

Department of Science and Technology
Advanced Science and Technology Institute
C.P. Garcia Ave., U.P. Technopark, U.P. Campus, Diliman, Quezon City 1101

Annual Procurement Plan for 2018
APP-2018-NCSE-012 (SUPPLEMENTAL)

Code	Procurement Program/Activity/Project	PMO/ End- User	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	
OFFICE OF THE DIRECTOR												
ALTERNATIVE METHODS OF PROCUREMENT												
I. NP - AGENCY-TO-AGENCY												
50211990 00 Other Professional Services	1 Drug Testing for ASTI Regular Staff Conducted by National Reference Laboratory (CSC Requirement) Testing will be at DOST-ASTI office (maximum of 90 pax)	OD- Manton	NP-53.5 Agency-to-Agency		2nd Quarter of 2018		GOP	21,500.00	21,500.00	0.00		
II. NP - SMALL VALUE PROCUREMENT												
A. ABOVE Php50,000.00												
50299030 00 Representation Expenses	1 Catering Service - One (1) Day Forum at World Trade Center Metro Manila (WTCMM) for the CY2018 NSTW Date: 20 July 2018 Venue: World Trade Center Metro Manila (WTCMM) Pasay City Guaranteed: 50 pax, max. 120 pax Heavy AM & PM Snacks, buffet lunch Supplier must have accreditation at the WTCMM	OD - Mangahas	NP-53.9 Small Value Procurement		3rd Quarter of 2018		GOP	144,000.00	144,000.00	0.00	NSTW 2018	
50299020 00 Printing and Publication Expenses	2 Printing - Publication of DOST-ASTI Newsletter 2 issues - Vol. 1 issue 1 - Vol. 1 issue 2 300 copies per issue Progress payment per issue delivered	OD - Mangahas	NP-53.9 Small Value Procurement		3rd Quarter of 2018		GOP	200,000.00	200,000.00	0.00		
50299020 00 Printing and Publication Expenses	3 Printing - Publication of DOST-ASTI 2017 Annual Report Pre-Production Preparation, Printing, and Delivery of 300 copies of the Annual Report and 150 copies of Annual Report Envelope	OD - Mangahas	NP-53.9 Small Value Procurement		3rd Quarter of 2018		GOP	200,000.00	200,000.00	0.00		
50299020 00 Printing and Publication Expenses	4 Printing - Organizational Folder Brochure with Project Flyer Inserts A4 size folder brochure 500 pieces A5 project flyer inserts 9 designs x 1,000 pieces = 9,000 pieces	OD - Mangahas	NP-53.9 Small Value Procurement		3rd Quarter of 2018		GOP	130,000.00	130,000.00	0.00		
50299020 00 Printing and Publication Expenses	5 Printing - Diwata 1 Origami Brochure Dimension: approx. 213.36mm x 152.40mm (8.4in x 6in) Cardboard or thick paper Die cut	OD - Mangahas	NP-53.9 Small Value Procurement		3rd Quarter of 2018		GOP	75,000.00	75,000.00	0.00		
50211990 00 Other Professional Services	6 Design, Production, and Setup of DOST-ASTI Exhibit and Interactive Diorama for the CY2018 NSTW Celebration	OD - Mangahas	NP-53.9 Small Value Procurement		3rd Quarter of 2018		GOP	800,000.00	800,000.00	0.00	NSTW 2018	
50203990 00 Other Supplies and Materials Expenses	7 T-shirt with Custom Print - Promotional Token for Diwata 2 Gildan 100% 2 colors	OD - Mangahas	NP-53.9 Small Value Procurement		3rd Quarter of 2018		GOP	69,000.00	69,000.00	0.00		
50203990 00 Other Supplies and Materials Expenses	8 USB Flash Drives, Customized - Production of Promotional Tokens for various DOST-ASTI events Various designs totalling 500 pieces 16GB USB Keychain Custom Shape - DOST-ASTI logo - Diwata 2 - MAYA 1 - PEDRO Satellite Dish 8GB Rubber Bracelet with DOST-ASTI logo	OD - Mangahas	NP-53.9 Small Value Procurement		3rd Quarter of 2018		GOP	200,000.00	200,000.00	0.00		
50299070 01 ICT Software Subscription	9 Software License - Subscription - Graphic Design Software Suite 12 month license subscription inclusive of applications for: - Image editing and compositing - Vector graphics and illustration - Page design and layout for print and digital publishing - Audio/Video (AV) and video effects production and editing - Text, image, audio, and video web posting platform - Design and development of responsive websites	OD - Mangahas	NP-53.9 Small Value Procurement		2nd Quarter of 2018		GOP	115,000.00	115,000.00	0.00		
50203990 00 Other Supplies and Materials Expenses	10 Pan with Custom Print - Production of Promotional Token for DOST-ASTI	OD - Mangahas	NP-53.9 Small Value Procurement		3rd Quarter of 2018		GOP	60,000.00	60,000.00	0.00		
B. Php50,000.00 AND BELOW												

