

Republic of the Philippines

DEPARTMENT OF SCIENCE AND TECHNOLOGY ADVANCED SCIENCE AND TECHNOLOGY INSTITUTE



PURCHASE ORDER

ASTI – FM 03-17 REV 4 / 09 June 2025

Supplier:	ACE ELECTRONIC TECHNOLOGY, INC.	PO No.:	25-07-144
Address:	12 Timog Ave., Brgy. Laging Handa, Quezon City	PO Date:	July 08, 2025
TIN:	005-423-495-000	Mode of Procurement:	NP-53.9 Small Value Procurement

Gentleman:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:

ASTI Bldg., C.P. Garcia Ave., U.P. Technology

Park Complex, U.P. Campus, Diliman, Quezon

City 1101

Delivery Term:

Sixty (60) calendar

days upon issuance of

NTP

Date of Delivery:

Payment Term:

Government Terms

Warranty Term:

Stock / Property No.	Unit	Description	Quantity	Unit Cost	Amount
		1. GENERAL OVERVIEW 1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of Five (5) Units of Sector LoRa Antenna. 1.2. The Approved Budget for the Contract (ABC) is inclusive of government taxes and all applicable charges. 1.3. Will be part of the prototype by the COMPASS Project.			
1	Unit	2. TECHNICAL SPECIFICATIONS 2.1. Frequency, range: 862 – 870 MHz 2.2. Gain: 8.9 dBi 2.3. Front to Back: -18 dB 2.43 dB Horizontal Beamwidth: 90.2° 2.5. Polarization: Vertical 2.6. Nominal Input Impedance: 50 Ohms 2.7. Connector: "N" 2.8. Input Return Loss: -20 dB	5	P14,488.00	P72,440.00
		3. WARRANTY AND AFTERSALES SUPPORT 3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice			

Postal Address : ASTI Bldg., U.P. Technology Park Complex, CP Garcia Ave., Diliman, Quezon City 1101

Website Email

: www.asti.dost.gov.ph : info@asti.dost.gov.ph Tel No. : +632 8249-8500 +632 8426-9755

		L C DOCT ACTI			
		from DOST-ASTI.			
		3.2. The end-user must be able to request			
		technical support by phone, email, or			
		through a website.			
		3.3. The Sector LoRa Antenna must have at			
		least six (6) months of warranty from the			
		time of delivery which covers defects in			
		materials and workmanship. Warranty			
		service shall commence from the date of			
		end-user acceptance.			
		4. DELIVERY AND PAYMENT TERMS			
		4.1. The goods must be delivered sixty (60)			
		calendar days upon issuance of Notice to			
		Proceed (NTP).			
		4.2. Full payment will only be processed			
		once the item is completely delivered,			
A STORY		inspected, and accepted by the end-user.		APPROPRIES	
		No payment shall be made for items not			
		delivered under this contract			
		(Please see attached quotation.)			
		(1)			
		45 in 1 Sensor Module with Kit Box			
		1. GENERAL OVERVIEW			
		1.1. DOST-ASTI is seeking qualified and			
		competent bidders for the Supply and			
		Delivery of One (1) Unit of 45 in 1 Sensor			
		Module with Kit Box.			
		1.2. The ABC is inclusive of government			
		taxes and all applicable charges.			
		1.3. Will be part of the prototype by the			
		COMPASS Project.			
	Linia	2. TECHNICAL SPECIFICATIONS	1	P2,785.00	₱2,785.00
2	Unit			12,700.00	
		2.1. Must be compatible with Arduino			ICT RED
		2.2. Supply Voltage: 3-5V			
		2.3. Operating Temperature: -40°-+85°			
		3. WARRANTY AND AFTERSALES SUPPORT			
		3.1. Any repair or replacement service			
		must be successfully done within thirty			
	15.6	(30) calendar days upon receipt of notice			
在 禁止的		from DOST-ASTI.			
		3.2. The end-user must be able to request			
		technical support by phone, email, or			
		through a website.			
	113	3.3. The Sensor Module must have at least			STORES NEW
		six (6) months of warranty from the time		FIRESTER	
		of delivery which covers defects in		NEW TEN	夏·安宁的诗音 (1998年)
		materials and workmanship. Warranty			
			THE RESIDENCE		

