

Republic of the Philippines

CAVITE STATE UNIVERSITY

MAIN CAMPUS

INDANG, CAVITE

SUPPLY, DELIVERY, INSTALLATION AND CONFIGURATION OF VARIOUS EQUIPMENT FOR CVSU-ROSARIO CAMPUS

ABC: ₱1,560,000.00 / F164

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Item No.	Quantity	Specification	Unit Price	Total
1	1 unit	Build volume: 230x190x200mm Feeder type: Dual-geared feeder, reinforced for composite materials Build plate leveling: Advanced active leveling Layer resolution: 0.25 mm nozzle: 150 - 60 micron; 0.4 mm nozzle: 200 - 20 micron; 0.6 mm nozzle: 300 - 20 micron; 0.8 mm nozzle: 600 - 20 micron Speed and precision: Print speed: Min. 30- Max. 300mm/s Travel speed: Min. 30- Max. 350mm/s up to 16mm3/s Precision: 6.9/6.9/2.5 micron Nozzle options: 0.25mm / 0.4mm /0.6mm/0.8mm and more++ Print surface: Heated Borosilicate Glass build plate; Bed; 20-140C Heat-up Time: <2mins Auto detection of materials thru NFC technology material Input Sound Operation level: 50db Supported Filament: PLA, PVA, ABS, CPE, CPE+, Nylon, PC, PP and more Composite materials compatible: Print parts with high strength and unique properties Display: 4.7-inch Software: Compatible with any popular slicing software Printer management software Training and knowledge transfer	250,000.0	250,000.00
2	2 unit	3D scanner	180,000.0 0	180,000.00
		accuracy ≤ 0.1 mm; min scan volume: 30x30x30 mm; max scan volume: 700x700x700 mm; camera resolution, 1.3 MP; file format, OBJ, STL, ASC, PLY	1	+

Mode of Alignment: Feature & Manual for Fixed scan; Turn table & Manual for Auto scan Single Shot Accuracy: ≤ 0.1 mm Minimum Scan Volume: 30 x 30 x 30 mm Maximum Scan Volume: 700x700x700 mm on Fixed Scan 200x200x200 mm on Auto Scan Range of Single Capture: 200x150 Scan Speed: <8 s Point Distance: 0.17 mm ~ 0.2 mm Texture: Yes File Format: OBJ, STL, ASC, PLY Camera Resolution: 1.3 Mega Pixels Stand-off Distance: 290 - 480 mm Light Source: White Light Weight (packed) & Dimension: 4.9 kg, 570x210x210 mm Power Supply, Voltage40w, DC: 12 v, 3.33 A Standard Calibration Board

Certified Correct:

EMELINE C. GUEVARRA

Standard Turn table

TWG Chair, Computer and Office Equipment TWG Member, Computer and Office Equipment

R. CRUSIS

Computer and Office

Item No.	Quantity	Specification	Unit Price	Total
3	1 unit	Ath rotary axis CNC router lathe machine Table Size: 4x8 feet (48 x 96 inches, 1300 x 2500mm) Working Area: 1300x2500x200mm Traveling Positioning Accuracy: +0.03/300mm Repositioning Accuracy: +0.03rmm Table Surface T-slot Table, with Vacuum Working Table Frame Welded Structure XIY Structure Helical rack, HIWIN Rail Linear Bearings Z Structure HIWMN Rail Linear Bearings and Ball Screw Max Power Consumption: 3.2KW (Without Spindle) Max. Rapid Travel Rate: 33000mm/min Max. Working Speed: 25000mm/min Spindle Power: 3KW water cooling spindle with HSD Spindle. Spindle Speed: 0-24000RPM Drive Motors Lead shine Working Voltage: AC380V/50/60Hz, 3PH, 220V-240V	450,000.0 0	450,000.00
	1 unit	Programmable Logic Controller (PLC) Number of Inputs: 8 (Digital, 2 switch as Analogue) Output Type: Digital, Relay Supply Voltage: 85 → 264 V Input Type: Analogue, Digital Number of Digital Inputs: 8 Number of Outputs: 6 (Digital Output, Relay Output) Number of Digital Outputs: 6 Maximum Operating Temperature: +60°C Dimensions: 100 x 90 x 75 mm Depth: 75mm Length: 100mm Width: 90mm Mounting Type: DIN Rail Wall Mount Programming Language Used: FBD, LAD, SCL Number of Communication Ports: 1 Output Current: 2A	25,000.00	25,000.00
5	I unit	Human Machine Interface (HMI) Type: Touchscreen HMI Display Size: 7-inch to 10-inch diagonal Resolution: 800x480 pixels or higher Processor: Multi-core processor for fast response Memory: 512 MB RAM, 4 GB Flash Memory	50,000.00	50,000.00