50203010 02 Office Supplies Expenses	1	Printing - DOST-AST Notepad A5 size	OD - Mangahas	NP-53.9 Small Value Procurement	3rd Quarter of 2018	GOP	50,000.00	50,000.00	0.00	
50299050 01 Rents - Building and Other Structures	2	Room Rental for Temporary Storage of Equipment for CY2018 NSTW	OD - Mangahas	NP-53.9 Small Value Procurement	3rd Quarter of 2018	GOP	40,000.00	40,000.00	0.00	NSTW 2018
50299050 03 Rents - Motor Vehicles	3	Vehicle Rental - CY2018 NSTW Celebration DOST - ASTI Staff Transportation Passenger van, 8 days rental duration	OD - Mangahas	NP-53.9 Small Value Procurement	3rd Quarter of 2018	GOP	40,000.00	40,000.00	0.00	NSTW 2018
50203990 00 Other Supplies and Materials Expenses	4	Polo Shirt with Custom Print - DOST-ASTI 100% cotton Sizing: XS-3XLS 2 tone color, front and back design	OD - Mangahas	NP-53.9 Small Value Procurement	3rd Quarter of 2018	GOP	17,500.00	17,500.00	0.00	
50299070 01 ICT Software Subscription	5	Software License - Subscription - Portable Document Format (PDF) Editing Software) 12 month license subscription Feature and Capabilities: - Create PDFs from any application that prints - View, edit and interact with PDF content - Digitally sign, certify, and verify PDFs	OD - Mangahas	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	12,500.00	12,500.00	0.00	
50213050 03 Repairs and Maintenance - ICT Equipment	6	Battery - Replacement for MacBook Pro Inclusive of Labor	OD - Mangahas	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	6,000.00	6,000.00	0.00	
50213050 03 Repairs and Maintenance - ICT Equipment	7	Trackpad - Replacement for MacBook Pro Inclusive of Labor	OD - Mangahas	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	5,000.00	5,000.00	0.00	
50213050 03 Repairs and Maintenance - ICT Equipment	8	Repair of ASTI Toshiba Laptop Portege Z930 - supplier should be an authorized service center of Toshiba laptops - replacement of defective parts (battery, assay casing, etc)	OD - Jucco	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	22,000.00	22,000.00	0.00	
FINANCE AND ADMINISTRATIVE DIVISION										
ALTERNATIVE METHODS OF PROCUREMENT										
I. NP - SMALL VALUE PROCUREMENT										
A. PhP50,000.00 AND BELOW										
50203010 02 Office Supplies Expenses	1	Laminated Label Tape size: 12mm length: 8m white tape, waterproof, strong adhesion	FAD - Gilla	NP-53.9 Small Value Procurement	3rd Quarter of 2018	GOP	1,500.00	1,500.00	0.00	
SOLUTIONS AND SERVICES ENGINEERING DIVISION										
PUBLIC BIDDING										
50604050 14 Technical and Scientific Equipment	1	Satellite Modem System Demodulator and TT&C Modem	SSED - Retamar	Public Bidding	3rd Quarter of 2018	GOP	11,200,000.00	0.00	11,200,000.00	PEDRO
50203990 00 Other Supplies and Materials Expenses	2	Ultrasonic Sensors Optimum Range at least 30.5cm - 10m (12in. - 33ft.) - Max Range at least 15.2 meters (50 feet) - Case Material 303 stainless steel - Compatible with ASTI-developed data logger	SSED - Retamar	Public Bidding	3rd Quarter of 2018	GOP	311,500.00	311,500.00	0.00	PEDRO
50203990 00 Other Supplies and Materials Expenses	3	Ultrasonic Sensors Optimum Range at least 30.5cm - 10m (12in. - 33ft.) - Max Range at least 15.2 meters (50 feet) - Case Material 303 stainless steel	SSED - Retamar	Public Bidding	3rd Quarter of 2018	GOP	2,225,000.00	2,225,000.00	0.00	STATIONS
ALTERNATIVE METHODS OF PROCUREMENT										
I. NP - AGENCY-TO-AGENCY										
50215030 00 Insurance Expenses	1	ASTI GRS Insurance Renewal Insurance renewal for PEDRO Receiving Equipment	SSED - Retamar	NP-53.5 Agency-to-Agency	2nd Quarter of 2018	GOP	1,500,000.00	1,500,000.00	0.00	PEDRO
50215030 00 Insurance Expenses	2	Davao GRS Insurance Insurance renewal for PEDRO Receiving Equipment	SSED - Retamar	NP-53.5 Agency-to-Agency	3rd Quarter of 2018	GOP	1,500,000.00	1,500,000.00	0.00	PEDRO
II. NP - SMALL VALUE PROCUREMENT										
A. ABOVE PhP50,000.00										
50604050 03 ICT Equipment	1	IP Conference Phone - can be connected to a telephone line - include 2 units HDMI to USB 3.0 video capture video	SSED - Retamar	NP-53.9 Small Value Procurement	3rd Quarter of 2018	GOP	60,000.00	0.00	60,000.00	PEDRO
50211990 00 Other Professional Services	2	PEDRO Satellite Tracking Diorama Design and fabrication of transportable GRS Control Room Diorama with Mini-Satellites	SSED - Retamar	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	350,000.00	350,000.00	0.00	PEDRO
50604050 02 Office Equipment	3	PEDRO Informational Tri-Panel Graphics and Display Stand Design and fabrication of transportable Tri-pannel Stand with Video Support	SSED - Retamar	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	310,000.00	0.00	310,000.00	PEDRO
50203990 00 Other Supplies and Materials Expenses	4	Radar Waterlevel Sensor Pulsed radar, open air water level monitoring	SSED - Retamar	NP-53.9 Small Value Procurement	3rd Quarter of 2018	GOP	510,000.00	510,000.00	0.00	PEDRO

