



**Annex "D": Technical Specifications**

Item No.	Specification	Statement of Compliance	
		Comply	Not Comply
	<b>Negotiated Procurement for Various ICT Equipment, Peripherals and Accessories</b>		
1	<b>3 units Computer graphic desktop with license operating system 64bit</b> (must register under KSU), perpetual license MS office suites (must register under KSU), 1 year license anti-virus (must register under KSU), hardware specifications: 27" Display, 3.7GHz 6-Core Processor with Turbo Boost up to 4.6GHz, 2TB Storage, Retina 5K Display, 3.7GHz 6-core 9th-generation Intel Core i5 processor, Turbo Boost up to 4.6GHz, 8GB 2666MHz DDR4 memory, configurable up to 64GB, 2TB Fusion Drive1, Radeon Pro 580X with 8GB of GDDR5 memory Two Thunderbolt 3 ports, Retina 5K 5120-by-2880 P3 display, All external components (e.g. casing/system unit, display, keyboard, mouse) are of the same brand. Computer Voltage Regulator: 220 VAC, 1 year warranty;		
2	<b>21 sets COMPUTER DESKTOP</b> with license Win10 Pro 64bit operating system (must register under KSU), perpetual license MS office suite (must register under KSU) and 1 year license antivirus (must register under KSU), specifications: Processor: i7, 3.4GHz (8M Cache, up to 4.00GHz), Memory: 8GB Upgradable to 16GB of dual-channel, Storage / Hard Disk: 1TB SATA HDD, Display Screen: 21.5" Full HD LED 1920x1080, Graphics/Video Processor: 2GB video card, 1920 x 1080, Pointing Device: USB Optical Mouse; Input Device: Standard full-sized USB keyboard with numeric keypad, All external components (e.g. casing/system unit, display, keyboard, mouse) are of the same brand. Additional: Computer Voltage Regulator: 220 VAC, with 100mm cable zip wrap, 1 unit vacuum cleaner (specs: 12' cord length, 2.5" diameter hose size, blower feature, 12 gallon size, 5.5 peak high pressure)		
3	<b>2 units PRINTER</b> , model: L1300, print method: on demand ink jet, nozzle configuration: 360 nozzles Black, 59 nozzles each colour (Cyan, Magenta, Yellow), print direction: Bi-directional printing, Uni-directional printing, maximum resolution: 5760 x 1440 dpi (with Variable-Sized Droplet Technology), maximum ink droplet volume: 3pl, input capacity: 100 sheets, A4 Plain paper (75g/m <sup>2</sup> ), 20 sheets, Premium Glossy Photo Paper, output capacity: 50 sheets, A4 Plain paper, 30 sheets, Premium Glossy Photo Paper, paper size: A3+, A3, B4, A4, A5, A6, B5, 10x15cm (4x6), 13x18cm (5x7"), 16:9 wide size, Letter (8.5x11"), Legal (8.5x14"), Half Letter (5.5x8.5"), 9x13cm (3.5x5"), 13x20cm(5x8"), 20x25cm(8x10"), Envelopes: #10(4.125x9.5") DL(110x220mm), C4 (229x324mm, C6(114x162mm), weight: 12.2 kg, dimension: 27.8"x12.7"x8.5", w/ genuine ink (black, cyan, magenta, yellow)		
4	<b>2 pieces DJI Phantom 4 Series Intelligent flight BATTERY</b> , capacity: 5870 mAh, voltage: 15.2 V, battery type: LiPo 4S, energy: 89.2 Wh, net weight: 468 g, charging temp range: 41° to 104°F (5° to 40°C), maximum charging power: 100 W		
5	<b>1 set DSLR Camera</b> , Professional, megapixel & sensor: 24.2MP APS-C CMOS Sensor, mount: Canon EF; Canon EF-S, LCD screen: 3" Rear Touchscreen Swivel LCD (1,040,000), video recording: 1920 x 1080p at 23.98, 29.97 fps (90 Mbps MOV); 1920 x 1080p at 59.94 fps (60 Mbps MOV); 1920 x 1080p at 23.98, 29.97 fps (30 Mbps MP4); 1920 x 1080p at 29.97 fps (12 Mbps MP4); 1280 x 720p at 59.94 fps (26 Mbps MP4); 1280 x 720p at 29.97 fps (4 Mbps MP4), flash: Built-In, external flash: Hot Shoe, focus: Auto; Manual; Continuous Auto, ISO: Auto, 100-16000 (Extended Mode: 100-25600), continuous shooting: Up to 7 fps at 24.2 MP for up to 25 frames in raw format; Up to 7 fps at 24.2 MP for up to 110 frames in JPEG format; Up to 3 fps at 24.2 MP, shutter speed: 30 - 1/8000 Second, Bulb Mode, touch screen: Yes, wireless function: Built-In Wi-Fi with NFC, view finder: 22.00 mm Pentaprism, card slot: SD; SDHC; SDXC, dimension: 5.5 x 4.1 x 3.1" / 139.0 x 105.2 x 78.5 mm, power battery: LP-E6N Rechargeable Lithium-Ion Battery Pack, 7.2 VDC, 1865 mAh, color: black, lens: filter size: Front: 67 mm, focal length: 18 - 135mm Comparable 35mm Focal Length: 28.8 - 216 mm, focus: 1.28'; (39 cm), aperture: Maximum: f/3.5 - 5.6, angle view: 74° 20' - 11° 30', accessories: 2 x 32GB memory card, 1 extra battery pack, 1 travelling bag, and 1 tripod, 1 hot shoe flash, lens filter, cleaning kit, remote and trigger		
6	<b>1 set Computer Server blade with perpetual license</b> , Win2012 R2 server operating system and license anti-virus, processor: Intel® Xeon® E3-1220 v6 3.0GHz 4C/4T, Turbo, 72W, TPM, cache memory: 8M Cache, memory: 8GB DDR4 UDIMM, 2400 MT/s Single Rank, network controller: On-Board LOM 1GBE Dual Port (BCM5720 GbE LOM), storage controller: PERC H330 Integrated RAID Controller, hard drive: 2 x 1TB 7.2K RPM SATA 6Gbps 3.5in Hot-Plug Hard Drive, optical drive: DVD+/-RW, SATA, Internal, power supply: Single, Cabled Power Supply, 250W, management: iDRAC8, Express, form factor: 1U Rack Server, 1U/2U Static Rails for 2-Post and 4-Post Racks, mouse: Kit - Dell Optical Mouse - MS116 - Black - S&P, keyboard: Kit - Dell Multimedia Keyboard (English) - KB216 - Black - S&P, warranty: 3 years		



