

**ANNUAL PROCUREMENT PLAN FOR FY 2023**  
**APP-2023-NCSE-006**

Code	Procurement Program/Activity/Project	PMO/ End-User	Is this an Early Procurement Activity? (Yes/No)	Mode of Procurement	Schedule for Each Procurement Activity				Source of Fund	Estimated Budget (Php)			Remarks (Brief Description of Program/Activity/ Project)
					Advertisement/ Posting of IB/REI	Submission/ Opening of Bids	Notice of Award	Contract Signing		Total	MOOE	CO	
5020101000	6	Roundtrip Airfare for Official Travel from Manila to Davao - Airfare @ PNP 12,500.00 - Date: March 13 to 15, 2023 - with atleast 2 pieces baggage with 20kg each 1 lot	RDD	NO	Direct Retail Purchase of Petroleum Fuel, Oil and Lubricant (POL) Products and Airline Tickets		1st Quarter of 2023		GOP	12,500.00	12,500.00	0.00	GIA (ROAMER)
5020321002	6	RJ45 and RJ11 Crimping Tool, for pass-through connectors 2 pcs	KMD	NO	NP-53.9 Small Value Procurement		1st Quarter of 2023		GOP	11,000.00	11,000.00	0.00	GAA
5020399000	6	Electrical Shrinkable Tubes 1 box	KMD	NO	NP-53.9 Small Value Procurement		1st Quarter of 2023		GOP	242.00	242.00	0.00	GAA
5020399000	6	USB sound card 3 pcs	KMD	NO	NP-53.9 Small Value Procurement		1st Quarter of 2023		GOP	528.00	528.00	0.00	GAA
5020321002	6	7-in-1 wire stripper 1 pc	KMD	NO	NP-53.9 Small Value Procurement		1st Quarter of 2023		GOP	2,860.00	2,860.00	0.00	GAA
5020321002	6	2-in-1 Soldering and hot air station, with Adjustable temperature 1 set	KMD	NO	NP-53.9 Small Value Procurement		1st Quarter of 2023		GOP	3,850.00	3,850.00	0.00	GAA
5020399000	6	Cable Ramp, for floor and pathways 5pcs	KMD	NO	NP-53.9 Small Value Procurement		1st Quarter of 2023		GOP	8,525.00	8,525.00	0.00	GAA
5020321002	6	Digital multi-meter 1 unit	KMD	NO	NP-53.9 Small Value Procurement		1st Quarter of 2023		GOP	3,135.00	3,135.00	0.00	GAA
5020399000	6	CMOS battery 10 pcs	KMD	NO	NP-53.9 Small Value Procurement		1st Quarter of 2023		GOP	880.00	880.00	0.00	GAA
5020321002	6	Power supply, Digital Program Controlled Switching Power Supply 1 unit	KMD	NO	NP-53.9 Small Value Procurement		1st Quarter of 2023		GOP	7,315.00	7,315.00	0.00	GAA
5020399000	6	Dual Female PS2 to Male USB Adapter, for KVM switches 16 pcs	KMD	NO	NP-53.9 Small Value Procurement		1st Quarter of 2023		GOP	1,408.00	1,408.00	0.00	GAA
5020399000	6	HDMI Coupler 8 pcs	KMD	NO	NP-53.9 Small Value Procurement		1st Quarter of 2023		GOP	2,200.00	2,200.00	0.00	GAA
5020399000	6	Console Cable, for network switches 2 pcs	KMD	NO	NP-53.9 Small Value Procurement		1st Quarter of 2023		GOP	1,584.00	1,584.00	0.00	GAA
5020399000	6	Contact cleaner 1 pc	KMD	NO	NP-53.9 Small Value Procurement		1st Quarter of 2023		GOP	495.00	495.00	0.00	GAA
5020399000	6	Heat Insulation Silicone Pad 1 pc	KMD	NO	NP-53.9 Small Value Procurement		1st Quarter of 2023		GOP	462.00	462.00	0.00	GAA
5020321002	6	Punch-down Impact tool 2 pcs	KMD	NO	NP-53.9 Small Value Procurement		1st Quarter of 2023		GOP	1,892.00	1,892.00	0.00	GAA
50203990-00	6	Acrylic Adhesive - moderately fast-setting solvent cement - package includes: 1x 4oz acrylic adhesive and 3x applicator bottle with needle * consumable supplies for R&D activities 2 sets	RDD	NO	NP-53.9 Small Value Procurement		2nd Quarter of 2023		GOP	6,000.00	6,000.00	0.00	GAA (AESS)
50203990-00	6	Waterproof Protective Machine Cover - Size: Large ( Approx. 1.85-2.1M) -Color: Black *Protective cover of machines for R&D activities 4 pcs	RDD	NO	NP-53.9 Small Value Procurement		2nd Quarter of 2023		GOP	1,600.00	1,600.00	0.00	GAA (AESS)
50207020-01	6	USB Hub - Number of Ports: 7 - USB Type A 4 sets	RDD	NO	NP-53.9 Small Value Procurement		2nd Quarter of 2023		GOP	6,400.00	6,400.00	0.00	GAA (AESS)
50203990-00	6	Micro USB to USB-A Data Cable - Connectors: Micro USB, USB 2.0 - USB 2.0 male to Micro USB data sync cable 4 pcs	RDD	NO	NP-53.9 Small Value Procurement		2nd Quarter of 2023		GOP	600.00	600.00	0.00	GAA (AESS)
50207020-01	6	Computer Output Device - Inkjet device with Ink tank - Package includes Scan Drivers such as TWAIN, WIA, ICA, SANE * Part of machine prototype 1 unit	RDD	NO	NP-53.9 Small Value Procurement		2nd Quarter of 2023		GOP	11,000.00	11,000.00	0.00	GAA (AESS)
50207020-01	6	Highspeed Computer Output Device - Resolution scanner glass: Up to 1,200 dpi x 2,400 dpi - Unit also includes power and data cables * Part of machine prototype 1 unit	RDD	NO	NP-53.9 Small Value Procurement		2nd Quarter of 2023		GOP	10,500.00	10,500.00	0.00	GAA (AESS)
50207020-01	6	UVC Lamp - 15W lamp - Approximate Dimensions: 460x30x48 mm * Part of machine prototype 6 sets	RDD	NO	NP-53.9 Small Value Procurement		2nd Quarter of 2023		GOP	7,500.00	7,500.00	0.00	GAA (AESS)
50207020-01	6	13.3-inch Capacitive Touch Screen Panel - Size: 13.3" - Resolution:1920x1080 -Display Panel: IPS * Part of machine prototype 2 sets	RDD	NO	NP-53.9 Small Value Procurement		2nd Quarter of 2023		GOP	3,000.00	3,000.00	0.00	GAA (AESS)
50207020-01	6	Security Token - Processor: 16 bit smart card chip (Common Criteria EAL 5+ certified) - Memory Space: 64KB (EEPROM) - Connectivity: USB 2.0/3.0 full speed, Connector type A * Part of machine prototype 18 units	RDD	NO	NP-53.9 Small Value Procurement		2nd Quarter of 2023		GOP	4,050.00	4,050.00	0.00	GAA (AESS)

50203210-02	6	12V 3A Power Supply - INPUT: 100-240V, 50-60Hz - OUTPUT: DC 12V, 3A 4 units	RDD	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	3,344.52	3,344.52	0.00	GAA (AESS)
50203210-02	6	12V 5A Power Supply - INPUT: 100-240V, 50-60Hz - OUTPUT: DC 12V, 5A 4 units	RDD	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	17,338.68	17,338.68	0.00	GAA (AESS)
50207020-01	6	Heavy duty fingerprint lock - 1700 per unit - Color: Silver - Material & Structure: Zinc Alloy Lock Body + Stainless Steel Lock Tongue * Part of machine prototype 7 sets	RDD	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	11,900.00	11,900.00	0.00	GAA (AESS)
50207020-01	6	heavy duty camlock (specialized) - 2600 per set - Cam Length: 17.5mm - Diameter: 22mm - 2 pcs brass dimple key *Part of machine prototype 7 sets	RDD	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	18,200.00	18,200.00	0.00	GAA (AESS)
50207020-01	6	Caster wheels with lock - 750 per unit - Wheel Diameter: 6 inches - Capacity: 200kg/wheel - Material: Wheel is rubber with metal frame - Package Includes: 1pc chosen wheel type * part of machine prototype 16 units	RDD	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	12,000.00	12,000.00	0.00	GAA (AESS)
50211990-00	6	3D Printing Services of Survey Kiosk - MIRCDC AM/Cen and DOST-ASTI - 3 sets initial design prototype + 3 sets final prototype - Design to be provided by DOST-ASTI 1 lot	RDD	NO	NP-53.5 Agency-to-Agency	2nd - 4th Quarter of 2023	GOP	415,000.00	415,000.00	0.00	GAA (AESS)
5020101000	6	Roundtrip Airfare Ticket for Official Travel from Manila to Davao to Manila - Number of persons: One (1) per lot - Schedule: 01 March 2023 - 03 March 2023 - with at least 10kg baggage allowance each for equipment *For Permanent/PS 4 lots	SSED	NO	Direct Retail Purchase of Petroleum Fuel, Oil and Lubricant (POL) Products and Airline Tickets	1st Quarter of 2023	GOP	49,140.00	49,140.00	0.00	GIA (SARW AIS)
5020101000	6	Roundtrip Airfare Ticket for Official Travel from Manila to Davao to Manila - Number of persons: One (1) per lot - Schedule: 02 March 2023 - 03 March 2023 - with at least 10kg baggage allowance each for equipment *For Permanent/PS 1 lot	SSED	NO	Direct Retail Purchase of Petroleum Fuel, Oil and Lubricant (POL) Products and Airline Tickets	1st Quarter of 2023	GOP	12,285.00	12,285.00	0.00	GIA (SARW AIS)
5021199000	6	Design, Production, and Supply of Instructional Video for the NTC RFC 6349 Network Measurement Tool - for FY 2023 use - 3 to 5 minute information video - Script and Content to be provided by NetMesh Team - Voice over script to be provided by supplier - Video resolution in full HD Quality 1920 x 1080 1 lot	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	300,000.00	300,000.00	0.00	GIA (NetMeshR8)
5021199000	6	Design, Production, and Supply of Informational Video for the NetMesh Project - for FY 2023 use - 3 to 5 minute information video - Script and Storyboard to be provided by NetMesh Team - Voice over script to be provided by supplier - Video resolution in full HD Quality 1920 x 1080 1 lot	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	335,000.00	335,000.00	0.00	GIA (NetMeshR8)
5020101000	6	Airfare Ticket for Official Travel from Manila to Cebu - For one (1) person - Schedule: 17 Feb 2023 - With provision for carry-on bag and checked bag *For Permanent *Note: Didn't purchase roundtrip ticket due to unavailability of seat for Feb 19 sched, and total price for airfare (from Manila to Cebu & Cebu to Manila) is cheaper (more economical) compared to roundtrip 1 lot	SSED	NO	Direct Retail Purchase of Petroleum Fuel, Oil and Lubricant (POL) Products and Airline Tickets	1st Quarter of 2023	GOP	1,908.56	1,908.56	0.00	GAA (EPDC)
5020101000	6	Airfare Ticket for Official Travel from Cebu to Manila - For one (1) person - Schedule: 19 Feb 2023 - With provision for carry-on bag and checked bag *For Permanent 1 lot	SSED	NO	Direct Retail Purchase of Petroleum Fuel, Oil and Lubricant (POL) Products and Airline Tickets	1st Quarter of 2023	GOP	2,487.41	2,487.41	0.00	GAA (EPDC)
50203210-02	6	Oven Toaster - Power Supply: 230V/60Hz - Capacity: 9 liters - Note: For EPDC 3rd floor (RED department) 1 unit	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	5,500.00	5,500.00	0.00	GAA (EPDC); Modified amount
50213210-13	6	Calibration of HIOKI Clamp on Sensor - 5AAC Voltage Output Sensor (2 units) - 500AAC Voltage Output Sensor (4 units) - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	5,280.00	5,280.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of HIOKI 3237 Digital Hitester - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	8,690.00	8,690.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of HIOKI 3174 AC Automatic Insulation/Withstanding HiTester - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	1,870.00	1,870.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of KIKUSUI PCZ1000A AC Electronic Load - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	4,070.00	4,070.00	0.00	GAA (EPDC)