		Features: Touchscreen: Capacitive or resistive touchscreen for intuitive interaction Communication Ports: Ethernet, USB, RS232, RS485 Supported Protocols for popular digital communication system for all areas of application in manufacturing, robotics and automation. Programming Software: User-friendly software for HMI configuration and programming Built-in data logging capability Alarm Management: Support for alarm monitoring and management Remote Access: Ability to access HMI remotely for monitoring and troubleshooting Enclosure: IP65-rated enclosure for protection against dust and water Mounting: Panel mount or DIN rail mount options Operating Temperature: -10°C to 60°C Power Supply: 24V DC Included Accessories: Mounting Hardware-Mounting brackets		
6	1 unit	Mini desktop laser cutting engraver machine Cutting speed: 0-600 mm/s Mini Desktop Laser Cutting and Engraving Machine Laser Power: 40W - 60W CO2 Laser Work Area: 300mm x 500mm Resolution: Up to 1000 dpi Cooling: Water cooling system Operating Temperature: 5°C - 45°C Features: Software Compatibility with popular Computer Aided Design and Slicing Software. Supported File Formats: AI, DXF, PLT, BMP, JPG, PNG, TIF Control System: DSP Display: LCD Connectivity: USB, Ethernet, Wifi Exhaust System: Built-in exhaust fan and air assist Safety: Protective cover, emergency stop button Included Accessories: Laser Head: Adjustable focus Water Pump: For cooling Exhaust Fan: For ventilation Air Pump: For debris removal Work Table: Honeycomb -Rotary attachment for cylindrical objects Engraving Speed: Up to 500mm/s Cutting Speed: Up to 80mm/s Minimum Letter Size: 1.0mm x 1.0mm	160,000.0	160,000.00

		Repeatability: ±0.01mm		
		Power Supply: AC 110V/220V, 50-60Hz Dimensions: 800mm x 600mm x 400mm (L x W x		
		H)		
		Weight: Around 45-50 kg		
		Analytical balance		
		Readability: 0.1 mg (0.0001 g)		
		Capacity: 200 g		
		Repeatability: ±0.1 mg		
		Linearity: ±0.2 mg		
		Pan Size: 90 mm in diameter		
		Stabilization Time: 2-5 seconds		
		Calibration: Internal automatic calibration		
		Display: Digital LCD with backlight		
		Features:		
		Draft Shield: Enclosed glass draft shield to protect		
		the weighing chamber from air currents and		
		contaminants		
	1 unit	Tare Function: Allows for the subtraction of the	60,000.00	60,000.00
		container weight to measure the net weight of the		
		sample		
		Built-in Applications: Standard applications for		
		density determination, formulation, and piece		
		counting Communication Ports: USB and RS232 for data		
		transfer to computers and other devices		
		Leveling Feet and Bubble Level: Ensures the		
		balance is level for accurate measurements		
		Overload Protection: Prevents damage from		
		excessive weight		
		Operating Temperature: 10°C to 30°C		
7		Power Supply: AC adapter (110V/220V)		
8	1 unit	Air compressor	25,000.00	25,000.00
		5HP, single-phase induction motor, tank	(50)	1000
		capacity 155L, pressure 115psi maximum pressure		
		, 3 cylinders, direct on-line start mechanism, air-		
		cooled cooling system, oil lubricated pump type,		
		220-240V 50/60hz		
		Tank Material: Steel		
		Pump Material: Cast iron or aluminum		
		Safety Valve: Integrated safety valve for overpressure protection		
		Pressure Gauge: Dual pressure gauges (one for	×	
		tank pressure, one for output pressure)		
		Drain Valve: Manual drain valve at the bottom of		
		the tank for moisture release		
		Portability: Wheels and handle for easy movement		
		Noise Level: Approximately 70-80 dB		
		with Thermal Overload Protection,		
		Automatic Shut-off, Replaceable air filter,		

