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PR-2022-0129-9650

OP 2/7/22 dm



Republic of the Philippines  
**VISAYAS STATE UNIVERSITY**  
 Visca, Baybay City, Leyte

## PURCHASE REQUEST

Dept./Office: **ICTMC**Section/End-User: **Norman O. Villas**Funding Source: **Trust Fund**PR No.: **TF-2022-01-00081**Date: **01-27-2022**Category: **IT Supplies and Equipment**Project Title/Code: **Smart Campus Phase 1**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	1 Lot Containerized Data Center	lot	1	5,000,000.00		5,000,000.00

### Specification:

	Description	Qty
UPS		
	15kVA/15kW Rack-mountable Online UPS, 230V	1
	Rack-mount kit	1
	24 x 7 Power Up Service	1
	External Battery Pack, Rack-mounted, 192V with rail kit	1
	Start-up service, 24x7	1
Data Cabinet and Accessories		
	42U Server Rack Enclosure 600mm x 1070mm w/ Sides, Black Color	2
	42U 750mm Wide x 1070mm Deep Enclosure with Sides, Black Color	1
	Vertical Cable Manager for 750mm Wide 42U (2 units)	2
	Hinged Covers 750mm Wide 42U Vertical Cable Manager (2 units)	2
	Vertical Cable Manager for 600mm Wide 42U (2 units)	2
	1U 19-inch Black Modular Toolless Blanking Panel (10 units)	5
	Basic Rack PDU, Zero U, 16A, 230V, (20)C13 & (4)C19, IEC C20	3
	Power Cord, C19 to C20, 2.0m	3
	Assembly service	1
PACU		
	In-row PACU 300mm up to 30kW with humidifier (230V/1ph/60hz)	1
	30kW Condensing Unit, (400V/3ph/60Hz), Single feed	1
	Ball Valve & Union	1
	Start-up and assembly service, 24x7	1
	Semi-annual PM, 24x7	1

Risk contingency

1

Container  
Van

20 Footer Container Van w/

1

Steel door with hinges and stainless steel door knob

Insulation

Cable entry/feed through provision

Electrical outlet provisions and lighting

Hauling and positioning

Engineering Services

Design, installation, configuration and project management

1

2

**Interactive Smart Classroom  
Setup for Mixed Virtual and Face-  
to-Face Instruction - Audio  
Component -**

lot

1

130,000.00

130,000.00

**Specification:**

LOT 1 -  
AUDIO

Audio mixer

4 mic XLR/line 1/4 inch jack inputs, 2 with Class A FET high  
impedance inputs

3 band EQ

1 pre-fade Aux send

1 FX send

Sound image pan

Stereo returns & playback

All inputs with level control

Responsive 3-band, swept mid EQ with MusiQ

2 stereo sources with MP3 player compatibility

Separate 2-track record outputs

Stereo playback input for 2-track replay

XLR main stereo outputs with inserts

Configurable USB stereo audio in/out

Stereo monitor outs

48V microphone phantom power

1 pc

		2.4GHz ISM Band Operation 1 x Body Pack Transmitter 1 x Headset Mic 1 x Lavalier Mic Lavalier Microphone and Receiver 1 x Half-Rack Receiver Built-In 5-Band Graphic EQ 24-Bit Linear PCM Digital Audio Intelligent Feedback Reducer Includes Body Pack Belt Clip & Tie Clip Includes 2 Windscreens & 2 Antennas 1 set				
2-pc Wireless Microphone Set		2 x PG58 Cardioid Microphone with Transmitters Dual-Channel Tabletop Receiver 1 set				
3-prong cables		1 meter male-to-male XLR connector 5 pcs				
USB Cable		2 meters Male Type A to Male Type B USB Connector 2 pcs				
Active Speakers		600 Watts Loud Speaker with Stand 12-inch (305 mm) LF driver, 2-inch (50.8 mm) voice coil 1-inch (25.4 mm) neodymium HF compression driver Standard speaker pole socket Balanced XLR/TRS with selectable Mic/Line input, XLR Link Output, Contour EQ switch and Ground-Lift switch 2 sets				
Microphone Stand		Tripod Floor Stand With Telescopic Boom Arm 2 Microphone Holder Adaptors 2 pcs				
3	Interactive Smart Classroom Setup for Mixed Virtual and Face-to-Face Instruction - Video Component	lot	1	940,571.43		940,571.43
Specification:  LOT 2 - VIDEO						