50213050-14	6	Calibration of ED&D PFI-1000N 1000N Digital Force Gauge - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	1,210.00	1,210.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of ED&D CSW-01 Stopwatch - Testing Only - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	748.00	748.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of ED&D GC-2000 Ground Impedance Tester - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	1,925.00	1,925.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of T&D TR-73U Thermo Recorder - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	1,705.00	1,705.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of PREEN AFC-11005G AC Power Source - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	3,740.00	3,740.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of TEKTRONIX P6015A High Voltage Probe - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	7,700.00	7,700.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of HIOKI CM3286-01 AC Clamp Power Meter - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	1,650.00	1,650.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of HIOKI ST5541 Leakage Current HI Tester - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	2,585.00	2,585.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of KIKUSUI TOS5101 Withstanding Voltage Tester - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	2,970.00	2,970.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of TERCHY MHK-408AK Programmable Temperature and Humidity Chamber - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges - On-site calibration at EPDC 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	3,960.00	3,960.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of TERCHY MCK-290 Programmable Oven - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges - On-site calibration at EPDC 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	2,860.00	2,860.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of HIOKI IM3536 LCR Meter - Capacitance & Resistance - Note: For continuous operation of Prod 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	5,720.00	5,720.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of HIOKI IR4057 Insulation Tester - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	4,840.00	4,840.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of HIOKI PW3335 Power Meter - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	13,420.00	13,420.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of MITUTOYO MDC-1" PX Digital Micrometer - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	770.00	770.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of MITUTOYO CD-6" ASX Digital Caliper - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	935.00	935.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of KEITHLEY 2380-120-60 DC Electronic Load - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	3,899.50	3,899.50	0.00	GAA (EPDC)
50213050-14	6	Calibration of TEKTRONIX TDS2012C Digital Oscilloscope - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	4,800.00	4,800.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of HIOKI LR8402-20 Memory HiLogger - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	3,190.00	3,190.00	0.00	GAA (EPDC)
50213050-14	6	Calibration of MITUTOYO Pro 360 Digital Angle Meter - Note: For continuous operation of Product Safety testing laboratory - Includes taxes and service charges 1 lot	SSED	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	1,485.00	1,485.00	0.00	GAA (EPDC)
50207020-01	6	Onboard Charger - Electronic Component - For Prototype of EvCon - Nominal voltage: 48V - Output voltage range: 18-66V - Output current maximum: 25A - Compatible with LiFePo4 battery - 1.8KW 2 pcs	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	55,000.00	55,000.00	0.00	GAA (EPIIC)

50207020-01	6	Battery Management System - Electronic Component - For Prototype of EvCon - Supports from 1 to 16 cells in series - Designed for Lithium Ion battery packs up to 48V nominal (60V max) - Can measure cell voltages between 0.5v and 5.0v - Optional CAN BUS 2.0B interface (fully programmable) 1 set	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	50,000.00	50,000.00	0.00	GAA (EPIIC)
50207020-01	6	DC-DC Converter - Electronic Component - For Prototype of EvCon - 12 Volts @ 300 Watts, 24 Amps - Light load 13.5 Volts - Operating Temperature: -25C to +55C 2 sets	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	60,000.00	60,000.00	0.00	GAA (EPIIC)
50207020-01	6	Main Controller - Electronic Component - For Prototype of EvCon - Nominal voltage 24-48 VDC - Peak current 1 minute: 220A - Continuous Current: 112A - Max operating voltage: 60V 2 sets	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	100,000.00	100,000.00	0.00	GAA (EPIIC)
50207020-01	6	Throttle Control - Electronic Component - For Prototype of EvCon - Compatible with Curtis Controller - 2 wire and 3 wire design compatible 2 pcs	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	40,000.00	40,000.00	0.00	GAA (EPIIC)
50207020-01	6	Charging Socket - Electronic Component - For Prototype of EvCon - Socket Type 2 male (IEC 62196-2) - Maximum current: 32A - Maximum voltage: 250 / 400V (3phase) - Maximum charging power: 22 kW - Operating temperature range: -30C to + 50C 2 pcs	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	23,000.00	23,000.00	0.00	GAA (EPIIC)
50207020-01	6	Charger Set - Electronic Device - For Prototype of EvCon - Power Single Phase: 2kW, 8 Amp - Operating Temperature: -25 °C to +55 °C - Plug type: Type 2 - For E-Vehicle use 1 set	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	42,500.00	42,500.00	0.00	GAA (EPIIC)
50207020-01	6	3.2V 6000mAh Rechargeable Lithium Phosphate Battery Cell - Electronic Component - For Prototype of EvCon - Capacity: 3.2V 6Ah - Application : EV - Energy: 19.2Wh - Cycle life: >3000 cycles@1C 100% DOD - Recommend Charge Current: 1.5A - Max. Charge Current: 6A - Max. Continuous Discharge Current: 6A - Max. Pulse Current: 12A(10S) - Discharge Cut-off Voltage: 2.5V 400 pcs	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	118,000.00	118,000.00	0.00	GAA (EPIIC)
50203210-02	6	Arc and Mig Welding Machine - Mechanical Tools - For Prototype of EvCon - Voltage: 1 phase 220V+15% - Rated Input Current (A) -- MIG: 49A -- TIG: 37A -- MMA: 54A - MIG Output current (A): 30-300 - TIG Output Current (A): 10-300 - MMA Output Current (A): 20-300 - Output Voltage -- MIG: 15.5 - 29V -- TIG: 20.8 - 32V -- MMA: 10.6 - 22V - Duty cycle: 60% - Power Factor: 0.73 - Efficiency: 85 % - Wire Machine: Compact - Wire Speed: 2-13 m/min - Post puff: 1s - Wire Wheel Diameter: 150mm - Wire diameter -- MIG Flux: 0.8 - 1.0mm -- TIG: 1-2mm -- MMA: 1.6 - 3.2mm 1 set	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	12,375.00	12,375.00	0.00	GAA (EPIIC)
50203210-02	6	Cordless Impact Wrench Set - Mechanical Tools - For Prototype of EvCon - Voltage: 20V - Square Drive: 1/2" - No-load-speed: 0-1300/0-2300/min - Impact Rate: 0-2000/0-3300bpm - Max Torque: 300NM - 20V Lithium-Ion 2.0Ah batteries 1 set	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	25,500.00	25,500.00	0.00	GAA (EPIIC)

50203210-02	6	Cordless Hammer Drill Set - Mechanical Tools - For Prototype of EvCon - Power: 20V - Battery Capacity: 1.3 Ah - Max Torque: 29 N.m - Capacity: 13mm Chuck - No-load Speed: 0-400/0-1350 rpm 1 set	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	18,600.00	18,600.00	0.00	GAA (EPIIC)
50203210-02	6	Battery Charger - Mechanical Tools - For Prototype of EvCon - Input Voltage (V): 220 - 240 - Frequency (Hz): 50/60 - Charging Voltage(V): 12/24 - Input power (W): 1,000 - Effective current (A): 45 - Average current (A): 30 - Protection fuse (A): 50 1 set	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	7,000.00	7,000.00	0.00	GAA (EPIIC)
50203210-02	6	Handheld Grinder/Sander - Mechanical Tools - For Prototype of EvCon - Voltage: 220-240V~50/60Hz - Input power: 840W - No-load speed: 11000rpm - Disc diameter: 100mm - Spindle thread: M10 1 set	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	5,020.00	5,020.00	0.00	GAA (EPIIC)
50203210-02	6	Bench Vise - Mechanical Tools - For Prototype of EvCon - Material: Ductile Iron - Jaw Opening: Up to 100mm - Handle length : 165 mm - 360 degrees rotating head 1 pc	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	6,900.00	6,900.00	0.00	GAA (EPIIC)
50203990-00	6	Welding Rods - Workshop Consumables - For Prototype of EvCon - Size: 3/32"(2.4 mm) - 2.5kg per box 5 boxes	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	1,750.00	1,750.00	0.00	GAA (EPIIC)
50203990-00	6	High Voltage Gloves - PPE - For Prototype of EvCon - Insulating gloves that provide voltage protection. - Type/Material: Leather - Size: Big 2 pairs	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	1,300.00	1,300.00	0.00	GAA (EPIIC)
50203990-00	6	Goggles - PPE - For Prototype of EvCon - A type of personal protective equipment that is worn on the eye for its protection - Material: PC 8 pcs	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	1,400.00	1,400.00	0.00	GAA (EPIIC)
50203990-00	6	Multipurpose Grease - Workshop Consumables - For Prototype of EvCon - A solid or semisolid lubricant formed as a dispersion of thickening agents in a liquid lubricant. - Size/Weight: 2 kg 1 bottle	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	1,250.00	1,250.00	0.00	GAA (EPIIC)
50203990-00	6	Gear Lubricant - Workshop consumables - For Prototype of EvCon - A lubricant made specifically for transmissions, transfer cases, and differentials in automobiles, trucks, and other machinery. - Pour Point (C): -15 - Flash Point (C): 180 - Viscosity: 1 mm <sup>2</sup> /s @ 40°C: 359 2 mm <sup>2</sup> /s @ 100°C : 26.0 - Viscosity Index: 96 1 bottle	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	1,250.00	1,250.00	0.00	GAA (EPIIC)
50203990-00	6	Wires - Red (Automotive) - Wires - For Prototype of EvCon - Pieces of metal that transport electricity. - Core Diameter (mm): 0.32 - Thickness (sq): 0.85 - Length (m): 100 - Number of Cores: 11 - Allowable Current (A): 16A - Applicable Power: 16A - Color: Red 1 roll	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	8,000.00	8,000.00	0.00	GAA (EPIIC)
50203990-00	6	Wires - Black (Automotive) - Wires - For Prototype of EvCon - Pieces of metal that transport electricity. - Core Diameter (mm): 0.32 - Thickness (sq): 0.85 - Length (m): 100 - Number of Cores: 11 - Allowable Current (A): 16A - Applicable Power: 16A - Color: Black 1 roll	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	8,000.00	8,000.00	0.00	GAA (EPIIC)

