



BID BULLETIN 02

Date: 10 March 2022

Project Title: Procurement of Equipment for Smart Campus (GOODS-22-18)

Location: VSU Main, Visca, Baybay City, Leyte

Bidders are hereby informed/reminded of the following addendums/amendments/clarifications:

I. LIST OF REQUIREMENTS

(1st Envelope) TECHNICAL COMPONENT ENVELOPE	
<i>Legal Documents</i>	
1	PhilGEPS Certificate of Registration (Platinum)
	or
	a. Registration Certificate (SEC, DTI or CDA)
	b. Mayor's/Business Permit
	c. Tax Clearance
<i>Technical Documents</i>	
2	Statement of All On-Going Government & Private Contracts
3	Statement of Bidder's Single Largest Completed Contract (at least 50% of the ABC or Php 3,977,785.72 .)
	Or
	Statement of at least two (2) similar completed contracts w/ total amount of at least Php 3,977,785.72 and the largest of which should be at least PhP 1,988,892.86
4	Bid Security
5	Technical Specifications
6	SCHEDULE of Requirements/Production and delivery schedule
7	Manpower Requirements
8	After Sales service/parts from acceptance of delivered goods (at least 1 year for equipment and 3 months for supplies)
9	Original Duly Signed Omnibus Sworn Statement
<i>Financial Documents</i>	
10	The Supplier's Audited Financial Statements
11	Net Financial Contracting Capacity (at least Php 7,955,571.43)
	Or
	Committed Line of Credit (at least Php 795,557.14)
(2nd Envelope) FINANCIAL COMPONENT ENVELOPE	
12	Original of duly signed and accomplished Financial Bid Form
13	Original of duly signed and accomplished Price Schedule(s)



Please take note:

In the **Technical Specifications**, bidders must state either “Comply” or “Not Comply” **against each of the individual parameters of the specifications** per item stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in the **Bidders Bid** and cross-referenced to that evidence. Evidence shall be in the form of **manufacturer’s un-amended sales literature (Data Sheets), unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data, and Brand and Model** 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).

II. Preparation of Electronic Bid (for bidders who prefer electronic bid submission)

1. **Scan per document** into Portable Document Format (PDF) and should be printable.
2. Properly label all scanned documents for prompt identification. Filename of documents, whichever are applicable to the bidder, should be as follows:

Document	Filename (in PDF form)
1. PhilGEPS Certificate of Registration (Platinum)	PhilGEPS
2. Registration Certificate (SEC/DTI)	Registration Certificate
3. Mayor’s/Business Permit	Mayor’s-Business Permit
4. Tax Clearance	Tax Clearance
5. Statement of On-Going Government & Private Contracts	Statement of On-Going Contracts
6. Statement of Bidder's Single Largest Completed Contract	SLCC
7. Statement of at least two (2) similar completed contracts	Statement of Completed Contracts
8. Bid Security	Bid Security
9. Technical Specifications	Technical Specifications
10. SCHEDULE of Requirements/Production and delivery schedule	Schedule of Requirements
11. Manpower Requirements	Manpower Requirements
12. After Sales service/parts	After Sales
13. Omnibus Sworn Statement	Omnibus Sworn Statement
14. Audited Financial Statements	Audited Financial Statements
15. Net Financial Contracting Capacity	NFCC
16. Committed Line of Credit	CLC
17. Bid Form	Bid Form
18. Price Schedule	Price Schedule

3. Create two (2) folders that are password-protected. The first folder should contain all requirements under Technical Component checklist as presented under Section VIII.

The second folder should contain all requirements under Financial Component checklist.



4. Compress the two (2) folders and name as follows: a) first folder: **Technical Documents**, b) second folder: **Financial Documents**.
5. Email the 2 compressed folders to Ms. Jessamine C. Ecleo at jessamine.ecleo@vsu.edu.ph before the deadline.

