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

PURCHASE REQUEST

PR No.: **TF-2025-04-00483**   Date: **04-14-2025**

PPMP No. : **PPMP-2025-021425-0969**

Dept./Office: **DCST**

Category: **IT Supplies and Equipment**

Section/End-User: **Michael Anthony Jay B. Regis**

Project Title/Code: **20201050-10.120 Development of Smart Mobile App and (SBC) Device for Detecting Feed Adulterants**

Funding Source: **Trust Fund**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	Digital Microscope Camera,HDMI 48 MP (wtih 130X C Mount Lens+ LED Ring Light + Metal Stand)	unit	1	8,000.00		8,000.00

Specification:

Camera:

- Sensor: 1/2.8 inch Sony IMX335 CMOS sensor
- Pixel size: 48MP
- USB interface: USB2.0 X2 (plug U disk, connect mouse)
- HDMI output: 1920*1080 60 frames
- Lens interface: C interface
- Exposure: One-button exposure/automatic exposure
- White balance: one-key white balance/auto white balance
- Storage: Support U disk storage, mouse operation
- Import PNG: Support U disk to import PNG files to the camera
- Input voltage: DC 5V-12V
- Cross line: Support center cross line, a total of 8 (color, position adjustable)
- Line drawing: 12 kinds of measurement functions such as line drawing, straight line and circle are supported.

1X-130X Zoom C-mount Lens:

- Work distance: 40mm-200mm
- Zoom ratios: 1:17
- Magnification Power by 0.1 - 1.3X (about 1 - 130X on the display)
- view field of Max multiple : 8mm*4.5mm
- view field of Min multiple : 40mm*33mm

LED Ring Light

Metal Stand

2	DSLR Camera, Mirrorless with 18-45mm lens	unit	1	60,000.00		60,000.00

Specification:

- 24.2MP APS-C CMOS Sensor

- DIGIC X Image Processor
- UHD 4K 30p Video Recording
- Dual Pixel CMOS AF II with 651 Points
- 2.36m-Dot Electronic Viewfinder
- 3.0" 1.62m-Dot Vari-Angle Touchscreen
- 15 fps Electronic Shutter
- Movie for Close-Up Demos Mode
- Vertical Movie Mode
- Comes with RF-S 18-45mm f/4.5-6.3 IS STM Lens

3	High Performance Computing Desktop with Monitor, Keyboard and Mouse	unit	1	250,000.00		250,000.00

Specification:

- Intel Core i7-14700KF Processor or higher
- z790 Chipset LGA 1700 Motherboard
- 64GB (16GB x4) DDR5 RAM or higher
- 1TB M.2 2280 NVMe PCIe 4.0 SSD or higher
- NVIDIA GeForce RTX 4080 16GB GDDR6X or higher
- 802.11ax WiFi 6e + BT
- 850W power supply (80+ Gold, peak 900W) or higher
- Windows 11
- 24.5" FHD IPS Freesync LED Monitor
    - Panel: In-Plane Switching
    - Response Time: 1ms(VRB)
    - Contrast Ratio: 100 million:1 max (ACM)
    - Brightness: 250 nits (cd/m2)
    - Viewing Angle: 178° (H), 178° (V)
    - Colors: 16.7M
    - Bits / Color gamut: 6Bit+FRC/sRGB 99%
- Mechanical Keyboard and Gaming Mouse
- With Windows 11 OS
- With 2000W Servo-controlled AVR

4	Laptop, Core i7 13th Gen, RTX 4060	unit	1	130,000.00		130,000.00

Specification:

- 13th Gen Intel Core i7-13650HX Processor 2.6 GHz 24M Cache, up to 4.9 GHz, 14 cores: 6 P-cores and 8 E-cores) or higher
- 16GB DDR5-4800 SO-DIMM or higher
- 1TB PCIe 4.0 NVMe M.2 SSD or higher
- 16-inch 2560 x 1600, WQXGA IPS-level anti-glare display
- NVIDIA GeForce RTX 4060 Laptop GPU or higher
- 8GB GDDR6 | Wi-Fi 6E(802.11ax) (Triple band) 2*2 + Bluetooth® 5.3 Wireless Card
- Windows 11 Home

5	Raspberry Pi 5 Kit (with Raspberry Pi Touch Screen, 8 MP Camera Module, and MicroSD Card)	unit	3	17,000.00		51,000.00

Specification:

