

SECTION VII.

**TECHNICAL
SPECIFICATIONS**

Technical Specifications for ICT Equipment

Bidders must indicate whether the goods and equipment offered are “Compliant” or “Non-Compliant” to the corresponding specifications prescribed by BCDA using this form.

PROCUREMENT FOR THE SUPPLY, DELIVERY, AND INSTALLATION OF ICT EQUIPMENT FOR THE NATIONAL ACADEMY OF SPORTS (NAS) – PHASE 1 AT NEW CLARK CITY					
TECHNICAL SPECIFICATIONS COMPLIANCE FORM					
NO.	QTY.	UNIT	SPECIFICATIONS	COMPLIANCE	
				Compliant	Non-compliant
ICT EQUIPMENT					
1	4	pcs	EXTERNAL HARD DRIVE		
			Specification: . Storage: at least 4TB . Connectivity: SuperSpeed USB 3.0 port (required for USB 3.0 transfer speeds or backwards compatible with USB 2.0 ports at USB 2.0 transfer speeds.) Inclusions: . USB 3.0 cable . Quick start guide Warranty: One (1) year limited warranty		
2	8	units	27-INCH SCREEN EXTENDED DISPLAY		
			Specification: . LCD panel type: VA LCD . Backlight type: W-LED system . Aspect ratio: 16:09 . Optimum resolution: 1920 x 1080 @ 60 Hz . Pixel Density: 82 PPI . Response time (typical): 4 ms (Gray to Gray) * . Brightness: 250 cd/m ² . Viewing angle: 178° (H) / 178° (V) . Flicker-free: Yes . Display colors: 16.7 M . Low Blue Mode: Yes Signal Input: HDMI (digital, HDCP)		
3	12	pcs	STANDARD DESKTOP PRINTER		
			FUNCTIONS . Print, copy, scan . FIRST PAGE OUT (READY): Black o Thermal Inkjet . PRINT QUALITY BLACK (BEST) o Black: Up to 1200 x 1200 rendered dpi Color: Up to 4800 x 1200 optimized dpi color . CONNECTIVITY, STANDARD o 1 Hi-Speed USB 2.0 . COMPATIBLE OPERATING SYSTEMS o Windows 10, 7		

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ICT EQUIPMENT					
			<ul style="list-style-type: none"> . PAPER HANDLING INPUT, STANDARD o 60-sheet input tray . PAPER HANDLING OUTPUT, STANDARD o 25-sheet output tray . MEDIA SIZES SUPPORTED o A4; B5; A6; DL envelope . MEDIA TYPES o Plain paper, Photo paper, Brochure paper . SCANNER TYPE o Flatbed . SCAN FILE FORMAT o JPEG, TIFF, PDF, BMP, PNG . SCAN RESOLUTION, OPTICAL o 216 x 297 mm . COPY RESOLUTION (BLACK TEXT) o Up to 600 x 300 dpi . COPY RESOLUTION (COLOR TEXT AND GRAPHICS) o Up to 600 x 300 dpi . COPIES, MAXIMUM o Up to 9 copies . Manufacturer Warranty: o One (1) year limited hardware warranty 		
4	12	units	(3-IN-1): PRINTER, SCANNER, COPIER (HIGH SPEED AND LEGAL-SIZE SCANNER)		
			<p>FUNCTIONS</p> <ul style="list-style-type: none"> . Print, Copy, Scan, Fax . FIRST PAGE OUT BLACK (A4, READY) . DUPLEX PRINTING . MOBILE PRINTING CAPABILITY . WIRELESS CAPABILITY . CONNECTIVITY, STANDARD o Hi-Speed USB 2.0 port; built-in Fast Ethernet 10/100 BaseTX network port, 802.11n 2.4/5GHz wireless, Fax port . COMPATIBLE OPERATING SYSTEMS o Windows® 10, 8.1, 8, 7: 32-bit or 64-bit, MEMORY . MEDIA SIZES SUPPORTED o Letter (216 x 280); Legal (216 x 356); MEDIA SIZES, CUSTOM . MEDIA TYPES o Paper (bond, brochure, colored, glossy, heavy, letterhead, light, photo, plain) SCANNER TYPE o Flatbed, ADF 		

