



Republic of the Philippines  
**CARAGA STATE UNIVERSITY**  
Ampayon, Butuan City 8600, Philippines  
Competence Service Uprightness  
**PROCUREMENT OFFICE**



PHONE: 0917 707 8713 Loc. 248 | EMAIL: csuprocurement@carsu.edu.ph

## NOTICE OF AWARD

March 21, 2024

SMARTRONICS COMPANY  
P-6, Libas Jabonga, Agusan del Norte 8607

Dear Sir / Madam:

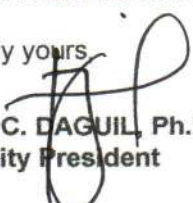
We are happy to notify you that the PROVISION OF ELECTRONICS PARTS AND COMPONENTS AND OTHER MATERIALS FOR THE OPERATION OF DOST PCIEERD PROJECT 1 ICT4RM 2.0: YR2 AND PROJECT 2: MINE GEARS YR2. TRF-184-24-03-01 is hereby awarded you as the bidder with the Lowest Calculated and Responsive Quotation at a Contract Price of Equivalent to FOUR HUNDRED SIXTY-TWO THOUSAND THREE HUNDRED THIRTY-NINE AND 470/1000 PESOS ONLY. (Php. 462,339.47).

QTY	Unit	Description	BID PRICE	TOTAL PRICE
1	LOT	3D PRINTER FILAMENT, *PLA 1.75, 0.02mm. *N.W: 1.0kg. *Nozzle Temp: 190-230C. *Color: Black 2Pcs. White 2Pcs. 2pcs Bone White. 2pcs light blue. UNIT: SET, QUANTITY: 1 3D PRINTER HOTBED, *Size: 235 x 235mm. *Suitable temperature: less than or equal 80C. UNIT: UNIT, QUANTITY: 4 3D PRINTER NOZZLES KIT, *2 x PC4-01 pneumatic connector. *2 x PC4-m6 extruder pneumatic connector. *3 x insulated. *10 x brass nozzle 1.75 / 0.4mm. *1 x open-end wrench. *3 x heating block. *3 x silicone socks. *1 x 2mm wrench (2 x 16 x 50). *5 x 0.4mm cleaning sier. *5 x AST0.35mm gold. *1 x 1 meter PTFE tube 2 x 4mm. *1 x PT.ESD-15 tweezers. *1 x PT.ESD-12 tweezers. *1 x No. 17 stainless steel shovel (the handle is plastic). *1 x No. 4 stainless steel shovel (the handle is plastic). *1 x L-shaped wrench Only the above package content, other products are not included. UNIT: SET, QUANTITY: 3 ACRYLIC SHEET, *Materials: Acrylic. *Color: Clear. *Size: 3mm (4ft. x 4ft.). UNIT: PIECE, QUANTITY: 2 ACRYLIC SHEET, *Materials: Acrylic. *Color: Clear. *Size: 6mm (4ft. x 4ft.). UNIT: PIECE, QUANTITY: 1 AIR COMPRESSOR, *Power supply: DC12V. *Rated current: 10A. *Power Source : Can be thru cigarette lighter or can be car battery. *Max. pressure: 140PSI (10Bar). *Max. air flow: 35L/min. *with 1pcs LED light. *With 3M cord with cigarette lighter. *With battery clips. *With 4Pcs nozzle adapters. *Manual. UNIT: UNIT, QUANTITY: 1 ALLEN CAPSCREW, *M6 x 16MM. *10pcs/set. UNIT: SET, QUANTITY: 2	462,339.47	462,339.47

P.O. #: TRF-184-24-03-10

Please acknowledge receipt and acceptance of this notice by signing both copies in the space provided below. keep one copy and return the other to Caraga State University

Very truly yours,

  
ROLYN C. DAGUIL, Ph.D  
University President

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Authorized Signature: \_\_\_\_\_



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QTY	Unit	Description	BID PRICE	TOTAL PRICE
		ALLEN CAPSCREW, *M8 x 25MM. *10pcs/set. UNIT: SET, QUANTITY: 1		
		ALLEN WRENCH, *9pcs Allen wrench L type. *Size 1.5mm - 10mm. UNIT: SET, QUANTITY: 1		
		ALLUMINUM SHEET, *Thickness: 3mm. *Length: 12 inch. *Width: 12 inch. UNIT: PIECE, QUANTITY: 8		
		ALUMINUM BRACKET, *Lenght: 2.5 meters Die cast gray bracket profile. *Size: 20mm x 20mm. UNIT: PIECE, QUANTITY: 100		
		ALUMINUM BRACKET, *Lenght: 2.5 meters Die cast gray bracket profile. *Size: 30mm x 30mm. UNIT: PIECE, QUANTITY: 100		
		ALUMINUM PROFILE EXTRUSIONS, *T-slot Mill Finish. *Sizes: 2020. *Lenght: 100cm. UNIT: PIECE, QUANTITY: 5		
		ALUMINUM PROFILE, *Aluminum Profile Extrusions. *T-slot. *Size: 30mm x 30mm x 990mm. UNIT: PIECE, QUANTITY: 6		
		ALUMINUM PROFILE, *Lenght: 2.5 meters. *Size: 20mm x 20mm. UNIT: PIECE, QUANTITY: 3		
		ALUMINUM PROFILE, *Lenght: 2.5 meters. *Size: 30mm x 30mm. UNIT: PIECE, QUANTITY: 5		
		ANGLE GRINDER/EDGER, *Power: 540W. *Capacity: 4". *No Load Speed: 12,000 rpm. *Net Weight: 1.6 kg (3.5lbs). *Warranty: atleast 1 year. UNIT: UNIT, QUANTITY: 2		
		ANTENNA CONNECTOR, *Product Series: SMA to Ufl/Ipx cable. *Family: Coaxial, RF pigtail cable. *Gender: SMA Jack, female pin/Ufl/Ipx. *Length: 15cm/5.91 inch. *Cable type: 1.13 cable. *material: Metal. *color: Black+Gold. *5pcs. UNIT: SET, QUANTITY: 3		
		ARROW MAGNETIC WELDING HOLDER, *50 LBS. *4". *Magnetic. *High Quality. *Heavy Duty. *For Welding. *45, 90 degrees. UNIT: PIECE, QUANTITY: 4		
		AUGER DRILL BIT, *Size: 1/2" x 17". *Type: Dual Auger. UNIT: UNIT, QUANTITY: 1		
		BALL BEARING, *Thin Wall Deep Groove Steel Bearings. *Material: Steel. *Color: As Pictures Show. *Size: 25*37*7MM (Approx). UNIT: PIECE, QUANTITY: 5		
		BALL JOINT, *Type: PSHA. *Inner Dia: 12mm Right Thread. UNIT: PIECE, QUANTITY: 6		
		BEARING, *TYPE: Round Flange Linear Bearing Ball Bushing. Size: d6x12x19 mm. UNIT: PIECE, QUANTITY: 10		
		BENCH POWER SUPPLY, *Certification: CE. *Certification: FCC. *Output Current: 0-6A. *is_customized: Yes. *Output Frequency: 50/60Hz. *Model Number: SPS-C3206Black. *		