- Raspberry PI 5 Single Board Computer
  - Broadcom BCM2712 2.4GHz quad-core 64-bit Arm Cortex-A76 CPU, with cryptography extensions, 512KB per-core L2 caches and a 2MB shared L3 cache
  - VideoCore VII GPU, supporting OpenGL ES 3.1, Vulkan 1.2
  - Dual 4Kp60 HDMI® display output with HDR support
  - 4Kp60 HEVC decoder
  - LPDDR4X-4267 SDRAM (4GB and 8GB SKUs available at launch)
  - Dual-band 802.11ac Wi-Fi®
  - Bluetooth 5.0 / Bluetooth Low Energy (BLE)
  - microSD card slot, with support for high-speed SDR104 mode
  - 2 × USB 3.0 ports, supporting simultaneous 5Gbps operation
  - 2 × USB 2.0 ports
  - Gigabit Ethernet, with PoE+ support (requires separate PoE+ HAT)
  - 2 × 4-lane MIPI camera/display transceivers
  - PCIe 2.0 x1 interface for fast peripherals (requires separate M.2 HAT or other adapter)
  - 5V/5A DC power via USB-C, with Power Delivery support
  - Raspberry Pi standard 40-pin header
  - Real-time clock (RTC), powered from external battery
  - Power button
- 7 inch HDMI LCD for Raspberry Pi Capacitive Touch Screen 1024×600
  - 7inch IPS screen,1024x600 hardware resolution, configurable by software (up to 1920x1080)
  - Toughened glass capacitive touch panel, 6H hardness
  - Supports popular mini PCs such as Raspberry Pi, Jetson Nano, BB Black, Banana Pi,
- Raspberry Pi 5 Camera Module with 8MP IMX219 Chip 77° 120° 160° FOV For Choice With High Quality Acrylic Bracket 22Pin-FPC Cable
- 256 GB Micro SD Card
  - Up to 140MB/s write speeds
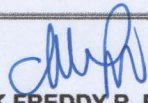 - Up to 100MB/s read speeds
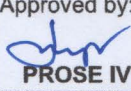
6	Server Tower Type 32GB RAM with 1200VA UPS	unit	1	180,000.00		180,000.00

Specification:

- Processor: Intel Xeon E-2224 /3.4 GHz /s4C/4T, 8M Cache, Turbo, 71W or higher
- Memory: 32GB DDR4 ECC UDIMM (8GB x 1), 2666MT/s or higher
- Network Controller: Onboard Broadcom 5720 Dual Port 1Gb LOM or higher
- Storage Controller: PERC H330 Integrated RAID Controller, Adapter, Full Height or higher
- Hard Drive: 4TB 7.2K RPM (2 x 2TB) SATA 6Gbps 3.5" Hot Plug HDD or higher
- Optical Drive: Internal DVD+/- RW Drive
- Power Supply: Single Hot Plug Power Supply (1+0), 495W
- Management: iDRAC8, Express
- Form Factor: Tower Server
- With UPS 1200VA, 230V
  - Main Input Voltage: 230 V AC 1 phase
  - Main Output Voltage: 230 V AC 1 phase
  - Rated power in W: 650 W
  - Rated power in VA: 1200 VA

- Product or component type: Uninterruptible power supply (UPS)
- Input Connection Type: IEC 60320 C14
- output connection type: 4 universal 1 IEC 60320 C13
- Network frequency: 50/60 Hz +/- 5 Hz auto-sensing
- Input voltage limits: 140...300 V 230 V AC
- Cos phi: 0.51
- Maximum configurable power in W: 650 W
- Output frequency: 50/60 Hz +/- 1 Hz sync to mains
- UPS type: Line interactive
- Wave type: Stepped approximation to a sinewave
- Full load runtime: 00:01:00 650 W
- Graph display: 1

						TOTAL	679,000.00

Purpose: For Reseach use

Checked by:		Funds Available:	
NORMAN O. VILLAS		**NICK FREDDY R. BELLO** GB	
TWG - IT Supplies and Equipment		HEAD, ACCOUNTING OFFICE	

	Prepared by:	Noted by:	Approved by:
Signature:			
Printed Name:	**MICHAEL ANTHONY JAY B. REGIS**	**MANUEL D. GACUTAN JR.**	**PROSE IVY G. YEPES**
Designation:		UNIT HEAD, PROJECT LEADER	PRESIDENT, VSU