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ICT EQUIPMENT					
			<ul style="list-style-type: none"> · SCAN FILE FORMAT o JPG, RAW (BMP), PNG, TIFF, PDF · AUTOMATIC DOCUMENT FEEDER CAPACITY o Standard, 35 sheets · FILE FORMAT SUPPORTED o PDF; JPG · MANUFACTURER WARRANTY o One (1) year limited hardware warranty 		
5	4	units	3-IN-1 HIGH END PRINTER		
			Specification: <ul style="list-style-type: none"> · Print, Scan, Copy, and Wireless: Yes · Print speed: Black A4: 21 ppm (ISO); Color A4: 21 ppm (ISO) · Print quality: Black & Color (best): Up to 600 x 600 dpi · Print size: Paper (bond, brochure, colored, glossy, heavy, letterhead, light, photo, plain, Max custom: 216 x 356 mm · Scanner: ADF: 215.9 x 355.6 mm (legal) / Flatbed: 215.9 x 297 mm; Up to 1200 x 1200 dpi (Flatbed) · Digital scanning: Scan to email; scan to folder; scan to USB drive · Connectivity: Hi-Speed USB 2.0 port; built-in Fast Ethernet 10/100/1000 Base-TX network port, 802.11n 2.4/5GHz wireless, Front Host USB" · Paper Handling: 250-sheet input tray, 50 sheet ADF, 100 sheet output tray · Mobile Printing: ePrint; Apple AirPrint™; Mopria™-certified; Wireless Direct Printing; Mobile Apps · Memory: 256 MB DDR, 256 MB Flash · Duty Cycle: Up to 40,000 pages; Recommended monthly volume: 150 to 2,500pages · Printer Management: Yes · Warranty: o One (1) year unit exchange 		
6	2	units	STANDARD SCANNER		
			Specification: <ul style="list-style-type: none"> · Scanner Type: Flatbed · Maximum Document Size: A4 / Letter · System Requirements: o Windows: Windows 10 / 8.1 / 7 SP1 		

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ICT EQUIPMENT					
			<ul style="list-style-type: none"> o Mac: Mac OS 10.12 ~10.13, Mac OS X v10.11.6 · Interface: USB · Power Supply: via USB port · Environment · Eco-label: Energy Star 		
7	4	units	54.6" SMARTBOARD		
			Specifications: <ul style="list-style-type: none"> · Resolution: 3840 x 2160 · Brightness (cd/m2): 350 · Contrast Ratio: 1200:1 · Viewing Angle H/V (deg): 178/178 · Response Time: 8 ms · Operating System: Android 8.0 · DDR: 4GB · Memory (eMMC): 32GB · External Storage: TF (MicroSD) · Input: HDMI 2.0, USB3.0, USB2.0, LAN RJ45 Ethernet 10/100Mbps · Output: HDMI 2.0, Audio-Out 3.5 mm jack · Touch: IR-HE 20 point multi touch · Wi-Fi: 2.4G/5G IEEE802.11 b/g/n · Panel Orientation: Landscape Built-in Speaker: 8w x 2		
8	25	units	DESKTOP CONFIG - STANDARD		
			Specification: <ul style="list-style-type: none"> · Category o Branded and Brand New · Processor o 10th Gen, 8 cores, 16 threads 16MB Cache up to 4.30 GHz frequency or higher · Memory (RAM) o 16 GB or Higher · Storage o 256GB M.2 SSD + 1TB 7200RPM HDD or higher · Video Controller o Integrated Graphics or higher · Keyboard/mouse o USB Keyboard and USB optical mouse · Networking o Onboard Gigabit Ethernet Controller · Standard I/O Ports o Headphone/microphone combo 		

