended monthly page volume: Up to 2,500 to 13,000 pages Media Type: card stock, envelopes, recycled paper, transparencies, extra heavy-weight paper, glossy paper, heavy-weight glossy paper, heavy-weight paper, high-gloss paper, labels, light-weight paper, plain paper</p> <p>Inclusion: With 3 sets of toner cartridges</p>	
8.	<p>Two (2) units Server (no OS) Processor: 1 Physical Processor, 10 core, 14nm, 85W TDP Memory: 32GB RDIMM DDR4-2400 Hard Disk: 8TB Raw Capacity (8x 1TB), 2.5" 10k rpm SAS Storage Controller: Supports RAID 0, 1, 5, 6, 10, 50, 60 Network Controller: 4Port 1GB Ethernet Adapter + 4Port SFP Adapter Power Supply: 2x 500W Hot Plug Redundant Power Supply Optical Drive DVD-RW Form Factor: "2U Rackmount Processor Slot: 2 Storage Slot: 12 Memory Slot: 24 Front Security Bezel Cover with Key 2U Rackmount Rail Kit"</p> <p>Warranty: 3 Years on Parts, Labor and Onsite Support</p>	
	LOT 1.1 GASS SECTOR	
1.	<p>One (1) unit IP KVM switch Cat5 KVM over IP switch 24 computer</p>	

	<p>connection, 24x RJ45 KVM Port Daisy chain capable 1 local and 4 remote users BIOS-level access for troubleshooting User and group permissions for server access and control Event logging and Windows-based Log Server support Multiplatform client support (Windows, Mac OS X, Linux, Sun) Multi-browser support (Firefox, Chrome, Safari) Remote authentication support (MS-Active Directory, Radius) Support for IP/MAC Filter Critical system event notification via SMTP email 2x RJ45 Gigabit LAN Port, Support for Redundant LAN PS2/USB (PC, Mac, Sun)/Serial Keyboard/Mouse Emulation 1600x1200 @ 60Hz Video Display Metal Housing, 1U Rack mountable with rack mounting kit 100-240VAC; 50-60Hz, Dual Redundant Power Supply Accessory (KVM Cable): 24 pcs. USB-Virtual Media KVM Adapter Cable, (1600 x 1200) resolution up to 50m Accessory: 19" Rack mounted LCD Monitor, 1U Rackmount kit</p>	
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Revised Technical Specifications for Lot 2. Research Sector

Item	Specification	Statement of Compliance
	LOT 2. RESEARCH SECTOR	
1.	<p>2 sets Branded Desktop computer w/ OS and Productivity tools Minimum i3 8th gen or equivalent/ 4 cores /4 threads, 3.6Ghz, 6MB cache, 14nm, 4 USB ports with 2 USB3 (min), PCIE port, 4 SATA ports (min), Gigabit Ethernet port, 2 memory banks (min) DDR4 support, 8th Gen processor support, 1 pc DDR4 2400 memory 8GB (min), 1 pc 3.5" SATA 1TB (min),</p> <p>Licensed Professional, latest 64bit with NTFS file system, for network domain environment.</p> <p>UPS 650VA (min), online type, with surge protection.</p>	<p>Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.1(a)(ii) and/or GCC Clause 2.1 (a)(ii)</p>