		service shall commence from the date of end-user acceptance.			
		4. DELIVERY AND PAYMENT TERMS			
		4.1. The goods must be delivered sixty (60) days upon issuance of NTP.			
		4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user.			
		No payment shall be made for items not delivered under this contract.			
		(Please see attached quotation.)			
		5-RX- Channel Coherent SDR			
		1. GENERAL OVERVIEW			
		1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of One (1) Unit of 5-RX-Channel Coherent SDR.			
		1.2. The ABC is inclusive of government taxes and all applicable charges.1.3. Will be part of the prototype by the COMPASS Project.			
3	Unit	2. TECHNICAL SPECIFICATIONS	1	₱42,878.00	₱42,878.00
		2.1. Five-channel, coherent-capable RTL- SDR, all clocked to a single local oscillator 2.2. Tuning Range: 24 MHz to 1766 Mhz 2.3. Antenna Input Connector: SMA			ICT RED
		Female 2.4. Interface:			
		Female			
		Female 2.4. Interface: 2.4.1 Data: USB-C			
		Female 2.4. Interface: 2.4.1 Data: USB-C 2.4.2 Power: USB-C 3. WARRANTY AND AFTERSALES SUPPORT 3.1. Any repair or replacement service must be successfully done within thirty			
		Female 2.4. Interface: 2.4.1 Data: USB-C 2.4.2 Power: USB-C 3. WARRANTY AND AFTERSALES SUPPORT 3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI. 3.2. The end-user must be able to request			
		Female 2.4. Interface: 2.4.1 Data: USB-C 2.4.2 Power: USB-C 3. WARRANTY AND AFTERSALES SUPPORT 3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI. 3.2. The end-user must be able to request technical support by phone, email, or through a website. 3.3. The 5-RX-Channel Coherent SDR must			
		Female 2.4. Interface: 2.4.1 Data: USB-C 2.4.2 Power: USB-C 3. WARRANTY AND AFTERSALES SUPPORT 3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI. 3.2. The end-user must be able to request technical support by phone, email, or through a website.			

		4. DELIVERY AND PAYMENT TERMS 4.1. The goods must be delivered sixty (60) days upon issuance of NTP.			
		4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.			
		(Please see attached quotation.)			
		5 Magnetic Whip Antennas for Direction Finding			
		1. GENERAL OVERVIEW			
		1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of One (1) Unit of 5 Magnetic Whip Antennas for Direction Finding. 1.2. The ABC is inclusive of government taxes and all applicable charges. 1.3. Will be part of the prototype by the COMPASS Project.			
4	Unit	2. TECHNICAL SPECIFICATIONS	1	₱17,850.00	₱17,850.00
		2.1. 5x SMA whip antenna usable from 100 MHz to 1 GHz 2.2. 5x Magnetic Mount Bases 2.3. 5x SMA Tees 2.4. Cable Interface: SMA to SMA			ICT PED
		3. WARRANTY AND AFTERSALES SUPPORT			
		3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI. 3.2. The end-user must be able to request technical support by phone, email, or through a website. 3.3. The 5 Magnetic Whip Antennas for Direction Finding must have at least six (6) months of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.			
		4. DELIVERY AND PAYMENT TERMS			
		4.1. The goods must be delivered sixty (60) days upon issuance of NTP.			

	4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract. (Please see attached quotation.)			
	Handheld Meshtastic device with Keyboard 1. GENERAL OVERVIEW 1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Units of Handheld Meshtastic Device with Keyboard. 1.2. The ABC is inclusive of government taxes and all applicable charges. 1.3. Will be part of the prototype by the COMPASS Project.			
Unit	2. TECHNICAL SPECIFICATIONS 2.1. Frequency: 868 MHz 2.2. MCU: Dual core 2.3. Wireless Connectivity: 2.4 GHz Wi-Fi & Bluetooth 5 (LE) 2.4. Development: Must be compatible with Arduino 2.5. Flash: 16MB 2.6. PSRAM: 8MB 2.7. Battery ADC PIN: IOO4 2.8. Onboard functions: GPS, TF Card, Microphone, Speaker	2	₽8,785.00	P17,570.00
	3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI. 3.2. The end-user must be able to request technical support by phone, email, or through a website. 3.3. The Handheld Meshtastic device with Keyboard must have at least six (6) months of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.			
	4. DELIVERY AND PAYMENT TERMS			
	4.1. The goods must be delivered sixty (60)			