III. Changes in the Bidding Documents

Original	
<p>Section I. Invitation to Bid</p> <p>6. A complete set of Bidding Documents may be acquired by interested Bidders on <i>28 February – 21 March 2022 until 8:30 AM</i> from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Ten Thousand Pesos (PhP 10,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.</p>	<p><i>(Amendment)</i></p> <p>A complete set of Bidding Documents may be acquired by interested Bidders on <i>28 February – 21 March 2022 until 8:30 AM</i> from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Ten Thousand Pesos (PhP 10,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means:</p> <p style="padding-left: 40px;">The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.</p> <p style="padding-left: 40px;">The Bidders may deposit the payment for the bidding documents to the Visayas State University Landbank Account with the following details:</p> <p style="padding-left: 40px;">Account Name: Visayas State University Fund 164 Account Number: <u>3572-1000-13</u></p> <p style="padding-left: 40px;">Then send the deposit slip to jessamine.ecleo@vsu.edu.ph</p>
<p>Section II. Instructions to Bidders</p> <p>15. Sealing and Marking of Bids</p>	<p><i>(Additional Instructions)</i></p> <p>Bidders are requested to submit three (3) copies of its bid – 1 Original, Copy 1, and Copy 2.</p> <p>For filing purposes, the bidders are urged to use Orange envelopes for its Technical and Financial Component envelopes, including the Mother (outer) Envelope.</p>



<p>Section III. Bid Data Sheet</p> <p>5.3 For this purpose, contracts similar to the Project shall be:</p> <p>a. <i>Design, Installation, Configuration of Containerized Data Center (for Lot 1)</i></p> <p>b. <i>I.T. Equipment, Office Equipment, Communication Equipment, or a combination of the foregoing (for Lot 2-6)</i></p> <p>c. completed within two (2) years prior to the deadline for the submission and receipt of bids.</p>	<p><i>(Amendment)</i></p> <p>a. <i>Design, Installation, Configuration of Containerized Data Center (for Lot 1)</i></p> <p>b. <i>I.T. Equipment, Office Equipment, Communication Equipment, or a combination of the foregoing (for Lot 2-6)</i></p> <p>c. completed within five (5) years prior to the deadline for the submission and receipt of bids.</p>
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IV. Revised List of Goods and Technical Specifications

- Some Specifications were added (in **red** font) and/or deleted (in **blue** font)
- Some Quantities and Unit Prices (ABC) were changed

Item No.	Description	Unit	Qty	ABC/Unit	Total ABC
1	1 Lot Containerized Data Center	lot	1	5,000,000.00	5,000,000.00
	UPS				
	15kVA/15kW Rack-mountable Online UPS, 230V (1 unit)				
	Rack-mount kit (1 unit)				
	24 x 7 Power Up Service (1 unit)				
	External Battery Pack, Rack-mounted, 192V with rail kit (1 unit)				
	Start-up service, 24x7 (1 unit)				
	Data Cabinet and Accessories				
	42U Server Rack Enclosure 600mm x 1070mm w/ Sides, Black Color (2 units)				
	42U 750mm Wide x 1070mm Deep Enclosure with Sides, Black Color (1 unit)				
	Vertical Cable Manager for 750mm Wide 42U (2 units)				
	Hinged Covers 750mm Wide 42U Vertical Cable Manager (2 units)				
	Vertical Cable Manager for 600mm Wide 42U (2 units)				
	1U 19-inch Black Modular Toolless Blanking Panel (10 units , 5 sets per unit)				
	Basic Rack PDU, Zero U, 16A, 230V, (20 outlets)C13 & (4 outlets)C19, IEC C20 (3 outlets) (3 unit for 3 racks)				
	Power Cord, C19 to C20, 2.0m (3 pcs.)				
	with Assembly services (1)- delete				
	PACU				
	In-row PACU 300mm up to 30kW with humidifier (230V/1ph/60hz) (1 Unit)				