50211990 00 Other Professional Services	5	Structured Cabling Services for the GRS Structured cabling services for the GRS, includes supplies and professional services	SSED - Retamar	NP-53.9 Small Value Procurement	3rd Quarter of 2018	GOP	300,000.00	300,000.00	0.00	PEDRO
B. PhP50,000.00 AND BELOW										
50299030 00 Representation Expenses	1	Launching of Maysa-1 to space Tentative date/time: June 16, 2018 5pm Tentative venue: ASTI Training Room 35 pax guaranteed, 60 pax maximum Buffet dinner	SSED - Retamar	NP-53.9 Small Value Procurement	3rd Quarter of 2018	GOP	24,000.00	24,000.00	0.00	PEDRO
RESEARCH AND DEVELOPMENT DIVISION										
ALTERNATIVE METHODS OF PROCUREMENT										
L NP - SMALL VALUE PROCUREMENT										
A. ABOVE PhP50,000.00										
50211990 00 Other Professional Services	1	Design, Fabrication, and Installation of Non-permanent Wind Turbine Posts and Elevated Platform for Solar Panels	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	200,000.00	200,000.00	0.00	STREETLIGHT
50211990 00 Other Professional Services	2	Fabrication of Power Module Board and Supply of Components (c/o EPDC)	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	100,000.00	100,000.00	0.00	STREETLIGHT
50203210 03 Semi-Expendable ICT Equipment	3	Storage Disk 1.1 Interface: 512n SAS 1.2 Capacity: 4TB 1.3 RPM: 7200 RPM 1.4 Cache: 128MB 1.5: Average Latency: 4.16ms 1.6: Form Factor: 3.5" 1.7: Height (maximum): 26.10mm 1.8: Width (maximum): 101.85mm 1.7: Length (maximum): 147.00mm	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	104,300.00	104,300.00	0.00	
B. PhP50,000.00 AND BELOW										
50203990 00 Other Supplies and Materials Expenses	1	Raspberry PI 3+ - Latest version - Processor: Broadcom BCM2837B0, Cortex-A53 64-bit SoC @ 1.4GHz - Memory: 1GB LPDDR2 SDRAM - Connectivity: - 2.4GHz and 5GHz IEEE 802.11.b/g/n/ac wireless LAN, Bluetooth 4.2. BLE - Gigabit Ethernet over USB 2.0 (maximum throughput 300Mbps) - 4 x USB 2.0 ports - Access: Extended 40-pin GPIO header - Video & Sound: - 1 x full size HDMI - MIPI DSI display port - MIPI CSI camera port - 4 pole stereo output and composite video port - Multimedia: H.264, MPEG-4 decode (1080p30); H.264 encode (1080p30); OpenGL ES 1.1, 2.0 graphics - SD card support: Micro SD format for loading operating system and data storage - Input power: - 5V/2.5A DC via micro USB connector - 5V DC via GPIO header - Power over Ethernet (PoE)-enabled (requires separate PoE HAT) - Environment: Operating temperature, 0-50°C - Low-Level Peripherals: - 27x GPIO - UART - I2C bus - SPI bus with two chip selects - +3.3V - +5V - Ground - Dimension: 85mm x 56mm x 17mm - Supports Raspbian, Windows 10 IoT Core, OpenELEC, OSMC, Pidora, Arch Linux, RISC OS and More	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	9,000.00	9,000.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	2	Raspberry PI Case - Easy snap-fit assembly - Range of case display/access options: fully closed, sides away, birds eye view - Cut-outs of all connection points - Plastic LED light protector - microSD card cut-out - Stick on rubber feet for case stability	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	4,000.00	4,000.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	3	Power Supply for Raspberry PI 3+ - High-quality power supply - 1.5m cable length - microB USB connection - Cable strain relief - 100-240v input, 5.1v output, 2.5A	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	2,500.00	2,500.00	0.00	STREETLIGHT