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		<p>*Output Type: Single. *Output Power: 101 - 200W. *Features1: regulated power supply. *Features2: dc power supply adjustable. *Features3: diy power supply. *Features4: variable power supply. *Features5: lab bench power supply. *Features6: digital power supply. *Features7: voltage regulator switch. *Features8: laboratory power supply. *Features9: Bench power supply. *Features10: power supply led. *Features11: adjustable dc regulated power supply. *Features12: Voltage stabilizer. *Features13: bench power 32v 6a. *Features14: bench source 32v 6a. *Features15: Voltage stabilizer. *Features16: ac-dc switching power supply. *Features17: 24 volt dc power supply. *Features18: ac 220v can work. *Features19: Power supply for pc. *Features20: Voltage regulator. *Features21: BD-SPS-C3206. *Features22: power regulators. *Feature 23: Laboratory power supply 32v 6a. UNIT: SET, QUANTITY: 1</p> <p>BOLT, *M10x40MM (10Pcs). *TGC 10/1PCS M10 ( 10MM x 1.25P ) Hex Bolt Fine Thread. *Hexagonal Capscrew Plated. *Ordinary Bolt 10mm nf. UNIT: SET, QUANTITY: 15</p> <p>BOLT, *M8 x 20mm. *10pcs/set. UNIT: SET, QUANTITY: 4</p> <p>BUCK CONVERTER MODULE, *DC to DC Step Down. *Input: DC 6V-40V. *Output: DC 5V / 3A (MAX). *Efficiency: 92% (MAX). *Switching frequency: 150KHZ. *Working temperature: -40 ? - + 85 degree cel. *Dimension LxWxH: 59mm x 21mm x 17mm. *Load capacity: Maximum output 3A. *Scope: mobile power, mobile phones, flat-panel powered devices USB 5V. UNIT: UNIT, QUANTITY: 5</p> <p>BUCK CONVERTER, *XL4015 High power 5A 75W DC -DC Adjustable step down charger module step down buck converter LED Driver with red voltmeter. UNIT: PIECE, QUANTITY: 4</p> <p>BULB, *Type: LED. *Wattage: 18 watts. UNIT: PIECE, QUANTITY: 10</p> <p>BUZZER MODULE, *Passive Speaker Buzzer Module for audiono boards ky 006 small passive buzzer module UNIT: PIECE, QUANTITY: 5</p> <p>CAN BUS MODULE, *MCP2515. *Board TJA1050 receiver SPI for 51 MCU arm controller UNIT: PIECE, QUANTITY: 15</p> <p>CAP BOLT, *material: SUS304. *Diameter: M4. *Length: 8mm. *10pcs/pack. UNIT: PACK, QUANTITY: 10</p> <p>CAP BOLT, *material: SUS304. *Diameter: M5. *Length: 12mm. *10pcs/pack. UNIT: PACK, QUANTITY: 10</p> <p>CNC BIT ROUTER, *10 pcs Material: Tungsten steel. *Color: silver, golden. *Features: Model: 3.175 coating, Shape: V-shape, Degree: 15, Shank diameter: 3.175mm,</p>		