50203990-00	6	<ul style="list-style-type: none"> <li>Crimp Terminals (Blue)</li> <li>- Workshop Consumables</li> <li>- For Prototype of EvCon</li> <li>- Overall Length (mm): 21.3</li> <li>- Stud diameter (Ømm): 3.7</li> <li>- Mass (g): 30</li> <li>- Type: Crimp terminal with insulation coating</li> <li>- Terminal Shape: Y type</li> <li>- 20 pcs per pack</li> <li>2 packs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	1,600.00	1,600.00	0.00	GAA (EPIIC)
50203990-00	6	<ul style="list-style-type: none"> <li>Crimp Terminals (Red)</li> <li>- Workshop Consumables</li> <li>- For Prototype of EvCon</li> <li>- Overall Length (mm): 20.5</li> <li>- Stud diameter (Ømm): 3.7</li> <li>- Mass (g): 30</li> <li>- Type: Crimp terminal with insulation coating</li> <li>- Terminal Shape: Y type</li> <li>- 25 pcs per pack</li> <li>2 packs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	1,600.00	1,600.00	0.00	GAA (EPIIC)
50203990-00	6	<ul style="list-style-type: none"> <li>Welding Mask</li> <li>- PPE</li> <li>- For Prototype of EvCon</li> <li>- Material: PP</li> <li>- Color: Black</li> <li>- Type: Worn on the head</li> <li>- Lens Holder: Flip-up</li> <li>- Length Size: 108 x 51 mm (4 1/4" x 2")</li> <li>2 pcs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	1,900.00	1,900.00	0.00	GAA (EPIIC)
50203210-02	6	<ul style="list-style-type: none"> <li>LED Flashlight (Work Light)</li> <li>- Electronic Device</li> <li>- For Prototype of EvCon</li> <li>- LED Type: 1 x Chip type white LED</li> <li>- Light Output: 130 lm (High Mode)</li> <li>- Battery type: 3 x AAA Alkaline Batteries</li> <li>- Runtime: 5.5h (High Mode) / 40h Eco Mode)</li> <li>- Lighting Technique: Wide Beam</li> <li>- Beam Distance: 130m</li> <li>- Water Proof (IPX4)</li> <li>4 pcs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	6,200.00	6,200.00	0.00	GAA (EPIIC)
50203210-02	6	<ul style="list-style-type: none"> <li>Feeler Gauge</li> <li>- Mechanical Tools</li> <li>- For Prototype of EvCon</li> <li>- Tool used to measure gap widths</li> <li>- Size/Blades: 26 different blades/sizes</li> <li>2 pcs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	400.00	400.00	0.00	GAA (EPIIC)
50203010-02	6	<ul style="list-style-type: none"> <li>Universal Socket Adapter</li> <li>- Electronic Component</li> <li>- For Prototype of EvCon</li> <li>- Voltage: 250 V</li> <li>- Current: 10A</li> <li>10 pcs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	1,000.00	1,000.00	0.00	GAA (EPIIC)
50203990-00	6	<ul style="list-style-type: none"> <li>Cable Ties</li> <li>- Workshop Consumables</li> <li>- For Prototype of EvCon</li> <li>- To fasten or bind several electronic cables or wires together or to route cables and wires together in a manageable format.</li> <li>- Size/Length: 66 x 300 mm</li> <li>- Color: Black</li> <li>- 100 pcs per pack</li> <li>5 packs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	2,500.00	2,500.00	0.00	GAA (EPIIC)
50203990-00	6	<ul style="list-style-type: none"> <li>Degreaser</li> <li>- Workshop Consumables</li> <li>- For Prototype of EvCon</li> <li>- Cleaning agent used to dissolve grease and oil from hard surfaces</li> <li>- Type: Multi-purpose</li> <li>- Nozzle type: Spray</li> <li>- Case: Metal</li> <li>5 pcs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	3,520.00	3,520.00	0.00	GAA (EPIIC)
50203990-00	6	<ul style="list-style-type: none"> <li>Metal Drill Bits</li> <li>- Workshop Consumables</li> <li>- For Prototype of EvCon</li> <li>- Cutting tools used in a drill to remove material to create holes.</li> <li>- Set Type: Jobber Drill Set</li> <li>- Minimum Size: 1mm</li> <li>- Maximum Size: 13mm</li> <li>- Drilling Application: Metal</li> <li>- Material: HSS</li> <li>- Point Angle: 118degrees</li> <li>2 sets</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	23,000.00	23,000.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>ARM M7 Microcontroller</li> <li>- Electronic Component</li> <li>- For Prototype of EvCon</li> <li>- Core Processor: ARM® Cortex®-M7</li> <li>- Core Size: 32-Bit</li> <li>- Speed: 528 Mhz</li> <li>- Peripherals: DMA, I2S, LCD, PWM, WDT</li> <li>- Program Memory Size: 128KB (128K x 8)</li> <li>- Program Memory Type: ROM</li> <li>- Package: 169 - LFBGA</li> <li>2 pcs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	2,500.00	2,500.00	0.00	GAA (EPIIC)

50207020-01	6	<ul style="list-style-type: none"> <li>ARM M7 Evaluation Board</li> <li>- Development Board</li> <li>- For Prototype of EvCon</li> <li>- Audio</li> <li>-- WM8960 stereo audio codec</li> <li>-- 4-pole audio headphone + microphone jack</li> <li>-- External speaker connection points</li> <li>-- Microphone</li> <li>-- S/PDIF connector</li> <li>-- Audio expansion connector</li> <li>- Board Memory:</li> <li>-- 256 Mb SDRAM memory</li> <li>-- 64 Mb QSPI Flash</li> <li>-- TF socket for SD card</li> <li>- Connectivity</li> <li>-- MURATA Type 1XK Ultra Small Dual band Wi-Fi 11a/b/g/n + Bluetooth 5.2 Module powered by NXP IW416</li> <li>-- Micro USB host and OTG connectors</li> <li>-- Ethernet (10/100 M) PHY and RJ45 connector</li> <li>-- CAN/CAN-FD transceiver</li> <li>- Debug Capabilities:</li> <li>-- LPC-Link2 debug high speed USB probe with VCOM port</li> <li>-- J-Link firmware option</li> <li>-- SWO trace support</li> <li>-- JTAG/SWD debug connector to allow debug of target microcontroller using an external probe</li> <li>- Expansion Connectors:</li> <li>-- Arduino UNO R3 expansion header</li> <li>-- MikroE Click expansion header</li> <li>-- I2C expansion connector</li> <li>-- Audio expansion connector</li> <li>- Processor: MIMXRT1042kj M5B processor</li> <li>- Sensors: NXP FXLS8974CF: ±2g/±4g/±8g/±16g, Low-Power 12-Bit Digital IoT Accelerometer</li> <li>- User Interface:</li> <li>-- Parallel LCD display connector</li> <li>-- Wake up / User button</li> <li>-- User LED</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	15,900.00	15,900.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>Electric Drive Motor</li> <li>- Electronic Component</li> <li>- For Prototype of EvCon</li> <li>- Used for the transformation of electrical power into mechanical energy.</li> <li>- Nominal voltage: 24 to 48 VDC</li> <li>- Maximum speed: 5000</li> <li>- Max continuous flow: 80A</li> <li>- Max peak current: 220A for 1 minute</li> <li>- Max torque: 38Nm</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	97,600.00	97,600.00	0.00	GAA (EPIIC)
50203210-02	6	<ul style="list-style-type: none"> <li>Cordless Angle Grinder</li> <li>- Mechanical Tools</li> <li>- For Prototype of EvCon</li> <li>- Hand-held tool used for grinding and sanding surfaces.</li> <li>- Voltage rating: 18V</li> <li>- Speed: 9200 RPM</li> <li>- Battery capacity: 4Ah</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	17,600.00	17,600.00	0.00	GAA (EPIIC)
50203210-02	6	<ul style="list-style-type: none"> <li>Cordless Impact Driver</li> <li>- Mechanical Tools</li> <li>- For Prototype of EvCon</li> <li>- Hand-held tool used to easily drive screws</li> <li>- RPM: 0 - 850 / 0 - 2,000 / 0 - 2,900 / 0 - 2,900 (Assist)</li> <li>- IPM: 0 - 4,000</li> <li>- Torque: Up to 2,200 in-lbs.</li> <li>- Collet: 1/4" Hex</li> <li>- Battery capacity: 2Ah</li> <li>- Voltage rating: 18VDC</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	16,700.00	16,700.00	0.00	GAA (EPIIC)
50203210-02	6	<ul style="list-style-type: none"> <li>Bench Grinder</li> <li>- Mechanical Tools</li> <li>- For Prototype of EvCon</li> <li>- Benchtop type of grinding machine used to drive abrasive wheels.</li> <li>- Continuous rating input: 550W</li> <li>- Wheel diameter: 205 mm</li> <li>- Wheel width: 19 mm</li> <li>- Hole diameter: 15.88 mm</li> <li>- HP: 3/4</li> <li>- Voltage rating: 220VAC</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	16,700.00	16,700.00	0.00	GAA (EPIIC)
50203210-02	6	<ul style="list-style-type: none"> <li>Spot Welding Machine</li> <li>- Mechanical tools</li> <li>- For Prototype of EvCon</li> <li>- Used to weld two metals at a single spot</li> <li>- Input voltage: 110V/220V</li> <li>- Power: 3.6KW</li> <li>- Maximum welding thickness: 0.3mm</li> <li>- Welding current: 120A-1100A</li> <li>- Application: Battery pack welding</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	25,560.00	25,560.00	0.00	GAA (EPIIC)
50203210-02	6	<ul style="list-style-type: none"> <li>Industrial Automatic Air Line Hose Reel</li> <li>- Mechanical tools</li> <li>- For Prototype of EvCon</li> <li>- A hose capable of delivering high pressure air from the air compressor to the pneumatic tool housed in a housing with retractable function for easy deployment and storage.</li> <li>- Size: 15m/50ft</li> <li>- Working pressure: 10 bar/150 psi</li> <li>- Max working pressure: 300 psi</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	7,900.00	7,900.00	0.00	GAA (EPIIC)