		days upon issuance of NTP.			
		4.2. Full payment will only be processed	SIGNAL		
		once the item is completely delivered,			
		inspected, and accepted by the end-user. No payment shall be made for items not			
		delivered under this contract.			
		(Please see attached quotation.)			
		Single Board Computer with Small TFT			
		screen			
		1. GENERAL OVERVIEW			
		1.1. DOST-ASTI is seeking qualified and			
		competent bidders for the Supply and			
		Delivery of One (1) Unit of Single Board			
		Computer with Small TFT screen. 1.2. The ABC is inclusive of government			
		taxes and all applicable charges.			
		1.3. Will be part of the prototype by the			
		COMPASS Project.			
6	Unit	2. TECHNICAL SPECIFICATIONS	1	P12,388.00	₱12,388.00
					ICT RED
		2.1. Display: 4' 720X720 high resolution			
	200	TET display.			
		2.2. Interface: 3 USB2.0 Ports, I2C			
		2.3. Charging Ampere: 1A charging ampere 2.4. TF card Slot			
		2.4. IF Card Slot			
		3. WARRANTY AND AFTERSALES SUPPORT			
		3.1. Any repair or replacement service			
		must be successfully done within thirty			
		(30) calendar days upon receipt of notice			
		from DOST-ASTI.			
		3.2. The end-user must be able to request			
	245	technical support by phone, email, or			
		through a website.			
		3.3. The Single Board Computer with Small TFT screen must have at least six (6)			
		months of warranty from the time of			
		delivery which covers defects in materials			
		and workmanship. Warranty service shall			
		commence from the date of end-user			
		acceptance.			
		4. DELIVERY AND PAYMENT TERMS			
		4.1. The goods must be delivered sixty (60)			
		days upon issuance of NTP.			
	135	4.2. Full payment will only be processed			
	93349	once the item is completely delivered,			
	100	inspected, and accepted by the end-user.			

		No payment shall be made for items not delivered under this contract.			
		(Please see attached quotation.)			
		Single Board Computer (4 GB Ram, Quad Core 64 bit SOC)			
		1. GENERAL OVERVIEW			
		1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of Five (5) units of Single Board Computer (4 GB Ram, Quad Core 64-bit SOC).			
		1.2. The ABC is inclusive of government taxes and all applicable charges. 1.3. Will be part of the prototype by the			
7	Unit	COMPASS Project.	5	₱5,678.00	P28,390.00
	June	2. TECHNICAL SPECIFICATIONS			ICT RED
		2.1. CPU: Quad-core 2.2. RAM: 4 GB 2.3. Wireless Interface: 2.4 GHz and 5.0 GHz IEEE 802.11ac wireless, Bluetooth 5.0, BLE 2.4. USB Ports: 2 USB 3.0 ports; 2 USB 2.0 ports. 2.5. GPIO Pins: 40 Pin GPIO Headers 2.6. Display Ports: 2 × micro-HDMI ports (up to 4kp60 supported) 2.7. External Storage: Micro-SD card slot for loading operating system and data storage 3. WARRANTY AND AFTERSALES SUPPORT			
		3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI. 3.2. The end-user must be able to request technical support by phone, email, or through a website. 3.3. The Single Board Computer (4 GB Ram, Quad Core 64-bit SOC) must have at least six (6) months of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.			
		4. DELIVERY AND PAYMENT TERMS			
		4.1. The goods must be delivered sixty (60)			

		days upon issuance of NTP. 4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract. (Please see attached quotation.)			
		1. GENERAL OVERVIEW 1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Units of GNSS Receiver Breakout Board. 1.2. The ABC is inclusive of government taxes and all applicable charges. 1.3. Will be part of the prototype by the COMPASS Project.			
8	Unit	2. TECHNICAL SPECIFICATIONS 2.1. GNSS Signal: GPS, GLONASS, Galileo, BeiDou, QZSS 2.2. GNSS Bands: B1I, B2I, E1B/C, E5b, L1C/A, L1OF, L2C, L2OF 2.3. Positioning Accuracy: 2.3.1. 2.5m without RTK 2.3.2. 0:010m with RTK 2.4. Interface: USB, UART 2.5. Navigation Update Rate 2.5.1. PVT: (Basic location over UBX binary protocol) - 25Hz 2.5.2. RAW: 25Hz 2.5.3. RTK: 20Hz 2.6. Antenna Connection Type: SMA Female	2	₱24,888.00	P49,776.00 ICT RED
		3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI. 3.2. The end-user must be able to request technical support by phone, email, or through a website. 3.3. The GNSS Receiver Breakout Board must have at least six (6) months of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.			