	With Office Productivity Software, Licensed, Latest 32-64 bit, including word processor, spreadsheet, presentation for Business.	
2.	<p>6 sets Branded Desktop Computer Processor: (min) i7 8th gen or later / equivalent. 6 cores / 12 threads, 3.7Ghz base frequency to 4.7Ghz turbo frequency, 12MB cache, 14nm Motherboard: 4 USB ports with 2 USB3 (min), PCIE port, 4 SATA ports (min), Gigabit Ethernet port, 2 memory banks (min) DDR4 support, 8th Gen processor support Memory: 2 pc DDR4 2400 memory 16GB (32GB total minimum) Hard Drive: 1 pc 3.5" SATA 2TB (min) + 256GB M.2 SSD Optical Drive: DVD Writer Video: Video Card with 2GB Memory with latest GPU, VGA port, DVI port, HDMI</p> <p>Monitor: 22" (min) LED, VGA, DVI (optional)</p> <p>Input: USB Keyboard and USB Mouse</p> <p>Operating System: Licensed Professional, latest 64bit with NTFS file system, for network domain environment</p> <p>Office Productivity Software: Licensed, latest 32-64bit, including word processor, spreadsheet, presentation for business</p> <p>UPS: 650VA (min), online type, with surge protection</p>	
3.	One (1) unit Colored laser printer, up to 21ppm black and color, up to 600x600dpi print quality, monthly duty cycle up to 40,000 pages, 800Mhz processor speed (min), 2.7" color graphics screen, USB, wifi and ethernet connectivity	
4.	One (1) unit Projector, 3LCD technology, 15,000:1 contrast ratio, 2,800 lumens (min) D-sub 15 pin, RCA, S-Video input, HDMI, XGA resolution (min), 1W monoaural internal speakers, Optional wireless LAN, 2.4Kg weight	
5.	One (1) set Branded Desktop computer w/ OS and Productivity tools	

	<p>Processor: (min) 8th gen or later / equivalent. 6 cores / 12 threads, 3.7Ghz base frequency to 4.7Ghz turbo frequency, 12MB cache, 14nm Motherboard: 4 USB ports with 2 USB3 (min), PCIE port, 4 SATA ports (min), Gigabit Ethernet port, 2 memory banks (min) DDR4 support, 8th Gen processor support Memory: 2 pc DDR4 2400 memory 16GB (32GB total minimum) Hard Drive: 1 pc 3.5" SATA 2TB (min) + 256GB M.2 SSD Optical Drive: DVD Writer Video: Video Card with 2GB Memory with latest GPU, VGA port, DVI port, HDMI Monitor: 22" (min) LED, VGA, DVI (optional)</p> <p>Input: USB Keyboard and USB Mouse</p> <p>Operating System: Licensed Professional, latest 64bit with NTFS file system, for network domain environment</p> <p>Office Productivity Software: Licensed, latest 32-64bit, Including word processor, spreadsheet, presentation for business</p> <p>UPS: 650VA (min), online type, with surge protection</p>	
<p>6.</p>	<p>One (1) Unit Branded Server Processor: 1 Physical Processor, 8 core, 2.4 GHz, 25 MB, 90W Memory: 16GB RDIMM DDR4-2400 Storage Slot: 8 Small Form Factor SAS/SATA compatible, Storage Controller: Supports RAID 0, 1, 5, 6, 10, 50, 60 Hard Disk: 2TB Raw Capacity (2x 1TB), 2.5" 10k rpm SAS Network Controller: 4Port 1GB Ethernet Adapter + 4Port SFP Adapter Power Supply: 500W Hot Plug Power Supply Redundant DVD-RW Optical Drive 4x Hot Plug Redundant System Fans Form Factor: 1U Rackmount</p> <p>3 Years Warranty on Parts, Labor and Onsite Support</p>	

	Accessories: Front Security Bezel Cover with Key 1U Rackmount Rail Kit	
7.	<p>Two (2) sets Branded Desktop computer w/ OS and Productivity tools (min) i5 7th gen or later / equivalent. 4 cores / 4 threads, 3.4Ghz base frequency to 3.8Ghz turbo frequency, 6MB cache, 14nm 4 USB ports with 2 USB3 (min), PCIE port, 4 SATA ports (min), Gigabit Ethernet port, 2 memory banks (min) DDR4 support, 8th Gen processor support 1 pc DDR4 2400 memory 8GB (min) 1 pc 3.5" SATA 1TB (min) DVD Writer VGA port, DVI port, HDMI (optional), Video card (optional)</p> <p>Display: 20" (min) LED, VGA, DVI (optional)</p> <p>USB Keyboard and USB Mouse</p> <p>Operating system: Licensed Professional, latest 64bit with NTFS file system, for network domain environment</p> <p>Office Productivity Software: Licensed, latest 32-64bit, including word processor, spreadsheet, presentation for business</p> <p>UPS 650VA (min), online type, with surge protection</p>	