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QTY	Unit	Description	BID PRICE	TOTAL PRICE
		Cutting edge diameter: 0.1 mm, Total length: 30mm. UNIT: SET, QUANTITY: 2		
		COAXIAL RF ADAPTER CONNECTOR, *SMA Female to RP-SMA Male. UNIT: PIECE, QUANTITY: 5		
		CORNER BRACKET, *Size: 20x20mm. *6mm slot. *Material: Aluminum alloy. *50 pcs. UNIT: UNIT, QUANTITY: 2		
		CRIMPING TOOL, *3 in 1 crimping tool: crimping, cutting and stripping. *Heavy duty, compatible for RJ45, RJ11, RJ12. *Package include: 1 network cable crimper tool, 1 wire stripper. UNIT: PIECE, QUANTITY: 1		
		CUTTING DISC, *Size: 4" diameter. *thiknes: 105x1.0mmx16mm. *25pcs/set. UNIT: SET, QUANTITY: 2		
		DC TO DC VOLTAGE REGULATOR, *Step Down Buck Converter Input: DC 6V-40V Output: DC 5V / 3A (MAX) Efficiency: 92% (MAX) Switching frequency: 150KHZ Working temperature: -40 - + 85 Dimension LxWxH: 59mm x 21mm x 17mm Load capacity: Maximum output 3A Scope: mobile power, mobile phones, flat-panel powered devices USB 5V UNIT: PIECE, QUANTITY: 15		
		DIY WIRES, *22 awg: 10 m lenght, *color: White. UNIT: PIECE, QUANTITY: 1		
		DIY WIRES, *22 awg: 10 m lenght, color: Black. UNIT: PIECE, QUANTITY: 1		
		DIY WIRES, *22 awg: 10 m lenght, color: blue. UNIT: PIECE, QUANTITY: 1		
		DIY WIRES, *22 awg: 10 m lenght, color: red. UNIT: PIECE, QUANTITY: 1		
		DIY WIRES, *22 awg: 10 m lenght, color: yellow. UNIT: PIECE, QUANTITY: 1		
		DRILL BIT HOLE SAW TOOTH SET, *Outside *Diameter: 16mm/0.62", 18.5mm/0.73", 20mm/0.78", 25mm/0.98", 30mm/1.18". *Length: 65mm/2.55" (Approx). *Diameter of Shank: 9mm/0.35". *Features: Durable and practical. *Provide 5 Kinds of SIZE H.S.S Hole Saw, Meet Your *Different Needs. *Perfect for Installing Locks, Knobs in Doors and Cabinets or Drilling Larger Diameter Holes Through Desks Etc. *Cuts Steel, Stainless Steel, Copper, Brass, Aluminum, *Fiberglass, Formica And Other Laminates In Seconds. UNIT: SET, QUANTITY: 1		
		DRILL BIT KIT, *1-10mm, steel drill bit. UNIT: SET, QUANTITY: 1		
		DRIVER BOARD, *CONTROL MODULE: ESP32-WROOM-32. *CONTROL CHIP: ESP32. *POWER SUPPLY: DC 7-13V. *POWER INTERFACE: XH2.54 *ANTENNA CONNECTOR: IPEX1. *DOWNLOAD INTERFACE: Type-C. *WIRELESS COMMUNICATION: WIFI, *Bluetooth, ESP-NOW DIMENSIONS: 65, 65mm. *MOUNTING HOLE SPACING: 49, 58mm. *MOUNTING HOLE DIAMETER: 3mm. *General Driver Board For Robots, Based On *ESP32, Multi-		

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Competence Service Uprightness

**PROCUREMENT OFFICE**

Project Reference number: 10656460  
Name of Project: **PROVISION OF  
ELECTRONICS PARTS AND COMPONENTS  
AND OTHER MATERIALS FOR THE  
OPERATION OF DOST PCIEERD PROJECT  
1 ICT4RM 2.0: YR2 AND PROJECT 2: MINE  
GEARS YR2.TRF-184-24-03-01**  
Location of Project: Caraga State University



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QTY	Unit	Description	BID PRICE	TOTAL PRICE
		-Functional, Supports WIFI, *Bluetooth And ESP-NOW Communications, *Compatible With Raspberry Pi And Jetson Nano. UNIT: PIECE, QUANTITY: 2 DUPONT CONNECTOR KIT, *1004 pcs Crimp Connector Kit with Dupont Wire Connectors and Ribbon C UNIT: SET, QUANTITY: 1 DUST SENSOR, *Bit rate :9600. *Data bit:8. *Parity bit:NO. *Stop bit:1. *Data Packet frequency:1Hz 9993. *Check-sum: Check-sum=DATA1+DATA2+...+DATA6. *PM2.5 value: $PM2.5 (\bar{i}_t/2g/m3) = ((PM2.5 \text{ High byte} *256) + PM2.5 \text{ low byte})/10$ . *PM10 value: $PM10 (\bar{i}_t/2g/m3) = ((PM10 \text{ high byte} *256) + PM10 \text{ low byte})/10$ . UNIT: UNIT, QUANTITY: 1  END MILL, *6.0. *15C. *6D. *50L-4F. UNIT: PIECE, QUANTITY: 6 ESP32 DEVKIT, *Single or Dual-Core 32-bit LX6 Microprocessor with clock frequency up to 240 MHz. -520 KB of SRAM, 448 KB of ROM and 16 KB of RTC SRAM. -Supports 802.11 b/g/n Wi-Fi connectivity with speeds up to 150 Mbps. -Support for both Classic Bluetooth v4.2 and BLE specifications. -34 Programmable GPIOs. -Up to 18 channels of 12-bit SAR ADC and 2 channels of 8-bit DAC -Serial Connectivity include 4 x SPI, 2 x I2C, 2 x I2S, 3 x UART. -Ethernet MAC for physical LAN Communication (requires external PHY). -1 Host controller for SD/SDIO/MMC and 1 Slave controller for SDIO/SPI. -Motor PWM and up to 16-channels of LED PWM. -Secure Boot and Flash Encryption. -Cryptographic Hardware Acceleration for AES, Hash (SHA-2), RSA, ECC and RNG. UNIT: PIECE, QUANTITY: 20  FEMALE HEADER, *2.54MM 8Pin. *10MM Long Needle Female Pin Header. UNIT: PIECE, QUANTITY: 10 FERRULE CRIMPING PLIERS, *Description: Ratchet Hexagonal Crimping Tool. *Application: Cable End-sleeves ferrules. *Capacity: 0.25-6.0mm2. *AWG: 23-10. *Weight: 0.95lb. *Handle Material: TPR+PP. *Length: 6.89in. UNIT: PIECE, QUANTITY: 1 FILAMENT DEHYDRATOR, *Input: 100-240V 50/60Hz. *Output: DC24V/2A. *Rated Power: 48W. *Heating Power: =35W. *Maximum Capacity: F200*73(H)mm. *Temperature: 3 Levels Adjustable(Inside Environment *Temperature: 40?/50?/55?). *Heating Time Setting: Max. 18 Hours. *Filament Diameter: 1.75mm/2.85mm/3mm. *Item Size: 215 * 104 * 238.5mm / 8.5 * 4.1 * 9.4in. *Item Weight: 639g / 22.5oz. *Package Size: 27.5 * 25.1 * 14.0cm / 10.8 * 9.9 * 5.5in. *Package Weight: 1130g / 39.9oz. Packing List: 1- Filament Box, 1-Power Adapter, 1-Tube, 1-Bayonet, 1-User Manual (English). UNIT: UNIT, QUANTITY: 3		

