



PURCHASE REQUEST

Dept./Office: **UCC**

PR #: **GF -2020-10-00003**

Date: **10-09-2020**

Section/End-User: **Norman O. Villas**

Category: **IT Supplies and Equipment**

Funding Source: **General Fund - CO**

Project Title/Code: **MIS**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Analog Cards 4-port (FXS/FXO)	unit	1	20,000.00		20,000.00
Specification: FXO and FXS card 2 channels each for Yeastar S300 module						
2	Branded Desktop computer	set	50	60,000.00		3,000,000.00
Specification: Processor Up to AMD Ryzen™ 5 Operating System Up to Windows 10 Pro Graphics Integrated AMD graphics Discrete NVIDIA GeForce® GT 730 Memory at least 8GB DDR4 2666 MHz Storage: at least 1TB 7200rpm SATA HDD and Up to 512GB PCIe SSD Security :Trusted Platform Module firmware Smart USB protection in BIOS Disable I/O ports in BIOS: USB & audio Connectivity: WiFi ac 1 x 1 Bluetooth® Front Ports at least 2 x USB 3.1 Gen 1 at least 2 x USB 2.0						

Mic

7-in-1 card reader (optional)

Rear Ports:

at least 2 x USB 2.0

VGA

HDMI

Audio in

Audio out

Mic

RJ-45

Parallel port (optional)

Green Certifications

Energy Star® 7.0

EPEAT™ Silver

RoHS/Reach/WEEE

Color Black

with USB Keyboard and Mouse

Monitor: at least 23 inches TFT LCD/LED, at least 1920x1080 addressability, at least 16 million colors, 100-240VAC, 50/60Hz

UPS: at least 600VA, Typical recharge time: at most 4 hour

3	Computer Server	unit	4	350,000.00		1,400,000.00
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Specification:

Form Factor/Height 4U rackable tower

Number of Processors Up to 2 second-generation Intel® Xeon® Platinum processors, up to 125W

Memory Up to 64GB DIMMs; 2666 and 2933MHz TruDDR4

Expansion Slots Up to 6x PCIe 3.0 (with 2x processors)

Drive Bays 8x 2.5" (including 4 NVMe) bays Plus up to 2x 2.5" and 2x internal M.2 boot

HBA/RAID Support Software RAID (4x ports) standard; optional hardware RAID (up to 24x ports); up to 16-port HBAs

Security and Reliability Features , lockable security bezel, Kensington lock slot, chassis intrusion switch, TPM 1.2/2.0, Predict Failure Analysis, hot-swap/redundant drives, redundant PSUs

Power (Energy Star 2.1 compliant) 1x 450W 80 PLUS Gold (fixed); or 2x 550W/750W/1100W 80 PLUS Platinum (hot-swap/redundant N+1); or 2x 750W 80 PLUS Titanium (hot-swap/redundant)

Systems Management XClarity Controller embedded management, XClarity Administrator centralized infrastructure delivery, XClarity Integrator plugins, XClarity Energy Manager centralized server power management

OSes Supported Microsoft Windows Server, SUSE, Red Hat, VMware vSphere.

Limited Warranty 1-year and 3-year customer replaceable unit and onsite service, next business day 9x5

4	Fiber Optic Backbone Cabling With Fiber Switch	lot	1	9,250,000.00		9,250,000.00
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Specification:

(3 Kilometer Single Mode 6 core Fiber Optic Cabling and Installation and components at VSU main and satellite campuses)

Fiber Express Tactical Cable, 6-Fiber, OS2, with Black Jacket, Small & Lightweight, Ideal for repeated deployment and retrieval cycles, superior crush

resistance.