	30kW Condensing Unit, (400V/3ph/60Hz), Single feed (1 Unit)				
	Ball Valve & Union (1 Unit)				
	with testing, commissioning, Start-up and assembly service, 24x7 (1 lot)				
	With Semi-annual Preventive Maintenance for 1 year, 24x7 (1 lot)				
	Risk contingency (1 lot)				
	Container Van (1 Unit)				
	20 Footer Container Van w/				
	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 (1 lot)				
	with installation				
	Suppliers should follow the Terms of Reference set by the end-user (see item V of Bid Bulletin)				
2	Interactive Smart Classroom Setup for Mixed Virtual and Face-to-Face Instruction - Audio Component -	lot	1	130,000.00	130,000.00
	Audio mixer (1 pc)				
	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				
	Lavalier Microphone and Receiver (1 set)				
	2.4GHz ISM Band Operation				
	1 x Body Pack Transmitter				
	1 x Headset Mic				
	1 x Lavalier Mic				
	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				
	2-pc Wireless Microphone Set (1 set)				
	2 x PG58 Cardioid Microphone with Transmitters				



	Dual-Channel Tabletop Receiver				
	3-prong cables (5 pcs)				
	1 meter male-to-male XLR connector				
	USB Cable (2pcs)				
	2 meters Male Type A to Male Type B USB Connector				
	Active Speakers (2 sets)				
	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				
	Microphone Stand (2 pcs)				
	Tripod Floor Stand With Telescopic Boom Arm				
	2 Microphone Holder Adoptors				
3	Interactive Smart Classroom Setup for Mixed Virtual and Face-to-Face Instruction - Video Component	lot	1	940,571.43	940,571.43
	PTZ Camera - With Auto-Tracking Software (1 set)				
	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				
	With Compatible Auto-Tracking Software				
	PTZ Camera (2 sets)				
	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			
	PTZ Camera Controller (1 pc)			
	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			
	Video Mixer (1 pc)			
	8-Channel HDMI Live Streaming Switcher			
	Supports up to 1080p60			
	RTMP Streaming via Ethernet or USB-C			
	Record Program Out and Individual Inputs			
	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			
	CAT6 Cables for PTZ (1 spool)			
	CAT 6 UTP			
	CAT 6 Cable, 4 Pair, 23 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			
	Backup HD Cameras (3 sets)			
	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			
	HDMI Cables (6 pcs)			
	3 meters			
	HDMI-over-IP Extenders (6 sets)			
	120m Over Cat5/5e/6			
	IP/TCP Support 1080P			
	Tripods (6 pcs)			
	Slim-Profile Tripod			



	<i>Folded Width: 3.2", Folded Length: 20.1"</i>				
	<i>Load Capacity: 8.8 lb</i>				
	<i>Max Height: 57.6", Min Height: 15.7"</i>				
	<i>Leg Sections: 4, Weight: 2.2 lb</i>				
	<i>Reversible, Rapid Column</i>				
	<i>Carbon-Fiber Legs, Rubber Feet</i>				
	<i>1/2-Turn Twist Locks, Bubble Level</i>				
	<i>Magnesium-Alloy Ball Head, 90° Tilt</i>				
	<i>360° Pan, Arca-Type Compatible Clamp</i>				
	Installation, Testing, & Commissioning				
4	Interactive Smart Classroom Setup for Mixed Virtual and Face-to-Face Instruction Classroom and Studio Component	lot	1	615,000.00	615,000.00
	LED Soft panel lights (8 sets)				
	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				
	LED Fresnel Spot lights (8 sets)				
	Up to 50W / 3500K LED Source				
	Barndoors and Gel Frame Included				
	Power-Link up to 26 Units at 230V				
	Power Cord Included				
	Lighting brackets, clamps, and accessories (1 set)				
	To install LED soft panel lights, Fresnel spot lights, and Green Screen in venue as designed by the end-user				
	Green Screen Setup (1 set)				
	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				
	Rolling TV cart with wheels (2 pcs)				
	Heavy duty for 40" televisions				
	Smart OLED/QLED TV at least 85" (1 unit)				
	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				
	40" Television (2 units)				
	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				
	HDMI Cables (2 pcs)				