FLAT WASHER, \*3/8 or 10mm. UNIT: KILO, QUANTITY: 1

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**PROCUREMENT OFFICE**

Project Reference number: 10656460  
Name of Project: **PROVISION OF  
ELECTRONICS PARTS AND COMPONENTS  
AND OTHER MATERIALS FOR THE  
OPERATION OF DOST PCIEERD PROJECT  
1 ICT4RM 2.0: YR2 AND PROJECT 2: MINE  
GEARS YR2.TRF-184-24-03-01**  
Location of Project: Caraga State University



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QTY	Unit	Description	BID PRICE	TOTAL PRICE
		FLAT WASHER, *5/16 or 8mm. UNIT: KILO, QUANTITY: 1		
		G.I. PIPE, *Size: 3/4" diameter or 19mm. *Length: 50cm. UNIT: LENGTH, QUANTITY: 6		
		GAS SENSOR, *Hydrogen Sulfide Sensor H2S Gas Sensor Module Detector for Arduino. UNIT: PIECE, QUANTITY: 2		
		GAS SENSOR, *MG811. *Carbon Dioxide Gas CO2 Sensor. *Module Detector With Analog Signal Output 0-2V. UNIT: PIECE, QUANTITY: 2		
		GAS SENSOR, *MQ-7: carbon monoxide. 1.With signal output indicator light. 2.Size: 32mm X22mm X30mm+- length * width * height. 3.The main chip: LM393, MQ-x gas sensing probe. 4.Working voltage: DC 5V. 5.With signal output indicator light. 6.The dual signal output (analog output and TTL output). UNIT: PIECE, QUANTITY: 2		
		GI PIPE FITTINGS, *Size: 3/4. *Orientation: 90Degree. UNIT: PIECE, QUANTITY: 16		
		GO KART/ATV WHEEL, *145/70-6 inch. UNIT: PIECE, QUANTITY: 4		
		GPS CERAMIC ANTENNA, *GPS Receiver for car SMA Connector GPS Antenna Car Auto Aerial Adapter For Navigation UNIT: PIECE, QUANTITY: 20		
		GPS+BDS DUAL MODE MODULE, *Voltage range (VCC): 5V DC. *I/O Voltage: 3.3V. *Standard baud rate: 9600. *Uses the ATGM366H-5N-31 GPS module. *Works with GPS, BDS. *LED indication when GPS has a fix (blinking LED). *Dimensions PCB (LxWxH): 16.2x13.8x5.3mm (without header pins). UNIT: PIECE, QUANTITY: 15		
		GRINDING DISC, *Type: A 24 S BF. *Diameter: 100 mm (4"). *Bore diameter: 16.0mm. *Thickness: 6.0 mm. *Product type: Grinding disc. UNIT: PIECE, QUANTITY: 10		
		GSM ANTENNA, *GSM/850E : 824 to 894MHz. *GSM: 880 to 960MHz. *DCS: 1710 to 1880MHz. *PCS: 1850 to 1990MHz. *Dimensions: Length: 61mm / 2.4" Weight: 6g. *Image of dimensions Length: 61mm / 2.4" Weight: 6g. UNIT: PIECE, QUANTITY: 20		
		GSM MODULE, *Supply voltage: 3.8V - 4.2V Recommended supply voltage: 4V Power consumption: sleep mode < 2.0mA idle mode < 7.0mA GSM transmission (avg): 350 mA GSM transmission (peak): 2000mA Module size: 25 x 23 mm Interface: UART (max. 2.8V) and AT commands SIM card socket: microSIM (bottom side) Supported frequencies: Quad Band (850 / 950 / 1800 /1900 MHz) Antenna connector: IPX Status signaling: LED Working temperature range: -40 do + 85C. UNIT: PIECE, QUANTITY: 15		
		HALL EFFECT SENSOR, *10pcs A3144 OH3144 OH137 Hall Effect Sensor Brushless Electric Motor TO-92UA A3144EUA. UNIT: SET, QUANTITY: 2		
		HIGH TENSILE HEX NUT, *M8 X 1.25. *50pcs/set. UNIT: SET, QUANTITY: 2		
		HYBRID ANTENNA, *Frequency Range: 1700-2700MHz. *Polarization: $i_L/245i_L/2$ . *Bandwidth: 1000MHz. *Gain: 2x18dBi. *Horizontal Half-power Beam Width: $65i_L/2$ . *		