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 National Highway, Purok 6, Bulanao, Tabuk City, Kalinga  
 Website: <https://ksu.edu.ph> Email: [procurementservice\\_bac@ksu.edu.ph](mailto:procurementservice_bac@ksu.edu.ph) Tel.No.: (074)627-5321

7	<b>2 rolls Cat5e cables</b> , CAT5e+ (350MHz), 4-Bonded-pairs, U/UTP-unshielded, Plenum-CMP, Premise Horizontal cable, 24 AWG solid bare copper conductors, FEP insulation, ripcord, Flamarrest@ PVC jacket		
8	<b>25 pieces RJ 45 with metal jacket</b> , with ready ground clip		
9	<b>1 lot Video Conferencing Kit:</b> model:300-720p, modem: (type: wired, max transfer rate:6mbps, digital signaling protocol:H.225, H.239, H.281, H.323, H.460, SIP, data compression protocol:G.711, G.722, G.722.1, G.728, G.729.A, features: auto gain control, echo cancellation), video input(type: Digital video camera (color) - external, digital video capture resolution:1920 x 1080),video output (type: Codec board- external, max external resolution:1920x1200, supported display raphics:1280x720, 1680x1050, 1920x1200, HDTV (1920x1080), SXGA (1280x1024), SXGA+ (1400x1050), VGA (640x480), XGA (1024x768), digital video standard: High-Definition Multimedia Interface (HDMI)), input device (type: remote control, connectivity tech: wireless), networking(type: network adapter, connectivity tech: wired, data link protocol: Ethernet, Fast Ethernet, Gigabit Ethernet, features: auto-uplink (auto MDI/MDI-X), environmental parameters (Min Operating Temperature:32 °F, Max Operating Temperature:104 °F, Humidity Range Operating:15-80%), warranty: 1 year		
10	<b>1 lot Audio recording kit:</b> DR-60DmkII 4-Channel Portable Recorder for DSLR, Professional lavalier condenser microphone, 16GB SDHC memory card, Samson stereo headphones, Cleaning accessories, 4 AA rechargeable batteries with charger, Auxiliary wire, Microfiber Cleaning cloth, blower brush		
11	<b>1 unit Penetration Testing Device</b> , Quad-core ARM Cortex A7, 32 K L1/512 K L2 Cache, 512 MB DDR3 Memory, 8 GB SLC NAND Disk, Case Dimensions: 56 x 27 x 14.7 mm sans USB plug. With USB plug it's 70 mm long, with installation, configuration and training		
12	<b>1 lot Lumeta IPSonar 6.2</b> , provides a clear understanding of entire routed infrastructure and confirmation that all assets are under security management, with installation, configuration and training		
13	<b>1 lot Intrusion detection with license software and bandwidth manager</b> , CPU:TLR4-03680, CPU core count:36, CPU nominal frequency:1.2 GHz, dimensions:355x145x44mm, license level:6, operating system: routerOS, RAM:16gb, storage size:1gb, storage type: NAND, max power consumption:74w, 10/100/1000 Ethernet ports:8, SFP+ ports:2, memory card type: microSD 32gb, memory cards:1, serial port: RS232, peripherals, configuration and training on IDS and bandwidth management		
14	<b>2 units Generator set</b> , type: brush (AVR) single phase, frequency:60, rated output:8800, output receptacle:50amp range and 14-150r, fuel: diesel, runtime@75% load:7hours, gross weight:195kg, voltage:120/240, surge output:1100, rated current:36.6, DC 12v output: Yes, fuel tank capacity:25L, dimension(LxWxH)(mm):870x630x700, warranty: 3 years, with installation		
15	<b>2 sets Lineman safety harness</b> , Belt: 45mm X 1.33m, Nylon Belt Webbing: 45mmx 1.69m, Nylon Webbing, 1 x buckle 3 x "D" ring, 1 x adjusting loop ,2 x CE Mark Double-lock snap hook (H-2102,Φ18mm), 1 x rope hook bag, 2 x bundle of belt, 1X cove, and full body harness: Belt: 45mm X1.33m Nylon Belt, Webbing: 45mmx 1.69m Nylon Webbing, complies to CE and ANSI approved standards, Meets EN 361/EN 358/EN 362/EN 12275/EN 354/EN 355 Standards, Manufactured by ISO 9001:2008 Certified company		
	<b>Other Requirements:</b>		