Fiber count: 6

Thermoplastic 900 +35um/-50um

Number of Jackets: Single Jacket

Max Attenuation at 1310 nm: 0.5

Max Attenuation at 1550 nm: 0.5

Wavelength: 1310/1550

10 Gigabit Ethernet Performance: 10,000/40,000

1 Gigabit Ethernet Performance: 5000/-

Cable Min. Bend Radius Installation (Short Term) 20x

Cable Min. Bend Radius Operation (Long Term) 10x

Cable Max. Tensile Strength Installation (Short Term) 330 N (74 lbf)

Cable Max. Tensile Strength Operation (Long Term) 150 N (34 lbf)

Operating Temp Range: -46C to +85C

Installation Temp Range: -55°C To +85°C

Storage Temp Range: -70°C To +85°C

RoHS Compliant

5 units Fiber Switch 48p 10G SFP/SFP+ and 6p 40G QSFP+ with X472 5 Fans 2 Power Supply Switch Bundle

5	Laptop, 14 inch display, Core i7 10th Generation or Higher	unit	170	60,000.00		10,200,000.00
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Specification:

Processor: Intel Core i7-1065G7 or higher (1.3/3.9GHz, 8MB Cache)

Graphics: NVIDIA GeForce MX250 at least 2GB GDDR5

Memory: at least 8GB DDR4-2666

Storage: at least 256GB SSD M.2 + 1TB HDD

Display: 14" FHD (1920x1080) TN 220nits Anti-glare

Touchscreen: None

Optical: None

Media Reader: 4-in-1 Card Reader

Ethernet: None

WLAN + Bluetooth

Camera: at least 720p

Microphone: at least 2x, Array

Operating System: Windows 10 Home

Bundled Software: Microsoft Office Perpetual License

FREE: Backpack

1 year Warranty

6	Unifi 500W PoE+ Switch	unit	100	35,000.00		3,500,000.00
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Specification:

24 ports PoE+ Switch 500W

Network Interfaces: (24) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports

Management Interface: (1) RJ45 Serial Port Out-of-Band, Ethernet In-Band

Total Non-Blocking Throughput : 26 Gbps

Switching Capacity: 52 Gbps

Forwarding Rate: 38.69 Mpps

MAC Address Table: 16384

Monitoring Sessions 1

Maximum VLANs 255

Power Method 100-240VAC/50-60 Hz, Universal Input

Power Supply AC/DC, Internal, 500W DC

Max. Power Consumption: Including PoE Output: 500W Excluding PoE Output: 30W

ESD/EMP Protection Air: ± 24 kV, Contact: ± 24 kV

Shock and Vibration ETSI300-019-1.4 Standard

Operating Temperature -5 to 40° C (23 to 104° F)

Operating Humidity 5 to 95% Noncondensing

Certifications CE, FCC, IC

PoE Interfaces PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-) 24VDC Passive PoE (Pins 4, 5+; 7, 8-)

Max. PoE+ Wattage per Port by PSE 34.2W

Voltage Range 802.3at Mode 50-57V

Max. Passive PoE Wattage per Port 17W

24V Passive PoE Voltage Range 20-27V

Should be compatible with existing Unifi Controller

1 year warranty

7	VOIP Gateway (FXS/FXO)	unit	1	35,000.00		35,000.00
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Specification:

at least 50 Users

at least 25 Concurrent Calls

Up to 8 FXS/FXO/BRI Ports

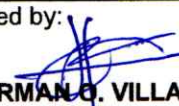
Up to 4 GSM/3G/4G Channel

50 VoIP Trunks

Must be compatible with existing Yeastar S300

	TOTAL					27,405,000.00
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Purpose: FOR MIS use

DIONESIO T. ESTUPA		MYRNA S. FANCIO	
TWG - IT Supplies and Equipment		HEAD, BUDGET OFFICE	
Signature:	Requested by: 	Noted by: 	Approved by:
Printed Name:	NORMAN O. VILLAS	SEAN O. VILLAGONZALO	EDGARDO E. TULIN
Designation:	END USER	UNIT HEAD, PROJECT LEADER	PRESIDENT, VSU