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		*Vertical Half-power Beam Width: 7i½. *VSWR: =1.5. *Maximum input power: 500. *Lightning protection: DC Ground. *Cable Length: 20meters. *Input connector type: 2 x SMA-Male. *Dimensions: 410*180*62mm. *Antenna weight: 2kg. *Radome material: ABS. *Radome color: White. *Operating temperature: -40?~65?. *Rated Wind Velocit: 60m/s. *Waterproof Standard: IP67. *Mounting way: wall-hanging or pole-holding. *Mounting hardware: 735mm~750mm. UNIT: UNIT, QUANTITY: 1		
		IMPACT DRILL, *Color: Blue. *Square Drive: 1/2. *Max.Torque: 800 N.M. *No-load Speed: 0~6200 RPM. *Impact Rate: 0~6200 Per Minute. *Square Drive: 1/2. *Max.Torque: 800 N.M. *No-load Speed: 0~6200 RPM. *Impact Rate: 0~6200 Per Minute. UNIT: UNIT, QUANTITY: 1		
		IMPULSE HEAT SEALER, *Voltage: 220V. *Frequency: 50-60Hz. *Sealing Width:3mm. *Sealing sickness 0.45-0.6mm. *Main Material: ABS. *Size: 100mm. UNIT: UNIT, QUANTITY: 2		
		LED MINI DRIVING LIGHTS, *3 super bright LED bulbs. *Suitable for voltages ranging from 9V to 85V, 30 watts per bulb. *Waterproof grade 68". UNIT: UNIT, QUANTITY: 1		
		LED SIGNAL STACK LIGHTS, *Material: lampshade-PC, lamp case-ABS, rotating base-ABS, Type (optional): 3-Level with Buzzer. *Operating voltage: 12-24VDC. *Power: 1-5 (W). *Color: red + orange + green + blue + white. *Light form: constant brightness. *Lighting: Each layer comes with a constant light/shiny adjustable control switch. *Alarm sound: buzzer alarm. UNIT: UNIT, QUANTITY: 1		
		LIFEPO4 AUTOMOTIVE BATTERY, *Standard pole. *12v 15A. UNIT: PIECE, QUANTITY: 5		
		LITHIUM BATTERY, *18650 3.7V, 3600mAh 2 pcs UNIT: PACK, QUANTITY: 10		
		LOCK WASHER, *M10 or 3/8. *10PCS/Set. UNIT: SET, QUANTITY: 10		
		LOCK WASHER, *M8 or 5/16. *100PCS/Set. UNIT: SET, QUANTITY: 1		
		LORA MODULE, *868mhz, SX1278 LoRa Module 433M 10KM Ra-02 Ai-Thinker Wireless Spread Spectrum Transmission Socket for Smart Home DIY. UNIT: PIECE, QUANTITY: 5		
		MAGNETIC ENCODER, *VCC: 3.3 Volts. *Ground Wire: Ground. *External: PWM/Analog Voltage Output. *DIR: Direction Of Rotation (Earth-Clockwise Increase. *Value: And Vcc = Decrease Value Clockwise). *SCL: IIC Clock Line. *SDA: IC Data Line. *GPO: Mode Selection (Internal Extration-Programming *Mode B)". UNIT: PIECE, QUANTITY: 10		
		MICROCONTROLLER, *Esp-wroom-32U. *Working voltage 4.75-5.25V. *SPIFlash default 32Mbit. *RAM internal 520KB + external 8MB PSRAM. *Wi-Fi 802.11b/g/n/e/i. *Bluetooth		

P.O. #: TRF-184-24-03-10

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University President

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Name of the Representative of the Bidder: \_\_\_\_\_  
Authorized Signature: \_\_\_\_\_



Republic of the Philippines  
**CARAGA STATE UNIVERSITY**  
Ampayon, Butuan City 8600, Philippines

Competence Service Uprightness

**PROCUREMENT OFFICE**

Project Reference number: 10656460  
Name of Project: **PROVISION OF  
ELECTRONICS PARTS AND COMPONENTS  
AND OTHER MATERIALS FOR THE  
OPERATION OF DOST PCIEERD PROJECT  
1 ICT4RM 2.0: YR2 AND PROJECT 2: MINE  
GEARS YR2.TRF-184-24-03-01**  
Location of Project: Caraga State University