50203990 00 Other Supplies and Materials Expenses	4	Heatbank for Raspberry Pi 3+ <ul style="list-style-type: none"> - A set of 2 heat sinks - Self adhesive thermal layer for easy application - Thermal resistance of 27°C/W - Copper heat sink: 13mm x 12mm x 5mm - Blue aluminum heat sink: 8.75mm x 8.75mm x 12mm 	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	2,000.00	2,000.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	5	Lora/GPS Hat <ul style="list-style-type: none"> - Compatible with Raspberry Pi - Frequency Band: 433 MHz - Lora Spec: <ul style="list-style-type: none"> 168 dB maximum link budget. +20 dBm - 100 mW constant RF output vs. +14 dBm high efficiency PA. Programmable bit rate up to 300 kbps. High sensitivity, down to -148 dBm. Bullet-proof front end: IIP3 = -12.5 dBm. Excellent blocking immunity. Low RX current of 10.3 mA, 200 nA register retention. Fully integrated synthesizer with a resolution of 61 Hz. FSK, GFSK, MSK, GMSK, LoRaTM and OOK modulation. Built-in bit synchronizer for clock recovery. Preamble detection. 127 dB Dynamic Range RSSI. Automatic RF Sense and CAD with ultra-fast AFC. Packet engine up to 256 bytes with CRC. Built-in temperature sensor and low battery indicator. - GPS Spec: <ul style="list-style-type: none"> Power Acquisition: 25mA, Power Tracking: 20mA. Compliant with GPS, SBAS. Programmable bit rate up to 300 kbps. Serial Interfaces UART: Adjustable 4800-115200 bps. Default: 9600bps. Update rate: 1Hz (Default), up to 10Hz. Protocols: NMEA 0183, PMTK. Horizontal Position Accuracy: Autonomous <2.5 m CEP. TTFB @ -130dBm with EASY™: Cold Start <15s, Warm Start <5s, Hot start <1s; TTFB @ -130dBm, without EASY™: Cold Start <35s, Warm Start <30s, Hot Start <1s. Timing Accuracy: 1PPS out 10ns, Reacquisition Time <1s. Velocity Accuracy Without aid <0.1m/s, Acceleration Accuracy Without aid 0.1m/s². Sensitivity Acquisition -148dBm, Tracking -165dBm, Reacquisition -160dBm. Dynamic Performance Altitude Max: 18000m, Maximum Velocity Max: 515m/s, Maximum Acceleration 4G. L1 Band Receiver (1575.42MHz) Channel 22 (Tracking) /66 (Acquisition). - Package Includes: <ul style="list-style-type: none"> 1 x Lora / GPS HAT 4 x Brass cylinders 4 x Screws 4 x Nuts 1 x Glue Stick Antenna (433 MHz) 	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	10,500.00	10,500.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	6	LoraWAN Module <ul style="list-style-type: none"> - Protocol: LoRaWAN 1.0, Class A - LoRaWAN - ready - Frequency: 433 MHz ISM frequency band - TX Power: up to +14 dBm - Sensitivity: as good as -138 dBm - Range: >15 km at suburban and >5 km at urban area. Typically, each base station covers some km. Check the LoRaWAN Network in your area. - Chipset consumption: 38.9 mA - Radio Bit Rate: from 250 to 5470 bps - Receiver: purchase your own base station or use networks from LoRaWAN operators - Includes 433 MHz Antenna 	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	21,000.00	21,000.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	7	Lora Module <ul style="list-style-type: none"> - 433 MHz version - Packet radio with ready-to-go Arduino libraries - Uses the amateur or license-free ISM band (ITU "Europe" license-free ISM or ITU "American" amateur with limitations) - Use a simple wire antenna or spot for uFL or SMA radio connector - SX1276 LoRa based module with SPI interface - +5 to +20 dBm up to 100 mW Power Output Capability (power output selectable in software) - ~100mA peak during +20dBm transmit, ~30mA during active radio listening. - Range of approx. 2Km, depending on obstructions, frequency, antenna and power output 	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	12,500.00	12,500.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	8	Multiprotocol Radio Shield <ul style="list-style-type: none"> - Connect any Arduino Wireless module. Some examples: XBee 802.15.4/XBee ZigBee, RFID, NFC, Bluetooth, Bluetooth Pro, Wifi, GPRS, 3G, LoRa. - Connect the new Industrial Protocol modules as RS-485, RS-232 and CAN Bus. - Combine two communications protocols (RS-485 with RFID, CAN Bus with Bluetooth, etc). 	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	10,500.00	10,500.00	0.00	STREETLIGHT