PTZ Camera - With Auto-Tracking Software	1/2,3-Type MOS 30 x optical zoom (10x digital zoom + Digital Extender) PoE+ Support Audio input function Night Mode*1 - Supports automatic switching High Dynamic Range (HDR) mode Video Output: HDMI HDMI Video Output Format: 1080/50p, 1080/59,94p, 1080/50i, 1080/59.94i, 1080/25ü, 1080/29.97p, 1080/25psF, 1080/29.97psF, 720/50p, 720/59.94p Freeze During Preset Function IP connection allows control of up to 100 AW-HE40H/S units by using AW-RP50E IP Image output function allows Image monitoring by IP connection with a PC RS422, RS232C In/Out	1 set
	With Compatible Auto-Tracking Software 1/2,3-Type MOS 30 x optical zoom (10x digital zoom + Digital Extender) PoE+ Support Audio input function Night Mode*1 - Supports automatic switching High Dynamic Range (HDR) mode Video Output: HDMI HDMI Video Output Format: 1080/50p, 1080/59,94p, 1080/50i, 1080/59.94i, 1080/25ü, 1080/29.97p, 1080/25psF, 1080/29.97psF, 720/50p, 720/59.94p Freeze During Preset Function IP connection allows control of up to 100 AW-HE40H/S units by using AW-RP50E IP Image output function allow	2 sets
PTZ Camera	Compatible to PTZ Camera Large touch-panel LCD screen for monitoring and menu setting Joystick for one-handed operation Simplified PTZ camera presets and tracing memory Intuitive design elements based on direct feedback from everyday robotic camera operators 3G-SDI Active Through Output, 5 x RS-422, LAN PoE+, 2 x GPIOs 8-Channel HDMI Live Streaming Switcher Supports up to 1080p60 RTMP Streaming via Ethernet or USB-C Record Program Out and Individual Inputs	1 pc
PTZ Camera Controller	11-Input, 2-Channel Audio Mixer Input Frame Rate and Format Converter Re-Sync on All HDMI Inputs HD Multiview Output with up to 16 Views Local and Software Switching 4 x Upstream, 2 x Downstream Keyers	1 pc
Video Mixer		

	CAT 6 UTP CAT 6 Cable, 4 Pair, 24 AWG, Solid Bare Copper Conductor, U/UTP, PO Insulation, PVC Jacket, Indoor PVC - Polyvinyl Chloride ISO/IEC 11801 TIA 568.2-D Category 6 NEMA WC-63.1 Category 6, UL verified to Category 6 Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422, 250MHz Category 6	1	spo ol
CAT6 Cables for PTZ			
	1080p Video at 60 fps 1/5.8" BSI MOS Sensor 50x Optical Zoom & 90x Intelligent Zoom 5-Axis HYBRID O.I.S.+ and Level Shot 2.7" Touchscreen LCD	3	set s
Backup HD Cameras			
	HDMI Cables 3 meters	6	pcs
HDMI Cables			
	HDMI-over-IP 120m Over Cat5/5e/6 IP/TCP Support 1080P	6	set s
HDMI-over-IP Extenders			
	Slim-Profile Tripod Folded Width: 3.2", Folded Length: 20.1" Load Capacity: 8.8 lb Max Height: 57.6", Min Height: 15.7" Leg Sections: 4, Weight: 2.2 lb Reversible, Rapid Column Carbon-Fiber Legs, Rubber Feet 1/2-Turn Twist Locks, Bubble Level Magnesium-Alloy Ball Head, 90° Tilt 360° Pan, Arca-Type Compatible Clamp	6	pcs
Tripods			
	Installation, Testing, & Commissioning		

4	<b>Interactive Smart Classroom Setup for Mixed Virtual and Face-to-Face Instruction Class room and Stud</b>	lot	1	615,000.00		615,000.00
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**Specification:**

LED Soft panel lights	Measures: 8.5 x 10 x 2.5" Beam Angle: 120° Color Temperature: 3200-5600K, CRI: 95 110 to 240 VAC Adapter, Battery Option 0-100% Dimming, Flicker-Free Includes 4-Leaf Barndoor, Soft Diffuser	8	sets
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LED Fresnel Spot lights	Up to 50W / 3500K LED Source Barndoors and Gel Frame Included Power-Link up to 26 Units at 230V Power Cord Included	8 sets
Lighting brackets, clamps, and accessories	To install LED soft panel lights, Fresnel spot lights, and Green Screen in venue as designed by the end-user	1 set
Green Screen Setup	Covers half of a 10m W x 10m L x 4 m H diamond room including the floor Can be retractable for non-green screen uses With mounts attached to the room ceiling and walls	1 set
Rolling TV cart with wheels	Heavy duty for 40" televisions	2 pcs
Smart OLED/QLED TV 75 to 90"	Flat screen measuring from 75 to 90" diagonally Up to 4K Ultra HD resolution Native aspect ratio: 16:9 With Airplay 2 Internet over WiFi or LAN With Smart functionalities Ports: Ethernet/LAN, USB, HDMI	1 pcs
40" Television	Smart HD TV measuring 40" diagonally Native aspect ratio: 16:9 With Airplay 2 Internet over WiFi or LAN With Smart functionalities Ports: Ethernet/LAN, USB, HDMI	2 sets
HDMI Cables	3 meters	2 pcs
Installation, Testing, & Commissioning		

5	<b>Interactive Smart Classroom Setup for Mixed Virtual and Face-to-Face Instruction Computer Components</b>	lot	1	550,000.00		550,000.00
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**Specification:**