PHONE: 0917 707 8713 Loc. 248 | EMAIL: csuprocurement@carsu.edu.ph

**NOTICE OF AWARD**

QTY	Unit	Description	BID PRICE	TOTAL PRICE
		Bluetooth 4.2BR/EDR and BLE standard. *Support interface (2Mbps) UART, SPI, I2C, PWM. *Support TF card, maximum support 4G. *IO port 9. *Serial port rate default 115200bps. *Spectrum range 2400 ~2483.5MHz. *Antenna form Onboard PCB antenna, gain 2dBi. *Image output format: JPEG (only OV2640 support), BMP, *GRAYSCALE. *Packaging method DIP-16. *Transmit power 802.11b: 17, 2dBm (@11Mbps). *802.11g: 14, 2dBm (@54Mbps). *802.11n: 13i 1/2dBm (@MCS7). *Receiving sensitivity CCK, 1Mbps: -90dBm. *CCK, 11Mbps: -85dBm. *6Mbps(1/2BPSK): -88dBm. *54Mbps (3/464-QAM): -70dBm. *MCS7 (65Mbps, 72.2Mbps): -67dBm. *Power consumption Turn off the flash: 180mA@5V. *Turn on the flash and adjust the brightness to the maximum: 310mA@5V *Deep-sleep: The lowest power consumption can reach 6mA@5V. *Moderm-sleep: the lowest can reach 20mA@5V. *Light-sleep: the lowest can reach 6.7mA@5V. *Security WPA/WPA2/WPA2-Enterprise/WPS. *Working temperature -20 ~ 70. *Storage environment -40 ~ 125, <90%RH. UNIT: PIECE, QUANTITY: 10		
		MICROCONTROLLER, *Type: Unsoldered pins. *Microcontroller: ATmega2560. *Operating voltage: 5V. *Input voltage (recommended): 7-12V. *Input voltage (limits): 6-20V. *Digital I / O pins: 54 (of which 14 provide PWM output). *Analog input pins: 16. *DC current per I / O pin: 40 mA. *DC current for 3.3V Pin: 50 mA. *Flash Memory: 256 KB of which 4 KB used by bootloader. *SRAM: 8 KB. *EEPROM: 4 KB. *Clock Speed: 16MHz. UNIT: PIECE, QUANTITY: 5		
		MINI RFID SCANNER MODULE V2, *RC522 Mini RFID RF IC Card Inductive Reading/Writing Card Swipe Module 13.56MHz 3.3V with Key Ring for Card Reader Development UNIT: PIECE, QUANTITY: 20		
		MINIATURE BALL BEARING, *Material: Bearing steel. *Inner Diameter: 5mm / 0.19". *Outer Diameter: 11mm / 0.43". *Thickness: 5mm / 0.19". *Quantity: 10pcs. UNIT: PIECE, QUANTITY: 5		
		NEODYMIUM MAGNETS, *30 pcs Super Strong Mini Neodymium Magnets Fridge Magnets Rare Earth Permanent Magnetic NdFeB imanes Disc 3mmx3mm. UNIT: SET, QUANTITY: 1		
		OBDII MALE CONNECTOR, *with pins. *OBD II OBD2 24V Square Hole 16Pin Male Extension Opening Cable Car Diagnostic Interface Connector Plug Adpter UNIT: PIECE, QUANTITY: 15		
		ORDINARY HEXAGONAL NUT, *M10 X 1.25nf. *50pcs/set UNIT: SET, QUANTITY: 3		
		PILLOW BLOCK, *Bore Ball Bearing Pillow Block. *8mm UNIT: PIECE, QUANTITY: 6		
		PILLOW BLOCK, *Shaft Dia. UCF 204; 20 mm UCF 204-12; 3/4 inch UNIT: PIECE,		

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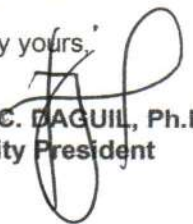
### NOTICE OF AWARD

QTY	Unit	Description	BID PRICE	TOTAL PRICE
		QUANTITY: 12		
		PILLOW BLOCK, *UCP204 Material: Cast iron bearing steel. *Color: Dark green UNIT:		
		PIECE, QUANTITY: 10		
		PING PONG RUBBER, *Material: Rubber + Sponge. *Optional Color: Black / Red (As		
		Pictures Show). *Weight: 85g(Approx). *Hardness: 40. *Thickness: Sponge 2.1mm(Approx).		
		*Color: Red. UNIT: PIECE, QUANTITY: 1		
		PLANETARY GEARBOX, *Output Speed 187rpm. *Input Speed 3000rpm. *Speed Ratio: 15		
		to 1. *PLF060-8mm Input. *Rated Power 90% or more. *Output Torque 30Nm. *Model		
		Number 57PX-16-8/14-38.1-47. *Gearing Arrangement: Planetary. UNIT: PIECE,		
		QUANTITY: 4		
		RAIL SHAFT SUPPORT, *SK8 aluminum alloy. UNIT: PIECE, QUANTITY: 10		
		RATCHETING PIPE THREADING TOOL SET, *5-piece set. *With PVC carrying case.		
		*Including ratchet handle :3/8 1/2" and 3/4" & 1" & 1 1/4" 5 BSPT". UNIT: SET, QUANTITY:		
		1		
		REAR WHEEL HUB, *Hole clearance: 78mm. *No of teeth: 17. *Center Hole Diameter: 17.5.		
		*Bolt hole diameter: 7mm. UNIT: PIECE, QUANTITY: 6		
		RELAY MODULE, *4-Channel Relay interface board. *Each one needs 15-20mA Driver		
		Current. *Equipped with high-current relay: DC30V 10A AC250V 10A AC125V 10A.		
		*Standard interface that can be controlled directly by microcontroller. *Indication LED for		
		Relay output status. *Size: approx. 75mm x 55mm x 20mm. UNIT: PIECE, QUANTITY: 3		
		ROTARY DRILL, *Power Source: AC. *Rated Voltage: 220V. *Max. Drilling Diameter:		
		3.2mm shank. *Application: Jewelry tools and equipment, dental lab tools for milling		
		polishing engraving drilling. *Rated Input Power: 130W. *Model Number: 211pc. *Usage:		
		DIY. *Frequency: 50/60HZ. *Speed: 6 variable 0-32000RPM. UNIT: SET, QUANTITY: 2		
		ROYAL CORD, *cable size: 4x Awg18 Royal Cable Non Shielded, Pure Copper. UNIT:		
		PIECE, QUANTITY: 20		
		ROYAL CORD, *cable size: 4x Awg20 Royal Cable Non Shielded, Pure Copper. UNIT:		
		PIECE, QUANTITY: 15		
		SERVO MOTOR, *35kg 180 Degree. *Large Torque Digital Servo. *Aluminium Metal Gears		
		25T Arm. UNIT: PIECE, QUANTITY: 4		
		SERVO MOTOR, *No-load speed: 200, 10rpm. *Operating temperature: -20~45. *No-load		
		current: 0.25A. *Total weight: 76g, 15g. *Rated speed: 115rpm.		
		*Encoder resolution 4096. *Rated torque 0.96Nm. *Rated current 1.25, 0.05A. *Degree of		
		protection IP54. *Noise level 50dB. *Locked-rotor torque 2.0Nm. *Mechanical time constant		