9	1 unit	Built-in pressure regulator Included Accessories: Air Hose: 1 air hose (length varies) Couplers: Standard quick-connect couplers Oil: Initial fill of compressor oil Digital handheld oscilloscope 2 channels Bandwidth: 100 MHz Sample Rate: 1 GSa/s (giga-samples per second) Display: 7-inch TFT LCD Memory Depth: 2 Mpts (mega-points) per channel Trigger Types: Edge, Pulse Width, Video, Slope, Alternate Input Impedance: 1 MΩ Vertical Sensitivity: 2 mV/div to 10 V/div Time Base Range: 5 ns/div to 50 s/div Waveform Math: Addition, Subtraction, Multiplication, Division Automatic Measurements: Voltage, Time, Frequency, Phase, etc. Connectivity: USB Ports: USB host and device for data transfer and PC connectivity LAN Port: Ethernet for network connectivity Battery Life: Up to 4 hours of continuous use Power Supply: Rechargeable lithium-ion battery and AC adapter Physical Characteristics: Weight: Approximately 1.5 kg Dimensions: 260 mm x 160 mm x 60 mm (L x W x H) Operating Temperature: 0°C to 50°C Included Accessories: Probes: 2 high-quality passive probes (10:1) USB Cable: For PC connectivity and data transfer Power Adapter: For charging and AC	60,000.00	60,000.00
		operation Protective case for portability		5

Certified Correct:

MICHAELIV. COSTA
TWG Chair, Electronics and Communication
Engineering (ECE) Equipment

EDWIN R ARBOLEDA
TWG Member, Electronics and Communication
Engineering (ECE) Equipment

Item No.	Quantity	Specification	Unit Price	Total
	1 unit	Industrial Welding machine (TIG) Type: TIG (GTAW) Welder Input Voltage: 220-240V, 50/60Hz (single-phase) Amperage Range: 5-300 A Duty Cycle: 60% at 250A Welding Processes: TIG (AC/DC), Stick (SMAW) Pulse Function: Adjustable pulse frequency, width, and peak current AC/DC Capability: For welding various metals including aluminum (AC) and stainless steel (DC) HF Start: High-frequency start for non-contact arc initiation Foot Pedal Control, Digital Display, Pre/Post Flow Control: Adjustable gas flow before and after welding Cooling System -Integrated fan cooling Weight: Approximately 25-30 kg Dimensions: 500 mm x 300 mm x 400 mm (L x W x H) Portable Design: Handles or wheels for easy transport Included Accessories: TIG Torch: High-quality TIG torch with consumables Amperage control, Foot Pedal Heavy-duty ground clamp, Electrode Holder	150,000.0	150,000.00
9 10	1 unit	Gas Hose, Argon gas regulator with flow meter Industrial Welding machine (MIG) MIG (GMAW) Flux-Cored (FCAW) Welder 3 Phase AC220V 60Hz, 30-500 A,Duty Cycle: 400 A/36V/60% at 40°C Wire Feed Speed Range: 50-700 ipm (1.3- 17.7 m/min) Max. Spool Size: 12 inches (30 cm) Weight: Approximately 200 lbs (90 kg) Display: Digital Meter Display for Voltage and Amperage Cooling: Fan-On-Demand for reduced power consumption and noise with included accessories: MIG Gun: 15 ft. (4.5 m) MIG Gun Work Cable and Clamp: 10 ft. (3 m) Gas Regulator and Hose: Dual-gauge regulator with hose Drive Rolls and Guide: For .025045 in (0.6-1.2 mm) wire sizes Contact Tips: Assorted tips for various wire	150,000.0	150,000.00

sizes • Spool Adapter: For 8 in (20 cm) or 12 in (30
cm) spools Additional Features:
Adjustable Burnback Control: To optimize starting and stopping points
Tool-less Design: For quick and easy wire drive service
Dual Gear-driven System: For consistent wire feeding
Advanced Interface: For easy setup and operation with intuitive controls
Built-in Thermal Overload Protection: To prevent overheating
Spool Gun Ready: For aluminum welding applications

Certified Correct;

TWG Chair, Air-conditioning, Transportation

Transportation

Equipment and Other Machineries

ARTURO C ERAÑA TWG Chair, Air-conditioning,

Equipment and Other Machineries

TWG Chair, Air-conditioning, Transportation Equipment and Other Machineries