		4. DELIVERY AND PAYMENT TERMS 4.1. The goods must be delivered sixty (60) days upon issuance of NTP. 4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract. (Please see attached quotation.)			
		Handheld Portable Computer with WiFi			
		and 4G			
		1. GENERAL OVERVIEW			
		1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of One (1) Unit of Handheld Portable Computer with WiFi and 4G. 1.2. The ABC is inclusive of government taxes and all applicable charges. 1.3. Will be part of the prototype by the COMPASS Project.			
9	Unit		1	₱28,788.00	₱28,788.00
		2. TECHNICAL SPECIFICATIONS			ICT RED
		2.1. Input Interface: QWERTY backlit keyboard			
		2.2. With adapter for external computing module to the mainboard			
		2.3. Wi-Fi gain antenna for external computing module			
		2.4. Standard HD 720p 5.0-inch IPS screen			
		3. WARRANTY AND AFTERSALES SUPPORT			
		3.1. Any repair or replacement service			
		must be successfully done within thirty (30) calendar days upon receipt of notice			
		from DOST-ASTI. 3.2. The end-user must be able to request			
	190	technical support by phone, email, or through a website.			
		3.3. The Handheld Portable Computer with Wi-Fi and 4G must have at least six (6)			
		months of warranty from the time of			
		delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.			
		4. DELIVERY AND PAYMENT TERMS			

	 4.1. The goods must be delivered sixty (60) days upon issuance of NTP. 4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract. (Please see attached quotation.) 			
			TOTAL:	₱272,865.00
(Total Amount in Words)			ındred Seventy 1 lundred Sixty Fiv	wo Thousand Eight Pesos Only
specified above, a	is inclusive of taxes and other fees or charges. In case of a penalty of one-tenth (1/10) of one percent for every day ive amount of liquidated damages reaches ten percent (* ate the contract, without prejudice to other courses of acti	of delay sha 10%) of the a	III be imposed on mount of the con	the undelivered item/s. tract, DOST-ASTI may

and in accordance with the provisions of the latest implementing rules and regulations of RA 9184.

Conform	Conforme:		ours,	
		FRAN	juind	
	(Signature over Printed Name of Supplier)	Director, DOST-ASTI		
	(Date)			
Fund Cluster:	0)	ORS / BURS	No.:02101/012025-07-000529	
		ORS / BURS	Date: JVILY 09, 2025	
Funds Available:	Php 272, 865.00	Amount:	₱ <i>272</i> ,865.00	
	GAY CONCEPCION S. BUGAGAO			
	Accountant III			



Republic of the Philippines

DEPARTMENT OF SCIENCE AND TECHNOLOGY ADVANCED SCIENCE AND TECHNOLOGY INSTITUTE



08 July 2025

NOTICE TO PROCEED ALTERNATIVE MODE OF PROCUREMENT

Ms. MARIBELLE UY
General Manager ACE ELECTRONIC T
ACE ELECTRONIC TECHNOLOGY, INC.
12 Timog Ave., Brgy. Laging Handa
Quezon City

Dear Ms. Uy,

This Notice to Proceed is hereby issued for the following contract details:

Contract Name

Purchase Request No.
Purchase / Work Order No.
Total Contract Price (inclusive of taxes, import duties and all other charges or fees)
Total Contract Price in Words

Two Hundred Seventy Two Thousand Eight Hundred Sixty Five Pesos

Upon issuance of this Notice, your company, **ACE ELECTRONIC TECHNOLOGY**, **INC.** is hereby directed to commence the delivery of items and/or performance of services stipulated in the said Purchase Order which shall become due and demandable in accordance with the delivery schedule stipulated therein.

Please acknowledge receipt and acceptance of this Notice by signing in the space provided below. There are two (2) copies of this document; you may keep one copy and return the other to the Bids and Awards Committee (BAC) Secretariat of the Advanced Science and Technology Institute. Should you have any questions or clarifications, you may reach us at bacsec@asti.dost.gov.ph.

Respectfully, Pligitally FRANZ A. DE LEON, Ph.D. Digitally Jeffrey A. Aborot Director		jā.
DATE OF ISSUANCE:	RECEIVED BY:	
JUL 14 2025	Signature over Printed Name	
	Date and Time	

Postal Address

: ASTI Bldg. UP Technology Park Complex

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