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QTY	Unit	Description	BID PRICE	TOTAL PRICE
		30ms. *Locked-rotor current 2.7A. *Rotor inertia 1.67kg-m. *Rated voltage 18V DC (5S LiPo). *Phase resistive elements 2.150. *Torque constant 0.75Nm/A. *Phase inductance 3.6mH. *Speed constant 11.1rpm/V. *Number of pole pairs 10. UNIT: PIECE, QUANTITY: 4 SERVO MOTOR, *PRODUCT TYPE: serial bus servo. *TORQUE 30kg.cm@12V. *ROTATION ANGLE 360, (0-4095). *POSITION SENSOR RESOLUTION 360/4096. *MECHANISM LIMITED ANGLE No Limit. *OPERATING VOLTAGE 6 ~ 12.6 V. *GEAR high precision metal gear. *NO-LOAD SPEED 0.222sec / 60(45RPM)@12V. *ENCODER TYPE 360 Magnetic Encoder. *ID RANGE 0 ~ 253. *BAUDRATE 38400bps ~ 1Mbps (1Mbps by default). *FEEDBACK Position, Load, Speed, Input Voltage. *NO-LOAD CURRENT 180 mA. *LOCKED-ROTOR CURRENT 2.7A *KT 11kg.cm/A. UNIT: PIECE, QUANTITY: 4  SERVO MOTOR, *Servo Motor 25kg.cm@12V. *ROTATION ANGLE :360 (0~4095). *POSITION SENSOR RESOLUTION : 0.088 (360/4096). *MECHANISM LIMIT ANGLE :No Limit. *WORKING VOLTAGE :6 ~ 14 V (typ. 12V). *GEAR: high precision metal gear. *NO-LOAD SPEED : 0.167sec/60 (60RPM)@12V. *ENCODER TYPE :12Bits magnetic encoder. *ID RANGE:1 ~ 253. *BAUDRATE:38400bps ~ 1Mbps (1Mbps by default) *FEEDBACK :Position, Load, Speed, Input Voltage, Current, Temperature. *NO-LOAD CURRENT:200mA@12V. *LOCKED-ROTOR CURRENT :2.7A@12V. *KT: 9.26kg.cm/A. UNIT: PIECE, QUANTITY: 4  SHAFT COUPLING, *Three Jaw. *Aluminium Plum Flexible Shaft Coupling 5x11 UNIT: PIECE, QUANTITY: 4 SHAFT COUPLING, *Three Jaw. *Aluminium Plum Flexible Shaft Coupling 5x8 UNIT: PIECE, QUANTITY: 4 SHAFT COUPLING, *Three Jaw. *Aluminium Plum Flexible Shaft Coupling 6x11 UNIT: PIECE, QUANTITY: 4 SHAFT COUPLING, *Three Jaw. *Aluminium Plum Flexible Shaft Coupling 6x12 UNIT: PIECE, QUANTITY: 4 SHAFT COUPLING, *Three Jaw. *Aluminium Plum Flexible Shaft Coupling 6x8 UNIT: PIECE, QUANTITY: 4 SHIELD BOARD KIT, *Pitch: 3.5mm mini terminal blocks, total 84 pins (3pole x24pcs, 2pole x6pcs). *Wire range: 26~16AWG, strip length 5mm, screws M2 steel, pin header and cage brass. *Pads grid /pitch: 2.54mm, hole diameter: 0.8mm(Approx.). *Terminal block pitch: 3.5mm, hole diameter: 1.2mm(Approx.). *Dimension: 12.024*7.72cm (Approx.). UNIT:		

