



Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
ADVANCED SCIENCE AND TECHNOLOGY INSTITUTE



PURCHASE ORDER

ASTI-FM 03-17
 REV 3 / 10 October 2023

Supplier:	ACE ELECTRONIC TECHNOLOGY, INC.	PO No.:	24-04-069
Address:	12 Timog Avenue, Barangay Laging Handa, Quezon City	PO Date:	April 19, 2024
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:	Thirty (30) 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	Set	Handheld Ground Control Station 1. GENERAL OVERVIEW 1.1. DOST-ASTI is seeking qualified and competent bidders for the SUPPLY AND DELIVERY OF ONE (1) SET OF HANDHELD GROUND CONTROL STATION to be used in the research and various testing phases under the STRIIDER project. 1.2. The ABC includes all applicable government taxes and services charges. 2. TECHNICAL SPECIFICATIONS 2.1. Maximum transmission range: 15 km (unobstructed, free of interference) 2.2. Channels: 2.2.1. 16 physical 2.2.2. 16 communication 2.3. Remote controller: 2.3.1. Monitor: 7-inch HD and high brightness LC touchscreen 2.3.2. System: Android 9.0 OS, 4G RAM, 64G ROM 2.3.3. Battery capacity and type: 10,200 mAh 74. V 2S Li-ion, 75 Wh 2.3.4. Charging: 2.3.4.1. Protocol: PD 30W 2.3.4.2. Time: 3.5 hours (PD 30W) 2.3.5. Battery life: 10 hours 2.3.6. Antenna gain: 2.3.6.1. Omni: 5 dBi 2.3.6.2. Long range: 11 dBi 2.3.6.3. Lollipop: 5 dBi (optional) 2.3.7. Interface and ports: 2.3.7.1. Video output: Standard HDMI 2.3.7.2. External device: USB-A 2.3.7.3. Charging: Type-C 2.3.7.4. Firmware upgrade: Type-C 2.3.7.5. File transfer: Type-C / USB-A 2.3.7.6. Mobile network: SIM card slot 2.3.7.7. External storage: TF card slot / USB-A	1	P58,850.00	P58,850.00

Postal Address : ASTI Bldg., U.P. Technology Park Complex,
 CP Garcia Ave., Diliman, Quezon City 1101
 Website : www.asti.dost.gov.ph
 Email : info@asti.dost.gov.ph

Tel No. : +632 8249-8500
 +632 8426-9755

2.3.7.8. Communication port: LAN (Ethernet)
2.3.7.9. RX signal input / output: Bottom audio port

2.3.8. Waterproof level: IP4X

2.4. Air unit:

2.4.1. Signal output:

2.4.1.1. 16 channels of SBUS
2.4.1.2. 5 channels of PWM

2.4.2. Interface and ports:

2.4.2.1. S.Bus RC signal output: SBUS (GH1.25 3-pin)
2.4.2.2. Datalink (to FC): UART (GH1.25 4-pin)
2.4.2.3. PWM Channel: 1 to 5: PWM (GH1.25 6-pin)
2.4.2.4. Video input / network communication: LAN (GH1.25 8-pin)
2.4.2.5. Firmware upgrade: Type-C

2.4.3. Antenna gain:

2.4.3.1. Omni: 5 dBi
2.4.3.2. Lollipop: 5 dBi (optional)

2.4.4. Working voltage:

2.4.4.1. Air unit: 3S ~ 6S / 12.6 ~ 25.2 V
2.4.4.2. Power module: 16.8 ~ 75.6 V

2.4.5. Power consumption:

2.4.5.1. Air unit:

2.4.5.1.1. Average: 2.8 W
2.4.5.1.2. Summit: 12W

2.4.5.2. Air unit + power module:

2.4.5.2.1. Average: 3.2 W
2.4.5.2.2. Summit: 12 W

2.5. Air unit HDMI converter:

2.5.1. Video:

2.5.1.1. Input: Micro HDMI
2.5.1.2. Output: Ethernet
2.5.1.3. Recording resolution:

2.5.1.3.1. 1080p (1920 x 1080) @ 30 fps
2.5.1.3.2. 720p (1080 x 720) @ 30 fps

2.5.1.4. Storage bitrate: 12 Mbps

2.5.2. Working voltage: 12 V

2.5.3. Power consumption: 3 W

2.5.4. Format:

2.5.4.1. File storage: FAT32
2.5.4.2. Video recording: H265

2.5.5. Supported TF/SD card type: MicroSD class10, less than 32GB

3. PACKAGE INCLUSION

3.1. Ground unit
3.2. Air unit
3.3. Air HDMI input converter

4. WARRANTY

4.1. Must have at least six (6) months of warranty from the time of delivery which covers defects in materials.
4.2. Warranty service shall commence from the date of end-user acceptance.
4.3. Any replacement service must be successfully performed within fifteen (15) calendar days.