	<i>Note: Response only on the requirements that is applicable to the item above</i>		
	All equipment and components should be branded (not clone, imitation or assembled) and brand new		
	Availability of parts in local market by local distributor		
	The supplier must have been in IT business for at least five (5) years and is an authorized service partner and reseller of the product/unit being offered.		
	All software to be delivered / installed must have Manufacturer's Certification and proof that product licenses are genuine and acquired from legitimate distributor (e.g. Certificate of Authenticity, Proof of Purchase, Paper License, Certification from authorized distributor)		
	For DESKTOP AND SERVER, 1TB HDD: Installation of the operating system in 500GB partition (50%). Remaining partition for data files (NTFS).		
	Software must be pre-installed, pre-activated and updated. For recovery purpose, included are copies of the image file for the whole hard disk drive. Perpetual license of the recovery software must be included.		
	Includes delivery, deployment, hardware setup, installation, configuration, integration with the existing system, testing and commissioning of IT equipment in KSU		



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	No installation of trial version, evaluation copy, time-limited software, unauthorized/inappropriate licenses and counterfeit products.		
	Deactivation of unnecessary applications that affect CPU performance as determined by the TWG. Final approval of the TWG for the settings and configuration of the PC before deployment to end-user.		
	During the warranty period, any defective or malfunctioning device/hard disk shall be repaired by the supplier. In case the hard disk already contains data, the hard disk shall be the custody of KSU.		
	Install the customized start-up logo during boot-up to display the official logo of the office located at the middle occupying at least 30% of the screen.		
	Conduct training or orientation within weeks after installation with training manual to be issued to the University.		
	Provision of Brochure/catalogue indicating the brand name and model of bid item/s and process of operation as additional technical requirements		
	1- or 3-years warranty of service and device/equipment based on the equipment (It will start after the turn-over and training of the end-user)		
	2 weeks period for testing and sealing of the equipment prior to payment. All defects shall be charged to the performance bond within the year.		
	<b>After Sales Requirements:</b>		
	After sales training at the procuring entity's school after the completion of delivery.		
	Under warranty coverage: If unrepairable within 7 days, a free service backup unit (1:1) or service spare part of the same or higher specification must be provided by the supplier until defective unit / part is considered repaired/replaced.		
	Supplier/bidder must have the capability of receiving request for technical support / service by phone and by supplier's official corporate email account which is accessible.		
	Monday to Friday, office hours technical support and service		
	With Customer Service division/section of at least 5 years' experience in IT business and after-sales service and support.		
	Capable of providing technical service/assistance within 24 hours OR next business day on-site (NBDOS) service warranty.		
	With reliable ticketing/monitoring system/procedure capable of monitoring all received service request based on issued report/incident number for proper monitoring and tracing.		

I hereby certify to comply with all the above Technical Specifications.

\_\_\_\_\_  
Name of Company/Bidder

\_\_\_\_\_  
Signature Over Printed Name  
of Representative

\_\_\_\_\_  
Date