	3 meters				
	Installation, Testing, & Commissioning				
5	Interactive Smart Classroom Setup for Mixed Virtual and Face-to-Face Instruction Computer Component	lot	1	550,000.00	550,000.00
	Class Laptop Computer (1 unit)				
	<i>Integrated 8-core CPU, 8-core GPU, and 16-core Neural Engine</i>				
	<i>16GB unified memory</i>				
	<i>512GB SSD storage</i>				
	<i>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</i>				
	<i>Backlit Keyboard - US English</i>				
	<i>Two Thunderbolt / USB 4 ports</i>				
	Production Laptop Computer (1 unit)				
	<i>Integrated 10-core CPU, 32-core GPU, and 16-core Neural Engine</i>				
	<i>64GB unified memory</i>				
	<i>1TB SSD storage</i>				
	<i>16.2-inch (diagonal) XDR display; 3456-by-2234 native resolution at 254 pixels per inch</i>				
	<i>Three Thunderbolt 4 ports, HDMI port, SDXC card slot</i>				
	<i>140W USB-C Power Adapter</i>				
	<i>Backlit Keyboard</i>				
	Technical Desktop Computer (1 set)				
	<i>AMD Ryzen 7 high end processor 8 Core Processor upto 3.7Ghz clock speed</i>				
	<i>16GB DDR4 3200MHz RGB RAM</i>				
	<i>B450 feature-rich motherboard</i>				
	<i>Dedicated NVIDIA graphics card, VR-ready</i>				
	<i>500GB high speed NVMe SSD storage</i>				
	<i>1TB HDD 7200rpm</i>				
	<i>750W 80+ gold rated power supply</i>				
	<i>Windowed case, tempered glass side panel</i>				
	<i>Genuine Windows 10 Pro.</i>				
	<i>With Pre installed Declink 4k SDI Capture Card used for livestream and video capture</i>				
	<i>28" 4K UHD Monitor</i>				
	<i>Optical Mouse</i>				
	<i>USB keyboard with backlight</i>				
	Tablet Set (1 set)				
	<i>Multi-Touch Tablet</i>				
	<i>12.9-inch (diagonal) mini-LED-backlit Multi-Touch display with IPS technology</i>				
	<i>2732-by-2048-pixel resolution at 264 pixels per inch (ppi)</i>				
	<i>Integrated Chip with 8-core CPU with 4 performance cores and 4 efficiency cores, 8-core GPU and 16-core Neural Engine</i>				
	<i>512 GB storage</i>				
	<i>WiFi model</i>				
	<i>USB-C Charge Cable (1 meter)</i>				



	20W USB-C Power Adapter				
	Pro camera system: Wide and Ultra Wide cameras				
	Wide: 12MP, f/1.8 aperture				
	Ultra Wide: 10MP, f/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 (2 pcs)				
	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/60Hz 8-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				
	Support resolution: 4096*2160p and 1920*1080p standard resolution				
	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 (2 pcs)				
	DC 5V power supply				
	HDMI Input to 4 HDMI outputs				
	UPS (1 unit)				
	Output Power Capacity: 325 Watts/650VA				
	Output Frequency: 50/60 Hz +/-1 Hz				
	Output Connections: (2) Universal Receptacle				
	Nominal Input Voltage: 230V				
	Input Connections: NEMA 5-15P				
	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
	☑OS: Android				
	☑CPU Speed: 2 GHz				
	☑CPU Type: Octa-Core				
	☑Display: Resolution (Main Display): 2000 x 1200 (WUXGA+)				
	☑Color Depth (Main Display): 16M				
	☑Technology (Main Display): TFT				
	☑Form Factor: Tablet				
	☑Camera: Rear Camera - Resolution: 8.0 MP				
	☑Front Camera - Resolution 5.0 MP				
	☑Rear Camera - Auto Focus: Yes				
	☑Video Recording Resolution:FHD (1920 x 1080) @ 30fps,				
	☑Memory: RAM: 3GB				
	☑External Memory Support: MicroSD (Up to 1TB)				
	☑ROM Size: 64GB				
	☑Sensors: Accelerometer, Gyro, Sensor, Geomagnetic Sensor, Hall Sensor, Light Sensor				
	☑Battery Capacity: mAh, Typical 7040				
	☑Network/Bearer: GSMGSM850, GSM900, DCS1800, PCS1900, 3G UMTSB1 (2100), B2 (1900), B4 (AWS), B5 (850), B8 (900), 4G FDD LTEB1 (2100), B2, (1900), B3 (1800), B4 (AWS), B5, (850), B7 (2600), B8 (900), B12,(700), B17 (700), B20 (800), B28, (700), B66 (AWS-3),4G TDD LTEB38 (2600), B40,(2300),				
	☑Connectivity: Location Technology GPS, Glonass, Beidou, Galileo USB Version USB 2.0				
	☑Earjack3.5mm				
	☑Stereo				
	☑1Wi-Fi802.11 a / b / g / n / ac				
	☑2.4G+5GHz, VHT80				
	☑Bluetooth Version Bluetooth v5.0				
	☑Bluetooth ProfilesA2DP, AVRCP,				
	☑DI, HFP, HID, HOGP, HSP, MAP, OPP, PAN, PBAP				
	☑PC Sync. Smart Switch (PC version)				
	☑Audio and Video: Video Playing				