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QTY	Unit	Description	BID PRICE	TOTAL PRICE
		UNIT, QUANTITY: 4 SHRINKABLE TUBE, *580 pcs Assorted Polyolefin Insulation Sleeving Wire Cable Sleeve Wrap UNIT: SET, QUANTITY: 1 SMA SPLITTER, *Temp range: -65~+165 (PE Cable-40~+85). *Vibration: MIL-STD-202, Method 213. *Impedance: 50Ω. *Frequency Range:DC~12.4GHz. *Working Voltage: 335V max. *Insulation resistance = 5000 MO. *Insertion loss =0.15 dB/3GHz. UNIT: PIECE, QUANTITY: 4 SOCKET WRENCH, *Material: Chromium Vanadium Steel. *Size: 47.5&times; 34&times; 10 cm. *Weight: 9.15 kg. *It Can Be Used Widely And Conveniently: 1.Construction Site, 2.Maintenance Workshop, 3.Family Daily, 4.Hydropower Installation, 5.Maintenance Mechanical, Flexible Head Ratchet Wrench, New And High Quality, No More Scrambling For The Proper Tool For Your Repair, Ingenious Travel Tool, Wrench Hardness: 45~48 HRC, It Is Specially Suitable Used In The Narrow Places. UNIT: SET, QUANTITY: 1 SPEED SENSOR, *the use of imported groove coupler sensor, *the slot width 10mm, *the output state indicator lamp output high, output low lights. *block, output low; no shelter, output high. *the comparator outputs a signal clean, good waveform driving ability more than 15mA. *the working voltage of 3.3V-5V. *the output format: digital switching output (0 and 1). *a fixed bolt holes for easy installation. *small plates PCB size: 3.2cm x 1.7cm. *using a wide voltage LM393 comparator. UNIT: PIECE, QUANTITY: 5 STAINLESS STEEL HEX SOCKET SCREW, *Size:500Pcs, M3 X 8 30pcs; M3 X 12 30pcs; M3 X 16 30pcs; M3 X 20 30pcs; M3 Nuts 120pcs; M4 X 8 20pcs; M4 X 12 20pcs; M4 X 16 20pcs; M4 X 20 20pcs; M4 Nuts 80pcs; M5 X 8 15pcs; M5 X 12 15pcs; M5 X 16 10pcs; M5 X 20 10pcs. UNIT: SET, QUANTITY: 2 STAINLESS STEEL ROUNBAR, *Diameter: 3/4 inch or 19mm. *Length: 2 meter. UNIT: PIECE, QUANTITY: 1 STEEL PLATE, *Lenght: 6inch. *width: 6inch. *Thickness: 6mm. UNIT: PIECE, QUANTITY: 8 STEEL SHAFTING SOLID ROUND BAR, *Size: 3/4. *length: 12 inch. UNIT: PIECE, QUANTITY: 8 STEPPER DRIVER, *For two-phase stepper motors. *Arduino compatible. *Able to output a 4A peak current. *8 kinds of current control from 0.5A to 3.5A and 7 kinds of micro steps. *Power input from 9 to 42VDC. UNIT: PIECE, QUANTITY: 3 T-SLOT NUT, *Variation size: M5. *50pcs/set. UNIT: SET, QUANTITY: 7 T-SLOT NUT, *Variation size:M4. *50pcs/set. UNIT: SET, QUANTITY: 7		

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QTY	Unit	Description	BID PRICE	TOTAL PRICE
		TERMINAL FERRULES, *Wire Range ]: 0.5mm-10mm, 22 - 6 AWG. *1200pcs Wire Copper Crimp Connector. UNIT: SET, QUANTITY: 1		
		THREAD KNURLED BRASS, *100Pcs M3 Thread Knurled Brass Threaded Heat Set Heat Resistant Insert Embedment Nut for 3D Printer UNIT: SET, QUANTITY: 2		
		TIMING BELT, *Closed Loop GT2 Belt 200mm UNIT: PIECE, QUANTITY: 10		
		TIMING PULLEY, *2GT - 20T, 5mm bore. UNIT: PIECE, QUANTITY: 10		
		TIMING PULLEY, *2GT - 30T, 8mm bore. UNIT: PIECE, QUANTITY: 6		
		UNIVERSAL PCB, *Base Material: FR 4. *Protoboard Type: Double Side. *Board Thickness: 1.6mm. *Hole Pitch: 2.54mm. *Size: 8x12. UNIT: PIECE, QUANTITY: 14		
		USB EXTENDER, *USB2.0 Male to Female Active Extension Cable, 5 meters. UNIT: PIECE, QUANTITY: 1		
		UV RESIN FILAMENT, *1KG ABS-Like Fast Curing 3D Printer Resin 395-405nm UV Light Curing Photopolymer Resin. UNIT: PIECE, QUANTITY: 1		
		WATER SOLUBLE CUTTING OIL, *2 x PC4-01 pneumatic connector, 2 x PC4-m6 extruder pneumatic connector, 3 x insulated. *4liters. UNIT: LITER, QUANTITY: 1		
		WELDING ROD, *Ordinary 6013(1/8) UNIT: KILO, QUANTITY: 10		
		WIFI MODULE, *Product Type: Wifi module for microcontrollers. *Power Consumption: 10.5 Watts. *Power Supply: 24V DC. *Wireless LAN Standard IEEE 802.11ac. *Network Band Dual Band. *Frequency Band 5 GHz, 2.40 GHz. *Indoor/Outdoor Outdoor. *Wireless Transmission Speed 1.17 Gbit/s. *MIMO Technology Yes. *Beamforming Technology Yes. UNIT: PIECE, QUANTITY: 1		
		WIRE CABLE CONNECTOR, *Wire Type: 26AWG. *Pitch: 2.5mm&plusmn;0.0. *Quantity: 5 Set. *Wire length: 200mm. *4pin JST. *5 set. UNIT: SET, QUANTITY: 10		
		WIRE CABLE CONNECTOR, *Wire Type: 26AWG. *Pitch: 2.5mm&plusmn;0.0. *Quantity: 5 Set. *Wire length: 200mm. *5pin JST. *5 set. UNIT: SET, QUANTITY: 10		
		WIRE CABLE CONNECTOR, *Wire Type: 26AWG. *Pitch: 2.5mm&plusmn;0.0. *Quantity: 5 Set. *Wire length: 200mm. *3pin JST. *5 set. UNIT: SET, QUANTITY: 10		
		WIRELESS USB ADAPTER, *150Mbps. *4 dbi high gain. *Detachable Omni Directional Antenna. UNIT: UNIT, QUANTITY: 1		
		XLR CONNECTOR, *set of male to female. *4Pins Female/Male Chassis Mount Wire Panel. UNIT: PIECE, QUANTITY: 10		

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**TOTAL AMOUNT:**

**462,339.47**

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