LOT 3 -  
COMPUTER  
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Class Laptop Computer	Integrated 8-core CPU, 8-core GPU, and 16-core Neural Engine 16GB unified memory 512GB SSD storage 13.3-inch (diagonal) LED-backlit display with IPS technology; 2560-by-1600 native resolution at 227 pixels per inch with support for millions of colors Backlit Keyboard - US English Two Thunderbolt / USB 4 ports	1 pc
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Production Laptop Computer	Integrated 10-core CPU, 32-core GPU, and 16-core Neural Engine	1 pc
	64GB unified memory	
	1TB SSD storage	
	16.2-inch (diagonal) XDR display; 3456-by-2234 native resolution at 254 pixels per inch	
	Three Thunderbolt 4 ports, HDMI port, SDXC card slot	
	140W USB-C Power Adapter	
	Backlit Keyboard	
	AMD Ryzen 7 high end processor 8 Core Processor upto 3.7Ghz clock speed	
	16GB DDR4 3200MHz RGB RAM	
	B450 feature-rich motherboard	
	Dedicated NVIDIA graphics card, VR-ready	
	500GB high speed NVMe SSD storage	
Technical Desktop Computer	1TB HDD 7200rpm	1 set
	750W 80+ gold rated power supply	
	Windowed case, tempered glass side panel	
	Genuine Windows 10 Pro.	
	With Pre installed Declink 4k SDI Capture Card used for livestream and video capture	
	28" 4K UHD Monitor	
	Optical Mouse	
	USB keyboard with backlight	

Tablet Set	Multi-Touch Tablet	1 set
	12.9-inch (diagonal) mini-LED-backlit Multi-Touch display with IPS technology	
	2732-by-2048-pixel resolution at 264 pixels per inch (ppi)	
	Integrated Chip with 8-core CPU with 4 performance cores and 4 efficiency cores, 8-core GPU and 16-core Neural Engine	
	512 GB storage	
	WiFi model	
	USB-C Charge Cable (1 meter)	
	20W USB-C Power Adapter	
	Pro camera system: Wide and Ultra Wide cameras	
	Wide: 12MP, <i>f</i> /1.8 aperture	
	Ultra Wide: 10MP, <i>f</i> /2.4 aperture, and 125° field of view	
	2x optical zoom out	
	Digital zoom up to 5x	
	Compatible Stylus through Bluetooth Connection	
	Length: 6.53 inches (166 mm)	
	Diameter: 0.35 inch (8.9 mm)	
	Weight: 0.73 ounce (20.7 grams)	
	Compatible Keyboard	
	Backlit keys with scissor mechanism	
	Designed for Multi-Touch gestures and the cursor	
	USB-C port for charging tablet	
	Foldable into case	

HDMI Capture Card	Input interface: HDMI input with loop out	
	HDMI input format: comply with HDMI3.1 standard.	
	Host interface: USB2.0, *40MB/s transmission bandwidth	
	Input interface: 1 HDMI interface	
	HDMI video input: HDMI video input 1 channel 1080P/60Hz HDMI HD	
	HDMI input format: Comply with HDMI 1.4a standard, support 1080p/60Hz8-bit, (RGB, YUV)	
	HDMI output interface: 1 HDMI output port, 1920x1080 frame?4K-30FPS	
	USB output format: 640x480-1920x1080.	
	Frame rate: 60 fps	
	Audio input interface: LINE IN3.5MM audio input	
	Video sampling rate: HDMI: 165MHz	
	Audio and video capture: Comply with UVC (USB video class), UAC (USB audio class) specifications	2 pc
	Support resolution: 4096*2160p and 1920*1080p standard resolution	s
	Operating system support: supports x86 and x64 versions of the following operating	
	Onboard memory: 64MB DDR2, working frequency is 300 MHz, bit width is 16bit	
	Color:Black	
	Size:6*6*1.3cm	
	Compatible development interface: "DirectShow (Windows), DirectSound (Windows),	
	V4L2 (Linux), ALSA (Linux)"	
	Onboard memory: 64MB DDR2, working frequency is 300 MHz, bit width is 16bit	
	Upgrade: the firmware can be upgraded	
	Power consumption: <= 3.5W	
HDMI Splitter	DC 5V power supply	2 pc
	HDMI Input to 4 HDMI outputs	s
	Output Power Capacity: 325 Watts/650VA	
	Output Frequency: 50/60 Hz +/-1 Hz	
	Output Connections: (2) Universal Receptacle	
	Nominal Input Voltage: 230V	
UPS	Input Connections: NEMA 5-15P	1 pc
	Maximum Input Current: 5A	
	Battery Type: Maintenance-free sealed Lead-Acid battery with suspended electrolyte leakproof	
	Recharging Time	

6	QR Code scanner Android OS	unit	40	18,000.00		720,000.00
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**Specification:**

- OS: Android
- CPU Speed: 2 GHz
- CPU Type: Octa-Core
- Display: Resolution (Main Display): 2000 x 1200 (WUXGA+)
- Color Depth (Main Display): 16M

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|--|-------|--|--|--|--|--------------|
|  | TOTAL |  |  |  |  | 7,955,571.43 |
|--|-------|--|--|--|--|--------------|

Checked by:	Funds Available:
	
<b>MICHAEL ANTHONY JAY B. REGIS</b>	<b>NICK FREDDY R. BELLO</b>
TWG - IT Supplies and Equipment	HEAD, ACCOUNTING OFFICE 

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