50203990-00	6	<ul style="list-style-type: none"> <li>Gloves</li> <li>- PPE</li> <li>- For Prototype of EvCon</li> <li>- A covering for the hand worn for protection against cold or dirt and typically having separate parts for each finger and the thumb.</li> <li>- Size: XL</li> <li>- Type: Latex gloves</li> <li>16 pairs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	2,050.00	2,050.00	0.00	GAA (EPIIC)
50203990-00	6	<ul style="list-style-type: none"> <li>Angle Grinder Cutting Disc</li> <li>- Workshop Consumables</li> <li>- For Prototype of EvCon</li> <li>- Used as a cutting material</li> <li>- Size/Diameter: 5 inches</li> <li>- Thickness: 6 mm</li> <li>- Must be compatible with Makita angle grinder</li> <li>25 pcs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	3,100.00	3,100.00	0.00	GAA (EPIIC)
50203990-00	6	<ul style="list-style-type: none"> <li>Bench Grinder Disc (Grit 60)</li> <li>- Workshop Consumables</li> <li>- For Prototype of EvCon</li> <li>- Used as a cutting material</li> <li>- Diameter: 8 inches</li> <li>- Thickness: 19 mm</li> <li>- Bore: 15.88 mm</li> <li>- Grit: 60</li> <li>1 pc</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	1,350.00	1,350.00	0.00	GAA (EPIIC)
50203990-00	6	<ul style="list-style-type: none"> <li>Bench Grinder Disc (Grit 120)</li> <li>- Workshop Consumables</li> <li>- For Prototype of EvCon</li> <li>- Used as a cutting material</li> <li>- Diameter: 8 inches</li> <li>- Thickness: 19 mm</li> <li>- Bore: 5/8 mm</li> <li>- Grit: 120</li> <li>1 pc</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	2,050.00	2,050.00	0.00	GAA (EPIIC)
50203990-00	6	<ul style="list-style-type: none"> <li>Tabbing Wire for 32700 LiFePo4 Battery</li> <li>- Electrical connectors</li> <li>- For Prototype of EvCon</li> <li>- A flat copper wire used to connect cells together to produce desired voltage and current configurations.</li> <li>- Width: 8mm</li> <li>- Thickness: 0.15mm</li> <li>- Length: 1m</li> <li>10 reels</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	2,250.00	2,250.00	0.00	GAA (EPIIC)
50203990-00	6	<ul style="list-style-type: none"> <li>32700/32650 Battery Holder</li> <li>- Mechanical accessories</li> <li>- For Prototype of EvCon</li> <li>- It provides perfect spacing for cells and snap the together for battery pack assembly.</li> <li>- Must be suitable to 32700/32650 batteries/cells.</li> <li>- Material: Plastic</li> <li>- Color: Black</li> <li>- Size 3X: 103.3*34.4*10mm</li> <li>- Diameter: 32.4mm</li> <li>280 pairs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	8,260.00	8,260.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>Linear Voltage Regulator 5V</li> <li>- Electronic component</li> <li>- For Prototype of EvCon</li> <li>- Electronic component used to maintain a constant voltage.</li> <li>- Voltage - Input (Max): 30V</li> <li>- Voltage - Output (Min/Fixed): 5V</li> <li>- Current - Output: 100mA</li> <li>- Current - Quiescent (Iq): 5.5 mA</li> <li>- Current - Supply (Max): 6 mA</li> <li>10 pcs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	530.00	530.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>8MHz 10pF Crystal</li> <li>- Electronic component</li> <li>- For Prototype of EvCon</li> <li>- An electric oscillator type circuit that uses a piezoelectric crystal as its frequency-determining element.</li> <li>- Frequency: 8 MHz</li> <li>- Frequency Stability: ±10ppm</li> <li>- Frequency Tolerance: ±10ppm</li> <li>- Load Capacitance: 10pF</li> <li>- ESR (Equivalent Series Resistance): 200 Ohms</li> <li>10 pcs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	680.00	680.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>Green, Red Indication LED</li> <li>- Electronic component</li> <li>- For Prototype of EvCon</li> <li>- Used as a light indicator to reveal the status of an electronic device.</li> <li>- Color: Green, Red</li> <li>- Configuration: Common Cathode</li> <li>- Lens Color: White</li> <li>- Lens Transparency: Diffused</li> <li>- Millicandela Rating: 9mcd Green, 10mcd Red</li> <li>- Lens Style: Rectangle with Flat Top</li> <li>- Lens Size: 5.00mm x 2.00mm</li> <li>- Voltage - Forward (Vf) (Typ): 2.2V Green, 2V Red</li> <li>- Current - Test: 20mA Green, 20mA Red</li> <li>- Viewing Angle: 110°</li> <li>- Mounting Type: Through Hole</li> <li>- Wavelength - Dominant: 568nm Green, 617nm Red</li> <li>- Wavelength - Peak: 565nm Green, 627nm Red</li> <li>10 pcs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	505.00	505.00	0.00	GAA (EPIIC)



50207020-01	6	<ul style="list-style-type: none"> <li>40V NPN Transistor</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- A semiconductor device used to amplify or switch electrical signals and power.</li> <li>- Transistor Type: NPN</li> <li>- Current - Collector (Ic) (Max): 600 mA</li> <li>- Voltage - Collector Emitter Breakdown (Max): 40 V</li> <li>- Vce Saturation (Max) @ Ie, Ic: 750mV @ 50mA, 500mA</li> <li>- Current - Collector Cutoff (Max): 50nA (ICBO)</li> <li>- DC Current Gain (hFE) (Min) @ Ic, Vce: 80 @ 10mA, 1V</li> <li>- Power - Max: 250 mW</li> <li>- Frequency - Transition: 250MHz</li> <li>- Operating Temperature: 150°C (TJ)</li> <li>- Mounting Type: Surface Mount</li> <li>- Package / Case: TO-236-3, SC-59, SOT-23-3</li> <li>10 pcs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	300.00	300.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>40V PNP Transistor</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- A semiconductor device used to amplify or switch electrical signals and power.</li> <li>- Transistor Type: PNP</li> <li>- Current - Collector (Ic) (Max): 600 mA</li> <li>- Voltage - Collector Emitter Breakdown (Max): 40 V</li> <li>- Vce Saturation (Max) @ Ie, Ic: 750mV @ 50mA, 500mA</li> <li>- Current - Collector Cutoff (Max): 50nA (ICBO)</li> <li>- DC Current Gain (hFE) (Min) @ Ic, Vce: 100 @ 150mA, 2V</li> <li>- Power - Max: 250 mW</li> <li>- Frequency - Transition: 200MHz</li> <li>- Operating Temperature: 150°C (TJ)</li> <li>- Mounting Type: Surface Mount</li> <li>- Package / Case: TO-236-3, SC-59, SOT-23-3</li> <li>10 pcs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	120.00	120.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>72V 1.1A 1h PTC Resettable Fuse</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- Used to protect against overcurrent faults in electronic circuits.</li> <li>- Type: Polymeric</li> <li>- Voltage - Max: 72V</li> <li>- Current - Max: 40 A</li> <li>- Current - Hold (Ih) (Max): 1.1 A</li> <li>- Current - Trip (It): 2.2 A</li> <li>- Time to Trip: 8.2 s</li> <li>- Resistance - Initial (Ri) (Min): 150 mOhms</li> <li>- Resistance - Post Trip (Rt) (Max): 380 mOhms</li> <li>- Operating Temperature: -40°C ~ 85°C</li> <li>- Mounting Type: Through Hole</li> <li>- Package / Case: Radial, Disc</li> <li>20 pcs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	700.00	700.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>72V 300mA 1h PTC Resettable Fuse</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- Used to protect against overcurrent faults in electronic circuits.</li> <li>- Type: Polymeric</li> <li>- Voltage - Max: 72V</li> <li>- Current - Max: 40 A</li> <li>- Current - Hold (Ih) (Max): 300 mA</li> <li>- Current - Trip (It): 600 mA</li> <li>- Time to Trip: 3 s</li> <li>- Resistance - Initial (Ri) (Min): 880 mOhms</li> <li>- Resistance - Post Trip (Rt) (Max): 2.1 Ohms</li> <li>- Operating Temperature: -40°C ~ 85°C</li> <li>- Mounting Type: Through Hole</li> <li>- Package / Case: Radial, Disc</li> <li>10 pcs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	575.00	575.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>60V 50mA 1h PTC Resettable Fuse</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- Used to protect against overcurrent faults in electronic circuits.</li> <li>- Type: Polymeric</li> <li>- Voltage - Max: 60V</li> <li>- Current - Max: 10 A</li> <li>- Current - Hold (Ih) (Max): 50 mA</li> <li>- Current - Trip (It): 150 mA</li> <li>- Time to Trip: 1.5 s</li> <li>- Resistance - Initial (Ri) (Min): 3.6 Ohms</li> <li>- Resistance - Post Trip (Rt) (Max): 50 Ohms</li> <li>- Operating Temperature: -40°C ~ 85°C</li> <li>- Mounting Type: Surface Mount</li> <li>- Package / Case: 1206 (3216 Metric), Concave</li> <li>20 pcs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	285.00	285.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>General Purpose Digital Isolator</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- Used to isolate digital signals and transfer digital communication across an isolation barrier.</li> <li>- Type: General Purpose</li> <li>- Number of Channels: 4</li> <li>- Inputs - Side 1/Side 2: 3/1</li> <li>- Channel Type: Unidirectional</li> <li>- Voltage - Isolation: 2500Vrms</li> <li>- Common Mode Transient Immunity (Min): 25kV/µs</li> <li>- Data Rate: 1Mbps</li> <li>- Propagation Delay tpLH / tpHL (Max): 100ns, 100ns</li> <li>- Pulse Width Distortion (Max): 40ns</li> <li>- Rise / Fall Time (Typ): 2.5ns, 2.5ns</li> <li>- Voltage - Supply: 2.7V ~ 5.5V</li> <li>- Operating Temperature: -40°C ~ 105°C</li> <li>- Mounting Type: Surface Mount</li> <li>20 pcs</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	11,750.00	11,750.00	0.00	GAA (EPIIC)