50203990 00 Other Supplies and Materials Expenses	9	Connection Bridge - Connection bridge for Raspberry Pi to Arduino Shields - Compatible with Raspberry Pi (Model B+), the Raspberry Pi 2 Model B and the new Raspberry Pi 3 Model B - Compatible with arduPi library - Conversion functions that can control in the same way as in Arduino all the I/O interfaces: I2C, SPI, UART, analog, digital, in Raspberry Pi	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	12,000.00	12,000.00	0.00	STREETLIGHT
50203010 01 ICT Office Supplies	10	Micro SD Card - At least Class 10 - At least 16GB - Genuine Branded	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	2,500.00	2,500.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	11	Flexible Wire Protection Tube - Working temperature: -30 -100°C - Color: black - Length: at least 15m/50feet - Diameter: at least 1/2inch	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	10,000.00	10,000.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	12	Junction Box - Weather-proof/IP65 - Dimension: 150x150x70mm - With cover	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	2,000.00	2,000.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	13	Two Core Solar Cable - Photo Voltaic (PV) Solar DC Cable Double Insulated - Excellent resistance to UV,water,ozone,fluids,salt,general weathering - Excellent resistance to abrasion - Halogen free, flame retardant, low toxicity - Excellent flexibility and stripping performance - High current carrying capacity - Type: PV-2 x 6.0 mm ² - Cross section (mm ²): 8.0 - Conductor resistance (Ω/Km): 3.52 - Rated voltage (VAC/VDC): 1000/1800 - Rated current (A): 70 - Length: at least 100m	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	14,000.00	14,000.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	14	Cable Protector Ramp - 2 channels - Dimension: at least 100 x 25 x 4.5 cm	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	21,000.00	21,000.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	15	Electrical PVC Pipe - For electrical use - Size: at least 1" - Length: at least 3 meters - Outside diameter: 32mm	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	2,500.00	2,500.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	16	micro SD Card Shield - Compatible with Arduino - Communication with microSD cards is achieved over an SPI interface - The SCK, DI, and DO pins of the microSD socket are broken out to the ATmega168/328's standard SPI pins (digital 11-13), while the CS pin is broken out to Arduino's D8 pin	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	18,000.00	18,000.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	17	LED Light Ring - IR - Compatible with Raspberry Pi Camera - Brightness can be controlled digitally by PWM or analogue - Infrared LEDs - Flash or Steady Light - Attaches to existing RPi camera module - Additional mounting points - LED Voltage: 5V - Switch On Voltage: 3.3V - Max Current: 600mA - Current per LED: 50mA - Wavelength per LED: 940nm	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	6,500.00	6,500.00	0.00	STREETLIGHT

50203210 02 Semi-Expendable - Office Equipment	18	Desktop Monitor - Resolution: 1920x1080 - Refresh rate: 60Hz - Response time: 1 ms - Panel: TN - Backlight: WLED - Aspect Ratio: 16:9 - Brightness (typical): 250 cd/m² - Contrast (dynamic): 1000:1 - Contrast (static): 1000:1 - Pixel Pitch (H) (V): 0.2715 - Diagonal (inch): 23.6 inch - Active Screen Area (HxV): 521.28x293.32 mm - Viewing Angle (CR10): 170/160 - Display Colors: 16.7 Million - Panel finishing: Matt - OSD languages: EN, FR, ES, PT, DE, IT, NL, SE, FI, PL, CZ, RU, KR, CN (T), CN (S), JP - Signal input: HDMI 1.4 x 1, VGA, DVI - Audio output: Headphone out (3.5mm) - Built-in Speakers: 2 W x 2 - VGA Cable: 1,2 - HDMI Cable: 1,5 - Swivel: 0° - Tilt: -5/+15° - Vesa Wallmount: 100x100 - Powersupply: Internal - Powersource: 100 - 240V 50/60Hz - Power Consumption On: 18.5 watt - Power Consumption Off: 0.19 watt - Power Consumption Standby: 0.37 watt - Product dimensions incl base mm x mm x mm: 551.4x400.4x221 mm - Carton dimensions mm x mm x mm: 620x435x127 mm - Net weight excl package kg: 3.58 Kg - Gross weight incl package kg: 5.21 Kg - Regulations: TUV GS TUV Bauart Gest. Rohs compliant CE	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	10,000.00	10,000.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	19	Electrical Wall Receptacle - NEMA 5-15 - Industrial grade - Dual Receptacle - For 240V/15A - Includes screws and cover plate	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	2,500.00	2,500.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	20	RJ-45 Wall Receptacle - Dual RJ-45 CAT6 Receptacle Jack Volition - Includes screws and cover plate for double ports	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	5,000.00	5,000.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	21	Air Quality Sensor Modules - High-precision PM2.5 particle sensor - Module uses at least PMS7003 - Zero false alarm rate - Real-time response - Correct data - Minimum distinguishable particle diameter: 0.3 micron - High anti-interference performance - Optional direction of air inlet and outlet - Slim - Includes interface board and cable	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	9,000.00	9,000.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	22	USB Compute Stick - Movidius 600MHz Myriad-2 SoC with 12 x 128-bit VLIW SHAVE vector processors + 2MB of 400Gbps transfer-rate on-chip memory - Supports FP16, FP32 and integer operations with 8-, 16- and 32-bit accuracy - All data and power provided over a single USB 3.0 port on a host PC - Real-time, on-device inference without Cloud connectivity - Quickly deploy existing CNN models or uniquely trained networks - Multiple Movidius Sticks can be networked to the host PC via a suitable hub - Dimensions: 72.5 x 27 x 14mm	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	13,000.00	13,000.00	0.00	STREETLIGHT
50203990 00 Other Supplies and Materials Expenses	23	Lipo Bag - Material: Fireproof PVC+ Nonwoven fabric+fireproof glass fiber fabric - Fireproof,high temperature flame retardant - Color: Silver - Size: 240*210*50MM	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	3,500.00	3,500.00	0.00	UAV
50203990 00 Other Supplies and Materials Expenses	24	16 AWG Wire (Red) - Length: at least 10M - Color: Red - Gauge: 16 AWG - Insulator: Silicone - Nominal Voltage: 600V - Temperature Range: -60 to 200 degrees Celcius	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	4,000.00	4,000.00	0.00	UAV
50203990 00 Other Supplies and Materials Expenses	25	16 AWG Wire (Black) - Length: at least 10M - Color: Black - Gauge: 16 AWG - Insulator: Silicone - Nominal Voltage: 600V - Temperature Range: -60 to 200 degrees Celcius	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	4,000.00	4,000.00	0.00	UAV

