



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.:	25-04-058
Address:	12 Timog Avenue, Barangay Laging Handa Quezon City	PO Date:	April 07, 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: 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	Lot	<b>PCB Fabrication and Assembly</b>  1. GENERAL OVERVIEW 1.1. DOST-ASTI is seeking qualified and competent bidders for the FABRICATION OF ONE (1) LOT OF COMMAND AND DATA HANDLING (C&DH) BASEBOARD EM2 which will be used for Metbuoy+ prototyping. 1.2. The Approved Budget for the Contract (ABC) includes all applicable government taxes and services charges. 1.3. Detailed specs based on actual manufacturing files from the end-user shall be observed. 1.4. Will be part of the prototype under the Metbuoy+ project.  2. TECHNICAL SPECIFICATIONS 2.1. PCB Fabrication Only: 2.1.1. Quantity: Five (5) pcs 2.1.2. PCB fabrication specs: 2.1.2.1. Material: FR-4; TG150 2.1.2.2. Number of layers: Four (4) 2.1.2.3. Dimension: 60mm x 82.25mm ± 0.5 mm 2.1.2.4. PCB Thickness: 1.6mm ± 0.5 mm 2.1.2.5. Copper weight: 1 oz 2.1.2.6. Silkscreen: White 2.1.2.7. Surface finish: HASL with lead 2.1.2.8. Solder mask: Green 2.1.2.9. Minimum trace width: 6/6 mil 2.1.2.10. Hole Specs: 2.1.2.10.1. Minimum hole size: 0.25 mm 2.1.2.10.2. Number of via/pad holes: 430 - 500	1	₱52,788.00	₱52,788.00

Postal Address : ASTI Bldg., U.P. Technology Park Complex,  
CP Garcia Ave., Diliman, Quezon City 1101  
Website : [www.asti.dost.gov.ph](http://www.asti.dost.gov.ph)  
Email : [Info@astl.dost.gov.ph](mailto:Info@astl.dost.gov.ph)

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



- 2.1.2.10.3. Via size: 0.25 mm
- 2.2. PCB Assembly:
  - 2.2.1. Quantity: Five (5) pcs from the 2.1.1 above
  - 2.2.2. Board specs: Refer 2.1.2
  - 2.2.3. Assembly specs:
    - 2.2.3.1. Board type: Single pieces
    - 2.2.3.2. Assembly side: Top side
    - 2.2.3.3. Test method: Flying Probe Test/  
Nail Bed
    - 2.2.3.4. Number of components: 142 ± 3 pcs

3. NOTES

- 3.1. This procurement includes:
  - 3.1.1. Board fabrication and components assembly.
  - 3.1.2. Component sourcing based on Bill on Materials (BOM).
  - 3.1.3. Gerber, BOM and other manufacturing files are available upon request.
- 3.2. Manufacturing files will be provided by the end-user once the supplier has signed the Non-Disclosure Agreement (NDA).

4. WARRANTY AND AFTER-SALES SUPPORT

- 4.1. These motor controller boards must have at least six (6) months of warranty from the time of delivery which covers defects in components, workmanship, and fabrication issues.
- 4.2. Warranty service shall commence from the date of end-user acceptance.
- 4.3. Technical support service must be available Monday to Friday (including holidays), during business hours, 9AM – 6PM Philippines Standard Time (UTC+8).
- 4.4. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.
- 4.5. The end-user must be able to request technical support by phone, email or through a website.

5. DELIVERY AND PAYMENT TERMS

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

(Please see attached quotation.)