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ICT EQUIPMENT					
			<ul style="list-style-type: none"> o Audio-out o Power connector o RJ45 o HDMI o DisplayPort <ul style="list-style-type: none"> · Power Supply Wattage o 180 Watts internal power supply <ul style="list-style-type: none"> · Software o Windows 10 Professional <ul style="list-style-type: none"> · Warranty (parts and service) o At least One (1) year Parts, Labor and Onsite. <ul style="list-style-type: none"> · Monitor o 23.8 Inches Display Size <ul style="list-style-type: none"> · Warranty (parts and service) · At least One (1) year Parts, Labor 		
9	20	units	DESKTOP CONFIG – MID		
			Specifications: <ul style="list-style-type: none"> · Category o Branded and Brand New <ul style="list-style-type: none"> · Processor o 10th Gen, 8 cores, 16 threads 16MB Cache up to 4.80 GHz frequency or higher <ul style="list-style-type: none"> · Memory (RAM) o 16 GB or Higher <ul style="list-style-type: none"> · Storage o 256GB M.2 SSD + 1TB 7200RPM HDD or higher <ul style="list-style-type: none"> · Video Controller o 2GB dedicated <ul style="list-style-type: none"> · Keyboard/mouse o USB Keyboard and USB optical mouse <ul style="list-style-type: none"> · Networking o Onboard Gigabit Ethernet Controller <ul style="list-style-type: none"> · Standard I/O Ports o Headphone/microphone combo o Audio-out o Power connector o RJ45 o HDMI o DisplayPort <ul style="list-style-type: none"> · Power Supply Wattage o 180 Watts internal power supply <ul style="list-style-type: none"> · Software o Windows 10 Professional 		

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ICT EQUIPMENT					
			<ul style="list-style-type: none"> · Warranty (parts and service) <ul style="list-style-type: none"> o At least One (1) year Parts, Labor · Monitor <ul style="list-style-type: none"> o 23.8 Inches Display Size 		
10	2	units	DESKTOP - HIGH END		
			Specifications: <ul style="list-style-type: none"> · 24-inch 5k Retina display, true tone technology · Dual core Intel i5, with turbo boost up to 3.6GHz or M1 Chip, 8-Core CPU with 4 performance cores and 4 efficiency cores, 8-core GPU, 16-core Neural Engine · Facetime HD Camera simultaneously supports full time native resolution on the built-in display at million colors · 512GB SSD · 7-core GPU · 8GB (2 x4GB) 2666MHz DDR4; four So-DIMM slots · Keyboard and mouse · Mac OS · 10/100/1000 Base T- gigabit Ethernet · 802.11 ac wifi with Bluetooth 5.0 wireless technology · 3.5mm headphone jack; minimum of two (2) USB Aports; minimum of one (1) thunderbolt-1 port or higher · Stereo speakers; Microphone; Studio-quality three-mic array with high signal-to-noise ratio and directional beamforming; 3.5mm headphone jack · One 1-year limited warranty 		
11	47	sets	ACCESSORIES FOR THE DESKTOPS (Webcam, UPS, & External Speakers)		
			A. WEBCAM <ul style="list-style-type: none"> · Resolution: 1080P · Lens Type: Full HD Glass Lens · Viewing Angle : 70 Degrees · Focus type: Fixed Focus; Range 60cm and beyond · Output Format : MJPEG · Compatibility: Win 7/8/8.1 and 10 or later; Compatible with Social and Video calling software for Windows, Mac OS 10.6 or later, Linux OS 2.6 or later, Chrome OS 6.0 or later, Android v6.0 or later B. EXTERNAL SPEAKERS: <ul style="list-style-type: none"> · Total watts: 25W; Subwoofer: 15W 		