5. DELIVERY AND PAYMENT TERMS

5.1. The goods must be delivered within thirty (30) calendar days upon issuance of NTP.
5.2. Full payment will only be given once the item is completely delivered, inspected, and accepted by the End-user.
5.3. No payment shall be made for the supplies and materials not yet delivered under this contract.

(Please see attached quotation.)


2	Piece	<p>Sensor - Camera with Single-axis Gimbal</p> <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the SUPPLY AND DELIVERY OF ONE (1) PC OF CAMERA WITH SINGLE-AXIS GIMBAL to be used in the research and various testing phases under the STRIIDER project.</p> <p>1.2. The ABC includes all applicable government taxes and services charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Port:</p> <p>2.1.1. Video output: Ethernet</p> <p>2.1.2. Control signal input: S. Bus, PWM, Ethernet UDP</p> <p>2.2. Working voltage: 12 V</p> <p>2.3. Power consumption:</p> <p>2.3.1. Average: 2 W</p> <p>2.3.2. Summit: 12 W</p> <p>2.4. Gimbal:</p> <p>2.4.1. Controllable pitch angle: -90 degrees Celsius ~ 25 degrees Celsius</p> <p>2.5. Camera:</p> <p>2.5.1. FOV: Horizontal 160 degrees</p> <p>2.5.2. Image sensor: 1/2.7 inch, 2 MP effective resolution</p> <p>2.6. Protection: IP65</p> <p>2.7. Equipped with ultra-wide angle FOV distortion correction</p> <p>2.8. With upside down mode</p> <p>2.9. With full HD FPV</p> <p>3. WARRANTY</p> <p>3.1. Must have at least six (6) months of warranty from the time of delivery which covers defects in materials.</p> <p>3.2. Warranty service shall commence from the date of end-user acceptance.</p> <p>3.3. Any replacement service must be successfully performed within fifteen (15) calendar days.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. The goods must be delivered within thirty (30) calendar days upon issuance of NTP.</p> <p>4.2. Full payment will only be given once the item is completely delivered, inspected, and accepted by the End-user.</p> <p>4.3. No payment shall be made for the supplies and materials not yet delivered under this contract.</p> <p>(Please see attached quotation.)</p>	1	P9,488.00	P9,488.00
			TOTAL:	P68,338.00	
(Total Amount in Words)			Sixty-Eight Thousand Three Hundred Thirty-Eight Pesos Only		

206

The contract price is inclusive of taxes and other fees or charges. In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed on the undelivered item/s. Once the cumulative amount of liquidated damages reaches ten percent (10%) of the amount of the contract, DOST-ASTI may rescind or terminate the contract, without prejudice to other courses of action and remedies available under the circumstances and in accordance with the provisions of the latest implementing rules and regulations of RA 9184.

Conforme:

Very Truly Yours,




FRANZ A. DE LEON, Ph.D. *B. De Leon*

Digitally signed
by Bayani
Benjamin H. Lara

Director, DOST-ASTI

(Signature over Printed Name of Supplier)

(Date)

Fund Cluster:	<u>01</u>	ORS / BURS No.:	<u>0101101-2024-04-000281</u>
		ORS / BURS Date:	<u>APRIL 22, 2024</u>
Funds Available:	<u>Php 68,338.00</u>	Amount:	<u>₱ 68,338.00</u>
 GAY CONCEPCION S. BUGAGAO Accountant III			



19 April 2024

NOTICE TO PROCEED
ALTERNATIVE MODE OF PROCUREMENT

Ms. MARIBELLE S. UY
 General Manager
ACE ELECTRONIC TECHNOLOGY, INC.
 12 Timog Avenue, Barangay Laging Handa
 Quezon City

Dear Ms. Uy,

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

	Contract Name	:	Supply and Delivery of One (1) Set Handheld Ground Control Station and One (1) Piece Sensor - Camera with Single-axis Gimbal
	Purchase Request No.	:	GAA-24-03-18820
	Purchase / Work Order No.	:	24-04-069
	Total Contract Price	:	P68,338.00
(inclusive of taxes, import duties and all other charges or fees)			
	Total Contract Price in Words	:	Sixty-Eight Thousand Three Hundred Thirty-Eight 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 bac-sec@asti.dost.gov.ph.

Respectfully,

FRANZ A. DE LEON, Ph.D.
 Director

Digitally signed
 by Franz A. De Leon

DATE OF ISSUANCE:

April 23, 2024

RECEIVED BY:

 Signature over Printed Name

 Date and Time