2	Lot	<p><b>PCB Fabrication and Assembly</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the FABRICATION OF ONE (1) LOT OF COMMAND AND DATA HANDLING (C&amp;DH) PRIMARY BOARD EM2 which will be used for Metbuoy+ prototyping.</p> <p>1.2. The ABC includes all applicable government taxes and services charges.</p> <p>1.3. Detailed specs based on actual manufacturing files from the end-user shall be observed.</p> <p>1.4. Will be part of the prototype under the Metbuoy+ project.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. PCB Fabrication Only:</p> <p>2.1.1. Quantity: Five (5) pcs</p> <p>2.1.2. PCB fabrication specs:</p> <p>2.1.2.1. Material: FR-4: TG150</p> <p>2.1.2.2. Number of layers: Four (4)</p> <p>2.1.2.3. Dimension: 41 x 25.4 mm</p> <p>2.1.2.4. Board thickness: 1.6 mm</p> <p>2.1.2.5. Copper weight: 1 oz</p> <p>2.1.2.6. Silkscreen: White</p> <p>2.1.2.7. Surface finish: HASL with lead</p> <p>2.1.2.8. Solder mask: Blue</p> <p>2.1.2.9. Minimum trace width: 3/3 mil</p> <p>2.1.2.10. Hole Specs:</p> <p>2.1.2.10.1. Minimum hole size: 0.2 mm</p> <p>2.1.2.10.2. Number of via/pad holes: 300 - 400</p> <p>2.1.2.10.3. Via size: 0.2 mm</p> <p>2.2. PCB Assembly:</p> <p>2.2.1. Quantity:</p> <p>2.2.1.1. Four (4) pcs Assembly A and,</p> <p>2.2.1.2. One (1) pc for Assembly B.</p> <p>2.2.2. Board specs: Refer 2.1.2</p> <p>2.2.3. Assembly A specs:</p> <p>2.2.3.1. Board type: Single pieces</p> <p>2.2.3.2. Assembly side: Both side</p> <p>2.2.3.3. Test method: Flying Probe Test/ Nail Bed</p> <p>2.2.3.4. Number of components: Seventy (70) ± 3 pcs</p> <p>2.2.4. Assembly B specs:</p> <p>2.2.4.1. Board type: Single pieces</p> <p>2.2.4.2. Assembly side: Bottom side only</p> <p>2.2.4.3. Number of components: Two (2) pcs only</p> <p>3. NOTES</p> <p>3.1. This procurement includes:</p> <p>3.1.1. Board fabrication and components assembly.</p> <p>3.1.2. Component sourcing based on BOM.</p> <p>3.1.3. Gerber, BOM and other manufacturing files are available upon request.</p> <p>3.2. Manufacturing files will be provided by the end-user once the supplier has signed the NDA.</p>	1	P45,788.00	P45,788.00
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		<p>4. WARRANTY AND AFTER-SALES SUPPORT</p> <p>4.1. These motor controller boards must have at least six (6) months of warranty from the time of delivery which covers defects in components, workmanship, and fabrication issues.</p> <p>4.2. Warranty service shall commence from the date of end-user acceptance.</p> <p>4.3. Technical support service must be available Monday to Friday (including holidays), during business hours, 9AM – 6PM Philippines Standard Time (UTC+8)</p> <p>4.4. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.</p> <p>4.5. The end-user must be able to request technical support by phone, email or through a website.</p> <p>5. DELIVERY AND PAYMENT TERMS</p> <p>5.1. The goods must be delivered within thirty (30) calendar days upon issuance of NTP.</p> <p>5.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user.</p> <p>5.3. No payment shall be made for supplies and materials not delivered under this contract.</p> <p>(Please see attached quotation.)</p>			
3	Lot	<p><b>PCB Fabrication and Assembly</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the FABRICATION OF ONE (1) LOT OF POWER CONTROL AND DISTRIBUTION BOARD USBC DUAL ROLE PORT (PCDM USBC DRP) EM0 which will be used for Metbuoy+ power subsystem prototyping.</p> <p>1.2. The ABC includes all applicable government taxes and services charges.</p> <p>1.3. Detailed specs based on actual manufacturing files from the end-user shall be observed.</p> <p>1.4. Will be part of the prototype under the Metbuoy+ project</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. PCB Fabrication Only:</p> <p>2.1.1. Quantity: Five (5) pcs</p> <p>2.1.2. PCB fabrication specs:</p> <p>2.1.2.1. Material: FR-4; TG150</p> <p>2.1.2.2. Number of layers: Two (2)</p> <p>2.1.2.3. Dimension: 60 x 33 mm ±1mm</p> <p>2.1.2.4. Board thickness: 1.6 mm ±0.05 mm</p>	1	₱29,858.00	₱29,858.00