50203990 00 Other Supplies and Materials Expenses	26	20 AWG Wires (Red) - Length: at least 10M - Color: Red - Gauge: 20 AWG - Insulator: Silicone - Nominal Voltage: 600V - Temperature Range: -60 to 200 degrees Celsius	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	2,500.00	2,500.00	0.00	UAV
50203990 00 Other Supplies and Materials Expenses	27	20 AWG Wires (Black) - Length: at least 10M - Color: Black - Gauge: 20 AWG - Insulator: Silicone - Nominal Voltage: 600V - Temperature Range: -60 to 200 degrees Celsius	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	2,500.00	2,500.00	0.00	UAV
50203990 00 Other Supplies and Materials Expenses	28	50mm Shrink Tube - Color: Black - Internal diameter : 2" / 50.0 mm (the diameter of columniform but not after compressed) - Fully shrunk internal diameter : 17.0 mm - Total wall thickness : 2.80 ± 0.25 - Wall thickness of adhesive : 0.70 ± 0.15 - Length : 50CM / 1.64FT - Shrinkage Ratio : 3 : 1 (will shrink to 1/3 its supplied diameter) - Material : Polyolefin - Minimum Shrinkage Temp : +70°C - Full Shrinkage Temp : +110°C maximum - Operating Temperature : -55°C to +125°C - Tensile strength : 10.4 Mpa - Dielectric strength : 15 kV/mm - Manufacture specification : ISO9001 - Flammability : Flame Retardant - Approvals : UL Approved - Cutting method : Scissors or sharp knife	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	4,000.00	4,000.00	0.00	UAV
50203990 00 Other Supplies and Materials Expenses	29	25mm Shrink Tube - UL VW-1 flame retardancy - High strength and resilience - Quick shrinkage and stable performance. - Convenient to use and can be contracted by oven and hot air guns. - Commercial grade for electrical, electronic, automotive and general industrial markets - General purpose polyolefin heat shrink, with a 2:1 shrinkage rate this tube shrinks to half of its diameter when heated. - Widely applications: wiring harness, electronics, motors, electrical appliances, lighting, mechanical circuits, connectors, solder joint, insulation protection of inductor, metal tube, anti-corrosion wire and other products. - Material: EVA - Color: Black - Shrinkage Ratio: 2:1 - Tensile Strength: 14Mpa - Dielectric Strength: 20kv/mm - Length: 10m / 393.70" (33ft) - Minimum Shrinkage Temperature: 70°C / 158°F - Full Recovery Temperature: 100°C / 212°F - Operating Temperature: -55°C to 125°C / -67°F to 257°F - Diameter: 25mm	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	4,800.00	4,800.00	0.00	UAV
50203990 00 Other Supplies and Materials Expenses	30	15mm Shrink Tube - UL VW-1 flame retardancy - High strength and resilience - Quick shrinkage and stable performance. - Convenient to use and can be contracted by oven and hot air guns. - Commercial grade for electrical, electronic, automotive and general industrial markets - General purpose polyolefin heat shrink, with a 2:1 shrinkage rate this tube shrinks to half of its diameter when heated. - Widely applications: wiring harness, electronics, motors, electrical appliances, lighting, mechanical circuits, connectors, solder joint, insulation protection of inductor, metal tube, anti-corrosion wire and other products. - Material: EVA - Color: Black - Shrinkage Ratio: 2:1 - Tensile Strength: 14Mpa - Dielectric Strength: 20kv/mm - Length: 10m / 393.70" (33ft) - Minimum Shrinkage Temperature: 70°C / 158°F - Full Recovery Temperature: 100°C / 212°F - Operating Temperature: -55°C to 125°C / -67°F to 257°F - Diameter: 15mm	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	2,800.00	2,800.00	0.00	UAV