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ICT EQUIPMENT					
			<ul style="list-style-type: none"> · Satellites 2 x 5 W · 3.5 mm input; headphone jack x 1 Warranty: 1-year limited warranty 		
12	50	units	LAPTOP - MID		
			Specifications: <ul style="list-style-type: none"> · Category <ul style="list-style-type: none"> o Branded and Brand New · Processor <ul style="list-style-type: none"> o 10th Gen, 4 cores · Display <ul style="list-style-type: none"> o 14 Inches (1920x1080) · Camera <ul style="list-style-type: none"> o Integrated HD 720p · Memory (RAM) <ul style="list-style-type: none"> o 16 GB or Higher · Storage <ul style="list-style-type: none"> o 512GB SSD or 256Gb SSD+ 1TB HDD or higher · Video Controller <ul style="list-style-type: none"> o Integrated Graphics or higher · Networking <ul style="list-style-type: none"> o Onboard Gigabit Ethernet Controller · Wi-Fi and Bluetooth 5 <ul style="list-style-type: none"> o Standard I/O Ports · Headphone/microphone combo <ul style="list-style-type: none"> o HDMI · AC Power <ul style="list-style-type: none"> o Battery <ul style="list-style-type: none"> o 3-cell, 45Wh Polymer o 45-Watt AC Adapter · Software <ul style="list-style-type: none"> o Windows 10 Professional Warranty (parts and service) <ul style="list-style-type: none"> · At least One (1) year warranty 		
13	4	units	LAPTOP - HIGH END		
			Specifications: <ul style="list-style-type: none"> · Laptop 13" Display (silver or space gray color) · 8 cores GPU 16Core Neural Engine · 720p Facetime HD Camera · 13.3" (Diagonal) LED-backlit display with IPS technology; 500 Nits · Mac OS 		

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ICT EQUIPMENT					
			<ul style="list-style-type: none"> · 8GB (1x8GB), Unified · Backlit Magic keyboard with: <ul style="list-style-type: none"> o 65 (U.S.) or 66 (ISO) keys including 4 arrow keys in an inverted T-arrangement o Touch Bar o Touch ID sensor o Ambient light sensor · 2 x Thunderbolt; USB 4 ports w/ support for: <ul style="list-style-type: none"> o Charging o Display port o Thunderbolt 3 (up to 40 Gps) o USB 4 (up to 40 Gbps) o USB 3.1 Gen 2 (up to 10 Bps) · 512GB SSD · 802.11ax Wi-Fi 6 Wireless network + B 5.0 · Lithium polymer battery; 61W USB-C power adapter · Stereo speakers w/ high dynamic range · Wide stereo sound · Support for Dolby Atmos playback · Studio quality with three-mic array with high signal-to-noise ratio and directional beamforming · 3.5mm headphone jack · Warranty: <ul style="list-style-type: none"> o One (1) year limited warranty 		
14	54	pcs	<p>UNINTERRUPTIBLE POWER SUPPLY FOR DESKTOPS</p> <p>Specifications:</p> <ul style="list-style-type: none"> · Capacity (VA/W): 650VA/390W · Input <ul style="list-style-type: none"> o Voltage range: 162 – 290VAC, Single phase o Frequency range: 50Hz/60Hz automatic identification · Output <ul style="list-style-type: none"> o Voltage tolerance (Batt. Mode): Simulated sine wave at nominal voltage ±10% o Frequency range (Batt. Mode): 50Hz/60Hz automatic identification · Transfer time: Typical 2–6 ms, 10ms max · Typical recharge time: 4 hours to 90% · Sockets: 3xNEMA · Runtime (in minutes) · Load%: <ul style="list-style-type: none"> o 25%: 15mins o 50%: 4mins 		

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ICT EQUIPMENT					
			<ul style="list-style-type: none"> · System Features <ul style="list-style-type: none"> o Indicators: AC Mode: Solid green led lighting o Battery Mode: Solid yellow led flash o Fault Solid: Red led lighting o Protection: Discharge, Overload and overcharge protection · Alarm: <ul style="list-style-type: none"> o Fault: Continuously sounding · Noise level: Less than 40dB (1 meter from surface) · Fuse Protection: YES 		
15	1	lot	IMPLEMENTATION, DEPLOYMENT and CONFIGURATION SERVICES		
			<ul style="list-style-type: none"> · Implementation and configuration services for the major components <ul style="list-style-type: none"> o MAJOR PRODUCT #1 : Desktops and Laptops 		
16	1	lot	ONSITE ENGINEER (for 3 months)		
			<ul style="list-style-type: none"> · One (1) on-site engineer for three (3) months per major product after project acceptance. <ul style="list-style-type: none"> o MAJOR PRODUCT #1 : Desktops and Laptops 		

Bidder's Authorized Representative

Signature over Printed Name

Principal Bidder / Supplier