50207020-01	6	<ul style="list-style-type: none"> <li>- Isolation Amplifier</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- An op-amp which provides isolation of one part of a circuit from another, so that power is not used, drawn, or wasted in a part of the circuit.</li> <li>- Amplifier Type: Isolation</li> <li>- Output Type: Differential</li> <li>- 3db Bandwidth: 100 kHz</li> <li>- Voltage - Input Offset: 200 <math>\mu</math>V</li> <li>- Current - Supply: 5.4mA</li> <li>- Voltage - Supply Span (Min): 2.7 V</li> <li>- Voltage - Supply Span (Max): 5.5 V</li> <li>- Operating Temperature: -40°C ~ 105°C</li> <li>- Mounting Type: Surface Mount</li> <li>- Package / Case: 8-SOIC</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	4,700.00	4,700.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>- 16MHz 8-bit Microcontroller</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- An integrated circuit used as a control system.</li> <li>- Mounting Style: SMD/SMT</li> <li>- Package / Case: TQFP-32</li> <li>- Core: AVR</li> <li>- Program Memory Size: 64 kB</li> <li>- Data Bus Width: 8 bit</li> <li>- ADC Resolution: 10 bit</li> <li>- Maximum Clock Frequency: 16 MHz</li> <li>- Number of I/Os: 27 I/O</li> <li>- Data RAM Size: 4 kB</li> <li>- Supply Voltage - Min: 2.7 V</li> <li>- Supply Voltage - Max: 5.5 V</li> <li>- Minimum Operating Temperature: - 40 C</li> <li>- Maximum Operating Temperature: + 85 C</li> <li>- Data RAM Type: SRAM</li> <li>- Data ROM Size: 2 kB</li> <li>- Data ROM Type: EEPROM</li> <li>- Interface Type: CAN, LIN, SPI, UART</li> <li>- Moisture Sensitive: Yes</li> <li>- Number of ADC Channels: 11 Channel</li> <li>- Number of Timers/Counters: 2 Timer</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	6,000.00	6,000.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>- General purpose Diode</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- An electronic component that conducts current primarily in one direction.</li> <li>- Voltage - DC Reverse (Vr) (Max): 350 V</li> <li>- Current - Average Rectified (Io): 200mA</li> <li>- Voltage - Forward (Vf) (Max) @ If: 1.25 V @ 200 mA</li> <li>- Speed: Small Signal =&lt; 200mA (Io), Any Speed</li> <li>- Reverse Recovery Time (trr): 50 ns</li> <li>- Current - Reverse Leakage @ Vr: 100 nA @ 240 V</li> <li>- Capacitance @ Vr, Ff: 1pF @ 0V, 1MHz</li> <li>- Mounting Type: Surface Mount</li> <li>- Package / Case: SOD-123</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	205.00	205.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>- Tactile Switch</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- A switch whose operation is perceptible by touch</li> <li>- Type: SPST</li> <li>- Mounting type: Through hole</li> <li>- Contact rating @ Voltage: 0.05A @ 24VDC</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	120.00	120.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>- Optocoupler</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- A device containing light-emitting and light-sensitive components, used to couple isolated circuits.</li> <li>- Mounting Style: SMD/SMT</li> <li>- Package / Case: SMT-4</li> <li>- Number of Channels: 1 Channel</li> <li>- Isolation Voltage: 5000 Vrms</li> <li>- Output Type: Photodarlington</li> <li>- If - Forward Current: 50 mA</li> <li>- Vf - Forward Voltage: 1.4 V</li> <li>- Maximum Collector Emitter Voltage: 300 V</li> <li>- Maximum Collector Current: 150 mA</li> <li>- Maximum Collector Emitter Saturation Voltage: 1.2 V</li> <li>- Rise Time: 300 us</li> <li>- Fall Time: 100 us</li> <li>- Vr - Reverse Voltage: 6 V</li> <li>- Pd - Power Dissipation: 200 mW</li> <li>- Minimum Operating Temperature: - 30 C</li> <li>- Maximum Operating Temperature: + 100 C</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	1,050.00	1,050.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>- CAN Transceiver</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- Converts the single-ended logic-level output signal (TXD) from the CAN controller to a differential signal.</li> <li>- Type: Transceiver</li> <li>- Protocol: CANbus</li> <li>- Number of Drivers/Receivers: 1/1</li> <li>- Duplex: Half</li> <li>- Receiver Hysteresis: 125 mV</li> <li>- Voltage - Supply: 4.75V ~ 5.25V</li> <li>- Operating Temperature: -40°C ~ 125°C</li> <li>- Mounting Type: Surface Mount</li> <li>- Package / Case: 6-SOIC</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	1,980.00	1,980.00	0.00	GAA (EPIIC)

50207020-01	6	<ul style="list-style-type: none"> <li>Battery Monitor IC</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- An integrated circuit that monitors the voltage of a battery.</li> <li>- Function: Battery Monitor</li> <li>- Number of Cells: 1 ~ 12</li> <li>- Fault Protection: Over/Under Voltage</li> <li>- Interface: Serial</li> <li>- Operating Temperature: -40°C ~ 85°C (TA)</li> <li>- Mounting Type: Surface Mount</li> <li>- Supplier Device Package: 44-SSOP</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	61,800.00	61,800.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>5V DC DC Converter</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- Converts one DC voltage to another</li> <li>- Type: Isolated Module</li> <li>- Number of Outputs: 1</li> <li>- Voltage - Input (Min): 4.5V</li> <li>- Voltage - Input (Max): 5.5V</li> <li>- Voltage - Output: 5V</li> <li>- Current - Output (Max): 200mA</li> <li>- Power (Watts): 1 W</li> <li>- Voltage - Isolation: 1 kV</li> <li>- Features: SCP</li> <li>- Operating Temperature: -40°C ~ 85°C</li> <li>- Efficiency: 75%</li> <li>- Mounting Type: Surface Mount</li> <li>- Package / Case: 8-SMD Module, 5 Leads</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	3,355.00	3,355.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>18 Position Terminal Block Header</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- Used to connect wires or cables to a circuit board or other electrical device.</li> <li>- Type: Header, Male Pins, Shrouded (4 Side)</li> <li>- Number of Positions: 18</li> <li>- Positions Per Level: 18</li> <li>- Number of Levels: 1</li> <li>- Pitch: 0.200" (5.08mm)</li> <li>- Header Orientation: 90°, Right Angle</li> <li>- Termination Style: Solder</li> <li>- Mounting Type: Through Hole</li> <li>- Current - IEC: 20A</li> <li>- Voltage - IEC: 320 V</li> <li>- Current - UL: 16 A</li> <li>- Voltage - UL: 300 V</li> <li>- Operating Temperature: -40°C ~ 105°C</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	1,575.00	1,575.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>2 Position Wire to Board Terminal Block Horizontal with Board</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- Used to connect wires or cables to a circuit board or other electrical device.</li> <li>- Number of Levels: 1</li> <li>- Positions Per Level: 2</li> <li>- Pitch: 0.197" (5.00mm)</li> <li>- Mating Orientation: Horizontal with Board</li> <li>- Current: 15 A</li> <li>- Voltage: 300 V</li> <li>- Wire Gauge: 14-22 AWG</li> <li>- Mounting Type: Through Hole</li> <li>- Wire Termination: Screw - Leaf Spring, Wire Guard</li> <li>- Features: Interlocking (Side)</li> <li>- Operating Temperature: -30°C ~ 105°C</li> <li>- Screw Thread: M2.6</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	3,720.00	3,720.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>3 Position Wire to Board Terminal Block Horizontal with Board</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- Used to connect wires or cables to a circuit board or other electrical device.</li> <li>- Number of Levels: 1</li> <li>- Positions Per Level: 3</li> <li>- Pitch: 0.197" (5.00mm)</li> <li>- Mating Orientation: Horizontal with Board</li> <li>- Current: 15 A</li> <li>- Voltage: 300 V</li> <li>- Wire Gauge: 14-22 AWG</li> <li>- Mounting Type: Through Hole</li> <li>- Wire Termination: Screw - Leaf Spring, Wire Guard</li> <li>- Features: Interlocking (Side)</li> <li>- Operating Temperature: -30°C ~ 105°C</li> <li>- Screw Thread: M2.6</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	800.00	800.00	0.00	GAA (EPIIC)
50207020-01	6	<ul style="list-style-type: none"> <li>P-Channel MOSFET</li> <li>- Electronic component</li> <li>- For Prototype of EVCon</li> <li>- A type of field effect Transistor where the voltage determines the conductivity of the device.</li> <li>- FET Type: P-Channel</li> <li>- Technology: MOSFET (Metal Oxide)</li> <li>- Drain to Source Voltage (Vdss): 20 V</li> <li>- Current - Continuous Drain (Id) @ 25°C: 2.2A (Ta)</li> <li>- Drive Voltage (Max Rds On, Min Rds On): 2.5V, 4.5V</li> <li>- Rds On (Max) @ Id, Vgs: 100mOhm @ 2.8A, 4.5V</li> <li>- Vgs(th) (Max) @ Id: 950mV @ 250µA</li> <li>- Gate Charge (Qg) (Max) @ Vgs: 10 nC @ 4.5 V</li> <li>- Vgs (Max): ±8V</li> <li>- Input Capacitance (Ciss) (Max) @ Vds: 375 pF @ 6 V</li> <li>- Operating Temperature: -55°C ~ 150°C (Tj)</li> <li>- Mounting Type: Surface Mount</li> <li>- Supplier Device Package: SOT-23-3 (TO-236)</li> </ul>	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	7,000.00	7,000.00	0.00	GAA (EPIIC)

50207020-01	6	TVS Diode - Electronic component - For Pretotype of EVCon - An electronic component that conducts current primarily in one direction. - Type: Zener - Bidirectional Channels: 1 - Voltage - Reverse Standoff (Typ): 64V - Voltage - Breakdown (Min): 71.1V - Voltage - Clamping (Max) @ Ipp: 103V - Current - Peak Pulse (10/1000µs): 3.9A - Power - Peak Pulse: 400W - Operating Temperature: -55°C ~ 150°C (TJ) - Mounting Type: Surface Mount - Package / Case: DO-214AC, SMA 20 pcs	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	700.00	700.00	0.00	GAA (EPIIC)
50207020-01	6	12V DC DC Converter - Electronic component - For Pretotype of EVCon - Converts one DC voltage to another - Number of Outputs: 1 - Voltage - Input (Min): 18V - Voltage - Input (Max): 75V - Voltage - Output: 12V - Current - Output (Max): 500mA - Power (Watts): 6 W - Voltage - Isolation: 1.5 kV - Operating Temperature: -40°C ~ 85°C - Efficiency: 88% - Mounting Type: Through Hole - Package / Case: 8-SIP Module, 7 Leads 10 pcs	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	10,010.00	10,010.00	0.00	GAA (EPIIC)
50207020-01	6	Solid State Relay - Electronic component - For Pretotype of EVCon - An electronic switching device that switches on or off when an external voltage (AC or DC) is applied across its control terminals. - Mounting Type: Surface Mount - Output Type: AC, DC - Voltage - Input: 1.64VDC - Voltage - Load: 0 V ~ 100 V - Load Current: 3.5 A - On-State Resistance (Max): 80 mOhms - Termination Style: Gull Wing - Package / Case: 6-SMD (0.300", 7.62mm) 20 pcs	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	6,850.00	6,850.00	0.00	GAA (EPIIC)
50207020-01	6	1nF 25V 1206 SMD Capacitor - Electronic component - For Pretotype of EVCon - Used to store electrical energy in an electric field by virtue of accumulating electric charges on two close surfaces insulated from each other. - Capacitance: 1000 pF - Tolerance: ±5% - Voltage - Rated: 25V - Mounting Type: Surface Mount, MLCC - Package / Case: 1206 (3216 Metric) 10 pcs	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	250.00	250.00	0.00	GAA (EPIIC)
50207020-01	6	1µF 100V 1206 SMD Capacitor - Electronic component - For Pretotype of EVCon - Used to store electrical energy in an electric field by virtue of accumulating electric charges on two close surfaces insulated from each other. - Capacitance: 1 µF - Tolerance: ±5% - Voltage - Rated: 100V - Mounting Type: Surface Mount - Package / Case: 1206 (3216 Metric), MLCC 10 pcs	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	465.00	465.00	0.00	GAA (EPIIC)
50207020-01	6	Wireless Communication Module with LoRa Technology - Electronic component - For Pretotype of EVCon - Used to communicate with other devices in the network wirelessly. - IC Transceiver : RFM9x - ISM Band: European ISM @ 868MHz or ISM @ 916 MHz - Output Power : +/- 5 to +/- 20 dBm and up to 100mW - Interface: SX1276 LoRa based with SPI - Range: approximately 2Km or better. 2 sets	SSED	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	3,950.00	3,950.00	0.00	GAA (EPIIC)
5020399000	6	Magnetic Flexible Bed for Large 3D Printer Note: consumable to be used for prototyping (used as a replaceable surface pads for 3d printing) Specifications: * compatible with large 3D printers 1 unit	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	4,000.00	4,000.00	0.00	GAA (Gulaj); Modified amount
50203210-02	6	Cordless Power Drill Note: tools for use in prototyping (used as cordless drilling power tool) Specifications: * with rechargeable batteries * with drill bits included 1 unit	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	17,000.00	17,000.00	0.00	GAA (Gulaj); Modified amount
5020399000	6	Cable Tie Nylon (4 x 200mm) 50PCS Note: a consumable item to be used in prototyping (used as a consumable with a purpose of wire management and organization) Specifications: * 4x200mm * color: black/white 5 sets	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	800.00	800.00	0.00	GAA (Gulaj); Modified amount