<p>50203990 00 Other Supplies and Materials Expenses</p>	<p>31</p> <p>Shrink Tube Set</p> <ul style="list-style-type: none"> - Big collection of heat shrink tubing 8 Specifications, 5 colors. - Supplied internal diameter: 1.5mm, 2mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm - Fully shrunk internal diameter: 0.75mm, 1mm, 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm - Color: Black, Yellow, Green, Red, Blue - Quantity: 1 Pack(530pcs) - Material: Polyolefin - Shrinkage Ratio: 2:1 (will maximum shrink to 1/2 its supplied diameter) - Minimum Shrinkage Temp: ≥84°C - Full Shrinkage Temp: ≥120°C - Operating Temperature: -55°C to +125°C - Tensile strength: 10.4 Mpa - Dielectric strength: 15 KV/mm - Manufacture specification: ISO9001 - Flammability: Flame Retardant - Approvals: UL Approved - Supplied format (round or flat): Product is supplied flat - Cutting method: Scissors or sharp knife - Package includes: (Quantity+Diameter+Length+Color) 80pcs x 1.5 x 45mm Yellow, 80pcs x 2.0 x 45mm Blue, 80pcs x 2.0 x 45mm Black, 80pcs x 3.0 x 45mm Green, 50pcs x 4.0 x 45mm Red, 50pcs x 4.0 x 45mm Black, 30pcs x 5.0 x 45mm Black, 20pcs x 6.0 x 45mm Yellow, 20pcs x 8.0 x 45mm Red, 20pcs x 10.0 x 45mm Green, 20pcs x 10.0 x 45mm Blue, 20pcs x 10.0 x 45mm Black 	<p>RDD</p>	<p>NP-53.9 Small Value Procurement</p>	<p>2nd Quarter of 2018</p>	<p>GOP</p>	<p>2,400.00</p>	<p>2,400.00</p>	<p>0.00</p>	<p>UAV</p>
<p>50203210 02 Semi-Expendable - Office Equipment</p>	<p>32</p> <p>Desktop Monitor</p> <ul style="list-style-type: none"> - Resolution: 1920x1080 - Refresh rate: 60Hz - Response time: 1 ms - Panel: TN - Backlight: WLED - Aspect Ratio: 16:9 - Brightness (typical): 250 cd/m² - Contrast (dynamic): 1000:1 - Contrast (static): 1000:1 - Pixel Pitch (H) (V): 0.2715 - Diagonal (inch): 23.6 inch - Active Screen Area (HxW): 521.28x293.32 mm - Viewing Angle (CRD): 170/160 - Display Colors: 16.7 Million - Panel finishing: Matt - OSD languages: EN, FR, ES, PT, DE, IT, NL, SE, FI, PL, CZ, RU, KR, CN (T), CN (S), JP - Signal input: HDMI 1.4 x 1, VGA, DVI - Audio output: Headphone out (3.5mm) - Built-in Speakers: 2 W x 2 - VGA Cable: 1.2 - HDMI Cable: 1.5 - Swivel: 0° - Tilt: -5/+15° - Vesa Wallmount: 100x100 - Powersupply: Internal - Powersource: 100 - 240V 50/60Hz - Power Consumption On: 18.5 watt - Power Consumption Off: 0.19 watt - Power Consumption Standby: 0.37 watt - Product dimensions incl base mm x mm x mm: 551.4x400.4x221 mm - Carton dimensions mm x mm x mm: 620x435x127 mm - Net weight excl package kg: 3.58 Kg - Gross weight incl package kg: 5.21 Kg - Regulations: TUV GS TUV Beaurt Gost Rohs compliant CE 	<p>RDD</p>	<p>NP-53.9 Small Value Procurement</p>	<p>2nd Quarter of 2018</p>	<p>GOP</p>	<p>30,000.00</p>	<p>30,000.00</p>	<p>0.00</p>	<p>UAV</p>
<p>50203010 01 ICT Office Supplies</p>	<p>33</p> <p>Wireless Mouse</p> <ul style="list-style-type: none"> - Same click feel and over 90% noise reduction on the click sound - Feet made of high performance material and a rubber wheel for quiet gliding and scrolling - Designed with curved lines that provide a place to rest your thumb and improve control - Quiet Mark Certification - Mouse (height x width x depth): 105.4 mm x 67.9 mm x 38.4 mm - Weight: 91.0 g - Nano receiver (height x width x depth): 14.4 mm x 16.7 mm x 6.1 mm - Weight: 1.8 g - Connection Type: 2.4GHz wireless connection - Wireless range: 10 meters - Connect / Power: Yes, on/off switch - Battery Details: 1 x AA - Battery Life (not rechargeable): 24 months - DPI (Min/Max): 1000+ - Sensor technology: Yes, 2D, mechanical - Sensor resolution: 1000 dpi - Scroll Wheel: Yes - Number of buttons: 3 - Standard and Special Buttons: Middle click - Package Contents: Mouse, Nano receiver, 1 AA battery (pre-installed), User documentation, Warranty Information 	<p>RDD</p>	<p>NP-53.9 Small Value Procurement</p>	<p>2nd Quarter of 2018</p>	<p>GOP</p>	<p>2,000.00</p>	<p>2,000.00</p>	<p>0.00</p>	<p>UAV</p>