	<ul style="list-style-type: none"> ■FormatMP4, M4V, 3GP, 3G2, WMV, ASF, AVI, FLV, MKV,WEBM 				
	<ul style="list-style-type: none"> ■Audio Playing FormatMP3, M4A,3GA, AAC, OGG, OGA, WAV,WMA, AMR, AWB, FLAC, MID,MIDI, XMF, MXMF, IMY, RTTTL,RTX, OTA 				
	<ul style="list-style-type: none"> ■Video Playing Resolution FHD(1920 x 1080) @ 60fps 				
				TOTAL:	7,955,571.43

V. TERMS OF REFERENCE

1. Technical Specifications

The offer must meet the following specifications:

1.1. UPS System

- 1.1.1. The UPS system shall be rated 15,000VA/15,000W
- 1.1.2. The UPS system shall have an approximate backup runtime of 14 minutes at 7500W of load.
- 1.1.3. The UPS system should be Double Conversion Online with Sinewave waveform.
- 1.1.4. UPS Input
 - 1.1.4.1. Flexible input, single or 3-phase input
 - 1.1.4.2. 220/230/240 volts single phase, 380/400/415 volts three-phase
 - 1.1.4.3. 40-70 Hz auto-sensing
 - 1.1.4.4. Crest factor: 3:1.
- 1.1.5. UPS Output
 - 1.1.5.1. Flexible output, single or 3-phase input
 - 1.1.5.2. 220/230/240 volts single phase, 380/400/415 volts three-phase
 - 1.1.5.3. Harmonic distortion: less than 5%
 - 1.1.5.4. 50/60 Hz
 - 1.1.5.5. Crest factor: 3:1
 - 1.1.5.6. Overload protection: 60 seconds at 125% load
 - 1.1.5.7. Built-in static bypass
- 1.1.6. Hardwired input and output
- 1.1.7. Operating Ambient Temperature: 0°C to +40°C (+32°F to +104°F). (+25°C (+77°F)
- 1.1.8. Relative Humidity: 0 to 95% non-condensing
- 1.1.9. Storage altitude: 15,000 (50,000 feet) above sea level
- 1.1.10. Operating altitude: 3,000m (10,000 feet) above sea level. At an altitude of 3,000m the UPS shall be capable of supporting a load of up to 90% of its nominal capacity.
- 1.1.11. 58 dBA audible noise
- 1.1.12. Warranty
 - 1.1.12.1. Standard warranty shall be 3 years for the base unit
 - 1.1.12.2. Standard warranty for external battery cabinet shall be 2 years.