50203210-02	6	Professional Silicone-Tip Solder Sucker Note: tools for use in prototyping (used as a desoldering tool to remove the lead from the electronic components in the prototype) Specifications: * Dimensions: 8.1 x 3.4 x 0.7 inches *Weight: 52g *Cylinder Capacity: 9cc 2 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	5,000.00	5,000.00	0.00	GAA (Gulaj); Modified description, amount
50203210-02	6	Portable Workbench Note: tool to be used for prototyping (used as a working bench for hardware works) Specifications: * heavy duty * foldable 1 unit	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	18,000.00	18,000.00	0.00	GAA (Gulaj); Modified amount
5020399000	6	Electronics contact cleaner 500 ml Note: a consumable item to be used in prototyping (used as a cleaner of electronics circuit used in prototyping) Specifications: * 500 ml * quick drying 10 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	10,000.00	10,000.00	0.00	GAA (Gulaj); Modified amount
5020399000	6	Teflon for 1/2" Note: a consumable item to be used in prototyping (used as a leak preventive tape for plumbing works ) Specifications: * for 1/2" pvc pipe * heavy duty 10 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	1,700.00	1,700.00	0.00	GAA (Gulaj); Modified amount
5020399000	6	PVC cement Note: consumable to be used for prototyping (used as leak prevention in plumbing works for the prototype) Specifications: * quick-action * heat resistant 5 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	3,600.00	3,600.00	0.00	GAA (Gulaj); Modified amount
5020399000	6	Flexible Magnetic Build Surface Pads for 3D printer Ender-3 Pro compatible Note: consumable to be used for prototyping (used as a replaceable surface pads for 3d printing) Specifications: * replaceable * Ender-3 Pro compatible 4 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	9,500.00	9,500.00	0.00	GAA (Gulaj); Modified amount
50203210-02	6	PCB rotary drilling tool with drill bit set Note: tool to be used for prototyping (an hand equipment used specifically for drilling holes into the printed circuit board) Specifications: * handy and compact * 12 Volts DC 1 set	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	4,000.00	4,000.00	0.00	GAA (Gulaj); Modified amount
50203210-02	6	Heavy Duty Automatic Wire Stripper and Cutter Note: tool to be used for prototyping (used as a hand tool in stripping color coded wires) Specifications: * heavy duty 2 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	4,500.00	4,500.00	0.00	GAA (Gulaj); Modified amount
5020399000	6	Soldering Lead 1 roll (1mm) Note: a consumable item used for prototyping (Used as a consumable lead material used for soldering electronic components) Specifications: * thickness: 1mm 5 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	3,000.00	3,000.00	0.00	GAA (Gulaj); Modified amount
5020399000	6	Soldering Paste Note: a consumable item used for prototyping (Used as a consumable to aid soldering in binding with conductors) Specifications: * heavy duty 4 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	2,000.00	2,000.00	0.00	GAA (Gulaj); Modified amount
50203210-02	6	PCB ruler Note: tool to be used for prototyping (used as a special measuring tool for pcb prototyping) Specifications: * with electronic component references 3 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	1,000.00	1,000.00	0.00	GAA (Gulaj); Modified amount
5020322001	6	16 drawers steel cabinet for parts storage, 552mm x 150mm x 306mm Note: storage of components to be used for prototyping (used as storage compartments to the procured parts to be used for prototyping) Specifications: * 552mmx150mmx306mm * steel cabinet 1 unit	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	12,500.00	12,500.00	0.00	GAA (Gulaj); Modified amount
50203210-02	6	heavy duty bolt cutter Note: tool to be used for prototyping (used as cutting thicker materials such as chain, metals, locks, thick meshes of wires, solid wires) Specifications: * 12" size * heavy duty * vanadium steel 2 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	2,500.00	2,500.00	0.00	GAA (Gulaj); Modified description, amount

50203210-02	6	Heavy Duty Chrome vanadium steel pliers Note: tool to be used for prototyping (used as cutting, shaping and twisting tool for prototyping) Specifications: * 200mm, 8" size * heavy duty * vanadium steel 4 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	4,000.00	4,000.00	0.00	GAA (Gulaj); Modified amount
50203210-02	6	Heavy Duty PVC Pipe Cutter Note: tool to be used for prototyping (used as pipe cutting tool to be used for the prototype) Specifications:bol * heavy duty 2 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	3,300.00	3,300.00	0.00	GAA (Gulaj); Modified amount
50203210-02	6	Heavy Duty Wire Stripper Note: tool to be used for prototyping (used as a stripping tool for wires to be used in the prototype) Specifications: * heavy duty 2 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	5,800.00	5,800.00	0.00	GAA (Gulaj); Modified amount
50203210-02	6	3 Piece Metal Step Drill Bit Set, 4mm to 30mm Note: tool to be used for prototyping (used as a replaceable drill motor peripheral used for drilling bigger holes holes for prototyping) Specifications: * heavy duty * 4mm to 30mm 2 sets	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	23,000.00	23,000.00	0.00	GAA (Gulaj); Modified amount
50203210-02	6	Glass twist drill bit set 4mm to 8mm Note: tool to be used for prototyping (used as a replaceable drill motor peripheral used for drilling holes for prototyping) Specifications: * heavy duty * for glass 2 sets	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	7,500.00	7,500.00	0.00	GAA (Gulaj); Modified amount
50203210-02	6	cordless angle grinder Note: tool to be used for prototyping (used as a power equipment for cutting different types of material used in fabrication and prototyping) Specifications: * heavy duty 2 units	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	15,000.00	15,000.00	0.00	GAA (Gulaj); Modified amount
5020399000	6	cutting disc for metal Note: a consumable item used for prototyping (used as a disposable disc for use by angle grinder) Specifications: * for metal * 0.6mm 3 boxes	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	3,500.00	3,500.00	0.00	GAA (Gulaj); Modified amount
5020399000	6	cutting disc for glass/ceramic 0.6mm Note: a consumable item used for prototyping (used as a disposable disc for use by angle grinder) Specifications: * for ceramic * 0.6mm 3 boxes	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	4,500.00	4,500.00	0.00	GAA (Gulaj); Modified amount
50203210-02	6	Soldering Helping Hand Kit Note: tool to be used for prototyping (used as a prototyping tool to hold components for soldering and joining) Specifications: * Rubber feet to prevent slipping * 6 Flexible 12" Arms 2 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	3,500.00	3,500.00	0.00	GAA (Gulaj); Modified amount
50203990-00	6	3D Printer Flexible Filament Specification: * Compatible with ender 3 pro & CR-6 Max * Black Note: Consumable material to be used for 3D Printing 10 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	25,000.00	25,000.00	0.00	GAA (Gulaj)
50203990-00	6	Bostik Bond-Flex Transparent Silicone Sealant Specifications: * Color: Transparent * Sealing type: Silicone Sealant * Package type: Cartridge * Package size: 300ml Note: Consumable item to be used for prototype (used as a sealing paste to all edge in prototype to stop for all leakage) 10 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	13,500.00	13,500.00	0.00	GAA (Gulaj)
50203210-02	6	Heavy Duty VDE Insulated Long Nose Pliers Specifications: * 6", 8" size * heavy duty Note: tool to be used for prototyping (used as cutting, shaping and twisting tool for prototyping) 2 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	2,000.00	2,000.00	0.00	GAA (Gulaj)
50203210-02	6	Heavy Duty Heat Gun Specifications: * 650°C max * heavy duty Note: tool to be used for prototyping (used as heating tool to shaping and twisting plastic materials for prototyping) 1 pc	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	37,000.00	37,000.00	0.00	GAA (Gulaj)