50203990 00 Other Supplies and Materials Expenses	34	Test Probe - Color: Red and black - Material: PVC wire - Current: up to 20A - Voltage: up to 1000V - Length: 1M - Temperature: 0 degree ~ 40degree - Used for: All Digital Multimeter - Brand New and High Quality. - Probes suitable for IC pins, LED and small components. - Includes: 2x20A Probe Test Lead (Pair), 2xAlligator Clips (Pair)	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	1,000.00	1,000.00	0.00	UAV
50203990 00 Other Supplies and Materials Expenses	35	HDMI Cable - HDMI plug to HDMI plug leads - Gold-plated connectors for highest signal transfer rate and resistance in corrosion. - Length: 1 meter approx.	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	750.00	750.00	0.00	UAV
50203990 00 Other Supplies and Materials Expenses	36	Electrical Cable - At least 50 meters - Solid - 12/3 (12 AWG /3 Conductors) - RoHS Compliant - Moisture Resistant - Color-coded insulation	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	5,000.00	5,000.00	0.00	UAV
50203990 00 Other Supplies and Materials Expenses	37	Electrical Plug - NEMA 5-15 - Screw-type ground pin - Industrial grade - For 240V/15A	RDD	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	900.00	900.00	0.00	UAV

COMPUTER SOFTWARE DIVISION

PUBLIC BIDDING

50299070 01 ICT Software Subscription	1	Mathematical Computing Environment (MATLAB and toolboxes)	CSD	Public Bidding	3rd Quarter of 2018	GOP	1,703,122.40	1,703,122.40	0.00	
50604050 03 ICT Equipment	2	Laptops Processor Type: at least Core™ i7 1.8 GHz or higher Memory: at least 8 GB of RAM Storage: At least 1 Solid State Drive Capacity 128 GB and 1 Hard Disk Drive 1 TB Screen Size: 15.6" Full HD (1920 x 1080) resolution ComfyView Graphics Memory Capacity: At least 4 GB GDDR5 Network & Communication Wireless LAN Standard: IEEE 802.11ac Ethernet Technology: Gigabit Ethernet Built-in Devices Microphone: Yes Finger Print Reader: No Number of Speakers: 2 Sound Mode: Stereo Interfaces/Ports 2x USB 3.0 1x USB 2.0 Network (RJ-45) HDMI Output 1x USB 3.1 Type-C Operating System: at least Windows 10 64-bit with license key Input Devices TouchPad backlit keyboard Battery Information: at least 3-cell Lithium Ion (Li-Ion) 4805 mAh Maximum Battery Run Time: 6 Hour Maximum Power Supply Wattage: 135 W Warranty: at least 2 years parts and services warranty	CSD	Public Bidding	3rd Quarter of 2018	GOP	1,656,000.00	0.00	1,656,000.00	DOE PHASE 3

KNOWLEDGE MANAGEMENT DIVISION

ALTERNATIVE METHODS OF PROCUREMENT

I		NP - SMALL VALUE PROCUREMENT								
A.		PhP50,000.00 AND BELOW								
50203010 02 Office Supplies Expenses	1	3-Ring Binder Hard cover, round type with lamination and insert Size: A4 documents Thickness: 2" Color: Black	KMD - Rubillos	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	4,000.00	4,000.00	0.00	
50203010 02 Office Supplies Expenses	2	Clear Sheet Protector Heavy duty reinforced binding edge for A4 documents 10 sheets per pack	KMD - Rubillos	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	1,000.00	1,000.00	0.00	
50203010 01 ICT Office Supplies	3	Micro USB to HDMI adapter connects mobile high-definition link (MHL) compatible smartphone to an HDMI-compatible external monitor	KMD - Rubillos	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	1,800.00	1,800.00	0.00	
50203010 01 ICT Office Supplies	4	USB C to HDMI / VGA adapter Input Connector: USB C Output Connectors: HDMI (19 pin) female, DVI-I (29 pin) female, VGA (15 pin) female	KMD - Rubillos	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	1,410.00	1,410.00	0.00	


50203010 02 Office Supplies Expenses	5	Post-It 120 Divider tabs 1" In dispenser colored, for page folder catalogue File Page Marker -int	KMD - Rubillos	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	6,000.00	6,000.00	0.00	
50203010 02 Office Supplies Expenses	6	A4 Storage Horizontal Office binding folder punched file clip	KMD - Rubillos	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	16,000.00	16,000.00	0.00	
50203220 01 Smo-Expendable - Furniture and Fixtures	7	Magnetic Whiteboard 18 x 24, wall type	KMD - Rubillos	NP-53.9 Small Value Procurement	2nd Quarter of 2018	GOP	1,000.00	1,000.00	0.00	
TOTAL							22,325,572.40	9,999,572.40	13,226,000.00	

Prepared and Consolidated By:


KATHERINE B. RAMOS
 Head, Bids and Awards Committee Secretariat

Recommending Approval:


PEDRITO B. MANAHAN
 Chairperson, Bids and Awards Committee - 1


PAUL JOHN M. SERRANO
 Chairperson, Bids and Awards Committee - 2

Approved By:


JOEL JOSEPH S. MARCIANO, JR., Ph.D.
 Acting Director