1.2. Precision Airconditioning Unit

- 1.2.1. The proposed PACU shall be an in-row, air-cooled system
- 1.2.2. The proposed PACU shall have an input voltage of 230V, 60Hz, single phase for the indoor unit
- 1.2.3. The proposed PACU shall have a cooling capacity up to 30kW.
- 1.2.4. The proposed PACU shall have humidifier to control server room humidity.
- 1.2.5. Air flow rate at least 1600 L/s
- 1.2.6. The proposed PACU shall have a horizontal air discharge pattern.
- 1.2.7. The proposed PACU shall have a rear return air intake.



- 1.2.8. The proposed PACU compressor shall be scroll type.
 - 1.2.9. The proposed PACU shall have a menu display that allows monitoring and configuration of the air conditioning unit through a menu-based control.
 - 1.2.10. The proposed PACU shall have functions such as status reporting, set up and temperature set points.
 - 1.2.11. The proposed PACU shall be equipped with microprocessor controller with controller key that enables navigation between menus, select items and input alpha numeric information.
 - 1.2.12. The proposed PACU shall be able to present audible and visible alarms in the occurrence of faults or events.
 - 1.2.13. The proposed PACU shall have an installed Network Management Card for added remote monitoring through TCP/IP.
 - 1.2.14. The network management card shall have the function to change set points as well as view and clear alarms
 - 1.2.15. Physical parameters for indoor unit
 - 1.2.15.1. Maximum height should be 1991mm
 - 1.2.15.2. Maximum width should be 300mm
 - 1.2.15.3. Maximum depth should be 1070mm
 - 1.2.15.4. Net weight should be lesser than 200kg.
 - 1.2.15.5. Color should be black.
 - 1.2.16. Approvals for indoor unit
 - 1.2.16.1. CE, cUL listed, UL listed
 - 1.2.17. The outdoor unit should have:
 - 1.2.17.1. 400V, 3-phase input
 - 1.2.17.2. Single feed
 - 1.2.17.3. Scroll-type compressor
 - 1.2.17.4. Copper tubing material
 - 1.2.17.5. cUL and UL listed
 - 1.2.18. Warranty
 - 1.2.18.1. Standard warranty shall be 1 year (parts only) onsite repair or replace
 - 1.2.18.2. Semi-annual preventive maintenance
 - 1.2.19. Shall include electro-mechanical works for the precision aircon (piping, gases, supports, brackets, necessary works/materials needed for PACU to function) with 1 year workmanship warranty
 - 1.2.20. Install backup 2.0HP Inverter and split type aircon with remote
- 1.3. Container Van
 - 1.3.1. 20-foot container van to be converted as server room/data center
 - 1.3.2. Insulated interior
 - 1.3.3. Steel doors with hinges and stainless steel door knob
 - 1.3.4. No windows
 - 1.3.5. With electrical outlet provision and lighting
 - 1.3.6. With cable entry provision and sealed
 - 1.3.7. Includes hauling and positioning; VSU to provide platform

2. Bidder Qualifications

The bidder must have the following competencies:

- 2.1. Must have a local office in Visayas for faster onsite support if needed
- 2.2. Must be in the ICT business for at least 20 years
- 2.3. Must be a certified reseller of the solutions proposed
- 2.4. Must employ a Certified Data Center Professional (CDCP) and registered electrical engineer
- 2.5. Must have PCAB for communication facilities license issued by DTI



- 2.6. Must have a project management team with certified project management professional (PMP) to oversee the project implementation and execution
- 2.7. Must have 24x7 service desk facility reachable via SMS, email, phone with 30 minutes to 1 hour response time

3. Scope of Work

The winning bidder shall deliver the following scope:

- 3.1. Low level design preparation
- 3.2. Assign a project engineer/manager to oversee project implementation
- 3.3. Deliver and hauling of items to project site at VSU Baybay
- 3.4. Installation and configuration
- 3.5. User acceptance testing
- 3.6. Knowledge transfer
- 3.7. Submit as-built documentation (diagram, plans)
- 3.8. Fulfill warranty and technical support request
 - 3.8.1. 1 year vendor support
 - 3.8.2. 1 year bidder remote and onsite support

A handwritten signature in blue ink, appearing to read 'Dilberto O. Ferraren'.

DILBERTO O. FERRAREN
BAC Chairman