50207020-01	6	Single Board Computer/Microcomputer 8gb ram kit with psu and case. Specifications: * 8gb ram * with cooling fan case Note: Component to be integrated to the prototype (used a processor of IOT functions for the prototype) 3 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	18,600.00	18,600.00	0.00	GAA (Gulai)
50207020-01	6	HC12 wireless module Specifications: * 1000 meters maximum range * configurable channels Note: Component to be integrated to the prototype (used as a wireless communication interface between microcontrollers) 5 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	3,000.00	3,000.00	0.00	GAA (Gulai)
50207020-01	6	Analog pH Sensor / Meter Kit For microcontroller Specifications: * Measuring Range: 0 – 14PH * Measuring Temperature: 0 – 60 °C Note: Component to be integrated to the prototype (used water quality sensor of the prototype) 3 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	12,000.00	12,000.00	0.00	GAA (Gulai)
50207020-01	6	True rated 24-Volts Switching Power Supply for Prototyping Specifications: * Din rail mount * 220 Volts AC input Note: component to be integrated to the prototype (used as power supply for the PLC microcontroller board) 2 units	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	3,000.00	3,000.00	0.00	GAA (Gulai)
50203990-00	6	M16 Cable Gland Specifications: * IP68 rating ( water and dust proofing ) * Material: Nylon Note: Consumable item to be used for prototype (used as hole cover for wiring perforations) 30 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	2,000.00	2,000.00	0.00	GAA (Gulai)
50203990-00	6	M12 Cable Gland Specifications: * IP68 rating ( water and dust proofing ) * Material: Nylon Note: Consumable item to be used for prototype (used as hole cover for wiring perforations) 30 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	2,000.00	2,000.00	0.00	GAA (Gulai)
50203990-00	6	Flex Cable for Raspberry Pi Camera – 1 meter Specifications: * length: 1 meter * compatible with raspberry pi 4 Note: a consumable item used for prototyping 5 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	1,500.00	1,500.00	0.00	GAA (Gulai)
50203990-00	6	Threaded Straight Adapter PVC Pipe Fitting (1/2" ) Specifications: * 1/2" adapter * adapter type:male threaded adaptor Note: consumable item to be used for prototype 40 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	2,000.00	2,000.00	0.00	GAA (Gulai)
50203990-00	6	Threaded 90° Elbow PVC Pipe Fitting (1/2") Specifications: * 1/2" adapter * adapter type: angled, 90 degrees (threaded elbow) Note: consumable item to be used for prototype 40 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	1,700.00	1,700.00	0.00	GAA (Gulai)
50203990-00	6	100cm 16pin Ribbon Cable Connect Flat Cable For Led Display Panel Specifications: * length: 100cm * number of pins: 8x8 = 16 pin Note: consumable item to be used for prototype 10 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	2,000.00	2,000.00	0.00	GAA (Gulai)
50203990-00	6	40cm 16pin Ribbon Cable Connect Flat Cable For Led Display Panel Specifications: * length: 100cm * number of pins: 8x8 = 16 pin Note: consumable item to be used for prototype 10 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	2,000.00	2,000.00	0.00	GAA (Gulai)
50203990-00	6	Diode 1N4001 10 pack Specifications: * Corrosion Resistant and Terminal * Leads are Readily Solderable Note: consumable item to be used for prototype 10 sets	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	1,300.00	1,300.00	0.00	GAA (Gulai)
50207020-01	6	Analog Signal Isolator Gravity Specification: * Operating Voltage: 5.0V * Response Time: 4 seconds (Typ) Note: component to be integrated to the prototype (used as an signal isolator for sensor module for the prototype) 5 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	12,000.00	12,000.00	0.00	GAA (Gulai)
50207020-01	6	Temperature & Humidity Sensor SHT20 I2C Waterproof Probe Specifications: * Water resistant * With built-in pull-up resistor Note: component to be integrated to the prototype (used as an upgraded sensor module for the prototype) 5 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	11,000.00	11,000.00	0.00	GAA (Gulai)

50207020-01	6	Gas Carbon Dioxide CO2 Analog Sensor Gravity Specifications: * 5V DC * Compatible with Arduino Mega 2560 Note: component to be integrated to the prototype (used as a sensor module for the prototype) 4 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	22,000.00	22,000.00	0.00	GAA (Gulai)
50203990-00	6	slotted PVC wire duct 25mmx25mmx2M Specifications: * Slotted type * With Cover Note: consumable item used for prototyping 16 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	2,500.00	2,500.00	0.00	GAA (Gulai)
50203990-00	6	Flat Cord #16 duplex 30 meter Specifications: * gauge AWG# 16, duplex * heat resistant Note: a consumable item used for prototyping 2 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	5,000.00	5,000.00	0.00	GAA (Gulai)
50203990-00	6	Flat cord #14 duplex 30 meter Specifications: * gauge AWG# 14, duplex * heat resistant Note: consumable item used for prototyping 2 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	2,500.00	2,500.00	0.00	GAA (Gulai)
50203990-00	6	THHN #14 1 roll RED Specifications: * gauge AWG# 14 * color: red Note: consumable item used for prototyping 1 pc	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	6,000.00	6,000.00	0.00	GAA (Gulai)
50203990-00	6	THHN #14 1 roll BLUE Specifications: * gauge AWG# 14 * color: BLUE Note: consumable item used for prototyping 1 pc	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	6,000.00	6,000.00	0.00	GAA (Gulai)
50207020-01	6	Mini Safety Circuit Breaker screw type with cover 2P 10A Specifications: * 10A * DIN rail mount Note: component to be integrated to the prototype (used as power circuit safety feature component ) 3 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	3,000.00	3,000.00	0.00	GAA (Gulai)
50207020-01	6	Mini Safety Circuit Breaker screw type with cover 2P 15A Specifications: * 15A * DIN rail mount Note: component to be integrated to the prototype (used as power circuit safety feature component ) 5 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	3,000.00	3,000.00	0.00	GAA (Gulai)
50207020-01	6	220V AC Heavy-Duty extension socket 4-gang Specifications: * Heavy Duty * 10-15A Note: component to be integrated to the prototype (used as an AC socket for the power adapters to be used for the electronic components of the prototype ) 10 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	5,000.00	5,000.00	0.00	GAA (Gulai)
50203990-00	6	Screw type terminal block for 220v AC 10Amps Specifications: * Heavy Duty * 10A * 4 Pin Note: consumable item used for prototyping 30 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	2,000.00	2,000.00	0.00	GAA (Gulai)
50207020-01	6	slotted angle bar 1.5" x 1.5" - 3ft Specifications: * with rust resistant coating Note: component to be integrated to the prototype (used as prototype reinforcement) 10 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	8,500.00	8,500.00	0.00	GAA (Gulai)
50203990-00	6	Misting Nozzle for Gardening Sprinkle Watering Sprinkler Specifications: * adjustable mist nozzle * plastic * rust resistant Note: consumable items to be used for prototyping 200 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	5,000.00	5,000.00	0.00	GAA (Gulai)
50207020-01	6	DC Power Distribution Board Screw-type Terminal block with built-in 2A fuse protector (9 channel) Specifications: * 9 channel * 2A fuse Note: component to be integrated to the prototype (used as a terminal block with built in circuit protection fuse) 4 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	4,000.00	4,000.00	0.00	GAA (Gulai)
50203990-00	6	Solid-Core Wire Spool 25ft 22AWG Black Specifications: * gauge: 22 AWG * color: black Note: a consumable item used for prototyping (Used as a prototyping color-coded wire for electronic components) 3 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	4,500.00	4,500.00	0.00	GAA (Gulai)



50203990-00	6	Solid-Core Wire Spool 25ft 22AWG Red Specifications: * gauge: 22 AWG * color: red Note: a consumable item used for prototyping (Used as a prototyping color-coded wire for electronic components) 3 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	4,500.00	4,500.00	0.00	GAA (Gulai)
50203990-00	6	Solid-Core Wire Spool 25ft 22AWG Blue Specifications: * gauge: 22 AWG * color: blue Note: a consumable item used for prototyping (Used as a prototyping color-coded wire for electronic components) 3 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	4,500.00	4,500.00	0.00	GAA (Gulai)
50203990-00	6	Solid-Core Wire Spool 25ft 22AWG Yellow Specifications: * gauge: 22 AWG * color: yellow Note: a consumable item used for prototyping (Used as a prototyping color-coded wire for electronic components) 3 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	4,500.00	4,500.00	0.00	GAA (Gulai)
50207020-01	6	Original Microcontroller ATMEGA 2560 Specifications: * ATMEGA 2560 chip * Original, Italy version Note: component to be integrated to the prototype (used as the main microcontroller used for the prototype) 2 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	12,000.00	12,000.00	0.00	GAA (Gulai)
50207020-01	6	256GB microSDXC UHS I Memory Card for Single-board computer Specifications: * 256GB * compatible with raspberry pi Note: component to be integrated to the prototype (used as sd card for single-board-computer used for the prototype) 6 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	16,000.00	16,000.00	0.00	GAA (Gulai)
50203990-00	6	In-line power switch for 2.1mm barrel jack Specifications: * Compatible with DC adapter * 2.1mm Note: consumable item used for prototyping 20 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	6,000.00	6,000.00	0.00	GAA (Gulai)
50207020-01	6	Fullspectrum Growlight for Prototyping Specifications: * 32x32 rgb LED Panel * full spectrum range * can be controlled by arduino /rpi Note: component to be integrated to the prototype (used as the main source of plant lighting in the prototype) 20 units	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	45,000.00	45,000.00	0.00	GAA (Gulai)
50207020-01	6	Blower fan squirrel cage Specifications: * 12 Volts * 0.3 Amps Note: component to be integrated to the prototype (used as an outtake fan for the prototype) 15 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	8,000.00	8,000.00	0.00	GAA (Gulai)
50207020-01	6	USB Camera for single-board-computer Specifications: * BMP 1080P * compatible with raspberry pi 4 * usb Note: component to be integrated to the prototype (used as a camera mounting for the sides of the prototype to be connected to the single board computer) 10 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	50,000.00	50,000.00	0.00	GAA (Gulai)
50207020-01	6	Hydroponics submersible pump Specifications: * 220V / 8W * Flow: 2000 L/h * Height: 1.6 meters Note: component to be integrated to the prototype (will serve as means of water transfer and misting) 3 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	4,500.00	4,500.00	0.00	GAA (Gulai)
50203990-00	6	Grey Plastic Sheet, 1000mm x 500mm x 9mm Specifications: * Material: Plastic * Color: Grey * Dimension: 1000mm x 500mm x 9mm Note: consumable items to be used for prototyping 5 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	12,000.00	12,000.00	0.00	GAA (Gulai)
50203990-00	6	Grey Plastic Sheet, 1000mm x 500mm x 3mm Specifications: * Material: Plastic * Color: Grey * Dimension: 1000mm x 500mm x 3mm Note: consumable items to be used for prototyping 5 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	10,000.00	10,000.00	0.00	GAA (Gulai)
50203990-00	6	Grey Plastic Sheet, 1000mm x 500mm x 6mm Specifications: * Material: Plastic * Color: Grey * Dimension: 1000mm x 500mm x 6mm Note: consumable items to be used for prototyping 5 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	12,000.00	12,000.00	0.00	GAA (Gulai)


50203990-00	6	Threaded female adapter PVC Pipe Fitting (1/2") Specifications: * 1/2" adapter * fitting direction: Straight * Pipe Fitting Connection Type : Threaded Note: consumable items to be used for prototyping 40 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	1,000.00	1,000.00	0.00	GAA (Gulai)
50203990-00	6	Threaded Tee adapter PVC Pipe Fitting (1/2") Specifications: * 1/2" adapter * fitting direction: Straight * Pipe Fitting Connection Type : Threaded Note: consumable items to be used for prototyping 40 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	2,000.00	2,000.00	0.00	GAA (Gulai)
50207020-01	6	USB Multiport extender cable Specification: * usb port 3.0 * 4 usb socket Note: Component to be integrated to the prototype (used as a extender usb port of microcomputer) 3 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	12,500.00	12,500.00	0.00	GAA (Gulai)
50207020-01	6	Arduino Nano Board Specification: *Microcontroller Atmel ATmega328 *Operating Voltage (logic level) 5 V *Digital I/O Pins 14 (of which 6 provide PWM output) *Analog Input Pins 8 *Clock Speed 16 MHz *Dimensions 45mm x 18mm Note: Component to be integrated to the prototype 4 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	2,800.00	2,800.00	0.00	GAA (Gulai)
50207020-01	6	ESP-32 Development Board Specification: *2.4 GHz dual-mode Wi-Fi *Bluetooth chips by TSMC 40nm low power technology *ESP32 ESP-32 ESP-WROOM-32U Development Board *ESP32-DevKitC V4 is a small-sized ESP32-based development board. Note: Component to be integrated to the prototype 4 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	6,000.00	6,000.00	0.00	GAA (Gulai)
50207020-01	6	NRF24L01 PA+LNA Module Specification: *Voltage:3-3.6V *Max output power: +20 dBm *Working current in transmit mode (peak): 115 mA *Working current in receiver mode (peak): 45 mA *Current in mode: 4.2uA *2.4GHZ NRF24L01 Module with PA LNA SMA Antenna 1KM Note: Component to be integrated to the prototype 6 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	4,000.00	4,000.00	0.00	GAA (Gulai)
50207020-01	6	NPK Sensor Specification: *NPK Soil Sensor *12-24V DC *Working Humidity: 5 to 95% (relative humidity), no condensation *Working Temperature: 5 to 45 ° C *Length(not include cable): Approx.11.5cm/4.5in *Width: Approx.4cm/1.6in *Weight: Approx.203g/7.2oz Note: Component to be integrated to the prototype 4 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	22,000.00	22,000.00	0.00	GAA (Gulai)
50207020-01	6	DFRobot Soil Moisture Sensor Analog Capacitive – Corrosion Resistant Specification: *Operating Voltage: 3.3 ~ 5.5 VDC *Output Voltage: 0 ~ 3.0VDC *Interface: PH2.0-3P *Dimension: 98mm * 23mm (3.86in x 0.905in) *Weight: 15gx Note: Component to be integrated to the prototype 4 pcs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	4,000.00	4,000.00	0.00	GAA (Gulai)
50203990-00	6	4.7k ohm resistor Specification: *±5% Tolerance Note: consumable to be used for prototyping 5 packs	CSD	NO	NP-53.9 Small Value Procurement	1st Quarter of 2023	GOP	2,000.00	2,000.00	0.00	GAA (Gulai)
5020101000	6	Roundtrip Airline tickets for participants of the 23rd Philippine Computing Science Congress (PCSC 2023) Estimated Number of passengers: 5 5 lots	CSD	NO	Direct Retail Purchase of Petroleum Fuel, Oil and Lubricant (POL) Products and Airline Tickets	1st Quarter of 2023	GOP	65,000.00	65,000.00	0.00	GIA (ALaM)
5021305002	6	Preventive Maintenance Services for Generator Sets (DOST-ASTI) 1 lot	FAD	NO	NP-53.9 Small Value Procurement	1st - 4th Quarter of 2023	GOP	350,000.00	350,000.00	0.00	GAA; Modified mode of procurement
5021305002	6	Preventive Maintenance Services for Generator Sets (EPDC) 1 lot	FAD	NO	NP-53.9 Small Value Procurement	1st - 4th Quarter of 2023	GOP	280,000.00	280,000.00	0.00	GAA; Modified mode of procurement
5021305002	6	Preventive Maintenance Services for Airconditioning Units (DOST-ASTI) 1 lot	FAD	NO	NP-53.9 Small Value Procurement	1st - 4th Quarter of 2023	GOP	250,000.00	250,000.00	0.00	GAA; Modified mode of procurement
5021305002	6	Preventive Maintenance Services for Airconditioning Units (EPDC) 1 lot	FAD	NO	NP-53.9 Small Value Procurement	1st - 4th Quarter of 2023	GOP	300,000.00	300,000.00	0.00	GAA; Modified mode of procurement
5020101000	6	Roundtrip Airline tickets for Official Travel from MNL-DVO-MNL Date: March 13-15, 2023 for the 1st AI Pinas Research and Development (R&D) Conference and Workshop (AI Conference 2023) 1 lot	CSD	NO	Direct Retail Purchase of Petroleum Fuel, Oil and Lubricant (POL) Products and Airline Tickets	1st Quarter of 2023	GOP	9,655.00	9,655.00	0.00	GIA (ALaM)
5020101000	6	Roundtrip Airline tickets for Official Travel from MNL-DVO-MNL Date: March 13-15, 2023 for the 1st AI Pinas Research and Development (R&D) Conference and Workshop (AI Conference 2023) 1 lot	CSD	NO	Direct Retail Purchase of Petroleum Fuel, Oil and Lubricant (POL) Products and Airline Tickets	1st Quarter of 2023	GOP	9,655.00	9,655.00	0.00	GIA (ALaM)
5020101000	6	Roundtrip Airline tickets for Official Travel from MNL-DVO-MNL Date: March 13-15, 2023 for the 1st AI Pinas Research and Development (R&D) Conference and Workshop (AI Conference 2023) 1 lot	CSD	NO	Direct Retail Purchase of Petroleum Fuel, Oil and Lubricant (POL) Products and Airline Tickets	1st Quarter of 2023	GOP	9,655.00	9,655.00	0.00	GIA (ALaM)


5020101000	6	Roundtrip Airline tickets for Official Travel from MNL-DVO-MNL Date: March 13-15, 2023 for the 1st AI Pinas Research and Development (R&D) Conference and Workshop (AI Conference 2023) 1 lot	CSD	NO	Direct Retail Purchase of Petroleum Fuel, Oil and Lubricant (POL) Products and Airline Tickets	1st Quarter of 2023	GOP	9,655.00	9,655.00	0.00	GIA (ALaM)
5020101000	6	Roundtrip Airline tickets for Official Travel from MNL-DVO-MNL Date: March 13-15, 2023 for the 1st AI Pinas Research and Development (R&D) Conference and Workshop (AI Conference 2023) 1 lot	CSD	NO	Direct Retail Purchase of Petroleum Fuel, Oil and Lubricant (POL) Products and Airline Tickets	1st Quarter of 2023	GOP	9,655.00	9,655.00	0.00	GIA (ALaM)
5020101000	6	Roundtrip Airline tickets for Official Travel from MNL-DVO-MNL Date: March 13-15, 2023 for the 1st AI Pinas Research and Development (R&D) Conference and Workshop (AI Conference 2023) 1 lot	CSD	NO	Direct Retail Purchase of Petroleum Fuel, Oil and Lubricant (POL) Products and Airline Tickets	1st Quarter of 2023	GOP	8,020.00	8,020.00	0.00	GIA (ALaM)
5020503000	6	Local Transport – UP South Road -Cebu 2Mbps from Apr 1 - Dec 31, 2023 9 mos.	SSED	YES	Renewal of WETI	2nd - 4th Quarter of 2023	GOP	208,378.53	208,378.53	0.00	GAA (InNOVATE); Modified amount, mode of procurement
5020503000	6	Local Transport – UP Iloilo 5Mbps from Apr 1 - Dec 31, 2023 9 mos.	SSED	YES	Renewal of WETI	2nd - 4th Quarter of 2023	GOP	361,439.10	361,439.10	0.00	GAA (InNOVATE); Modified amount, mode of procurement
5020503000	6	Local Transport – UP Tacloban 5Mbps from Apr 1 - Dec 31, 2023 9 mos.	SSED	YES	Renewal of WETI	2nd - 4th Quarter of 2023	GOP	267,088.14	267,088.14	0.00	GAA (InNOVATE); Modified amount, mode of procurement
5020503000	6	Local Transport – UP Koronadal 2Mbps from Apr 1 - Dec 31, 2023 9 mos.	SSED	YES	Renewal of WETI	2nd - 4th Quarter of 2023	GOP	465,379.20	465,379.20	0.00	GAA (InNOVATE); Modified amount, mode of procurement
5029901000	6	Tarpaulins - Full color printing - Dimensions: 8x8 ft - Event backdrop 3 pcs	OD	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	4,500.00	4,500.00	0.00	GAA (TLO); Modified description, quantity, amount
5029901000	6	Pull-up Banners Tarpaulin Full color printing Dimensions: 3x4 ft 3 pcs	OD	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	3,600.00	3,600.00	0.00	GAA (TLO); Modified quantity, amount
50211030-02	6	Consultancy Service for Freedom-to-Operate Report 3 lots	OD	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	150,000.00	150,000.00	0.00	GAA (TLO); Modified quantity, amount
50299050-01	6	Lease of Venue - Baguio City - Regional Stakeholders' Event - May 2023 - Use of Facilities and food for 2 nights and 2 days - 10 rooms, Day 1: 70 pax, Day 2: 20 pax 1 lot	OD	NO	NP-53.10 Lease of Real Property	2nd Quarter of 2023	GOP	194,800.00	194,800.00	0.00	GAA (TLO)
5020399000	6	Marketing Collaterals - Polo Shirt with Trademarks - CVC Honeycomb - Color: Navy Blue Body, White Collar - Qty: 100 pcs @ Php 660.00 inclusive of program fees for logos and additional fee for big sizes - With embroidered DOST-ASTI logo on left chest 1 lot	OD	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	60,600.00	60,600.00	0.00	GAA (TLO)
50202010-02	6	Catering Services (Packed Meals) - June 2023 Training and Certification of Prospective Licensee - 15 pax for 5 days @ Php 590/pax (AM&PM Snacks, Lunch) 1 lot	OD	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	44,250.00	44,250.00	0.00	GAA (TLO)
50299050-03	6	Rent - Motor Vehicle - For Regional Stakeholders' Event May 2023 - Vehicle good for twenty (20) pax - ASTI - Baguio City - ASTI 1 lot	OD	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	70,000.00	70,000.00	0.00	GAA (TLO)
50215010-01	6	IP Related Fees (Trademark Filing fee) - Php 1200.00 per lot - with 1% Legal Research Fund 16 lots	OD	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	19,392.00	19,392.00	0.00	GAA (TLO)
50215010-01	6	IP Related Fees (Trademark Publication for Opposition Fee) - Php 900.00 per lot - with 1% Legal Research Fund 8 lots	OD	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	7,272.00	7,272.00	0.00	GAA (TLO)
50215010-01	6	IP Related Fees (Trademark Maintenance Fee - 3rd Year DAU) - Php 900.00 per lot - with 1% Legal Research Fund 6 lots	OD	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	5,460.00	5,460.00	0.00	GAA (TLO)
5021199000	6	Fabrication of Mobile Robot Platform 1 lot	RDD	NO	NP-53.9 Small Value Procurement	2nd Quarter of 2023	GOP	660,000.00	660,000.00	0.00	(GIA) ROAMER
<b>TOTAL</b>								<b>6,830,266.64</b>	<b>6,830,266.64</b>	<b>0.00</b>	

Prepared and Consolidated By:


  
Digitally signed by  
KATHERINE B. RAMOS  
Head, Bids and Awards Committee (BAC) Secretariat


Recommending Approval:


  
PHILIP A. MARTINEZ  
BAC Member


  
Digitally signed by  
MERYL REGINE L. ALGODON  
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