- 2.1.2.5. Copper weight: 1 oz
- 2.1.2.6. Silkscreen: White
- 2.1.2.7. Surface finish: HASL with lead-free
- 2.1.2.8. Solder mask: Red
- 2.1.2.8.1. Minimum trace width: 8/8 mil
- 2.1.2.9. Hole Specs:
- 2.1.2.9.1. Minimum hole size: 0.25 mm
- 2.1.2.9.2. Number of via/pad holes: 160 - 170
- 2.1.2.9.3. Via size: 0.25 mm
- 2.2. PCB Assembly:
- 2.2.1. Quantity: Three (3) pcs from the 2.1.1 above
- 2.2.2. Board specs: Refer 2.1.2
- 2.2.3. Assembly specs:
- 2.2.3.1. Board type: Single pieces
- 2.2.3.2. Assembly side: Top side
- 2.2.3.3. Test method: Flying Probe Test/ Nail Bed
- 2.2.3.4. Number of components: 62 ± 3

### 3. NOTES

- 3.1. This procurement includes:
  - 3.1.1. Board fabrication and components assembly.
  - 3.1.2. Component sourcing based on BOM.
  - 3.1.3. Gerber, BOM and other manufacturing files are available upon request.
- 3.2. Manufacturing files will be provided by the end-user once the supplier has signed the NDA.

### 4. WARRANTY AND AFTER-SALES SUPPORT

- 4.1. These motor controller boards must have at least six (6) months of warranty from the time of delivery which covers defects in components, workmanship, and fabrication issues.
- 4.2. Warranty service shall commence from the date of end-user acceptance.
- 4.3. Technical support service must be available Monday to Friday (including holidays), during business hours, 9AM –6PM Philippines Standard Time (UTC+8).
- 4.4. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.
- 4.5. The end-user must be able to request technical support by phone, email or through a website.

### 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 processed once the item is completely delivered,



		<p>inspected, and accepted by the end-user.</p> <p>5.3. No payment shall be made for supplies and materials not delivered under this contract.</p> <p>(Please see attached quotation.)</p>			
4	Lot	<p><b>PCB Fabrication and Assembly</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the FABRICATION OF ONE (1) LOT OF LoRa DAUGHTER BOARD FM2 which will be used in upgrading the current arQ datalogger's data transmission capabilities.</p> <p>1.2. The ABC includes all applicable government taxes and services charges.</p> <p>1.3. Detailed specs based on actual manufacturing files from the end-user shall be observed.</p> <p>1.4. Will be part of the prototype under the Metbuoy+ project.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. PCB Fabrication Only:</p> <p>2.1.1. Quantity: Five (5) pcs</p> <p>2.1.2. PCB Fabrication Specs:</p> <p>2.1.2.1. Material: FR-4</p> <p>2.1.2.2. Number of Layers: Two (2)</p> <p>2.1.2.3. Dimension: 37 x 50 mm</p> <p>2.1.2.4. Board Thickness: 1.6 mm</p> <p>2.1.2.5. Copper Weight: 1 oz</p> <p>2.1.2.6. Silkscreen: White</p> <p>2.1.2.7. Surface Finish: Immersion Gold (ENIG)</p> <p>2.1.2.8. Solder Mask: Purple</p> <p>2.1.2.9. Minimum Trace Width: 0.254 mm</p> <p>2.1.2.10. Hole Specs:</p> <p>2.1.2.10.1. Minimum Hole Size: 0.3 mm</p> <p>2.1.2.10.2. Number of Holes: One Sixty-Three (163)</p> <p>2.1.2.10.3. Via Size: 0.4 mm</p> <p>2.2. PCB Assembly:</p> <p>2.2.1. Quantity: Three (3) pcs from the 2.1.1 above</p> <p>2.2.2. Board Specs: Refer to 2.1.2</p> <p>2.2.3. Assembly Specs:</p> <p>2.2.3.1. Board Type: Single pieces</p> <p>2.2.3.2. Assembly Side: Top Side</p> <p>2.2.3.3. Test Method: Nail Bed/Flying Probe</p> <p>2.2.3.4. Number of Components: Thirty-Two (32)</p> <p>3. NOTES</p> <p>3.1. This procurement includes:</p> <p>3.1.1. Board fabrication and components assembly.</p> <p>3.1.2. Component sourcing based on BOM.</p> <p>3.1.3. Gerber, BOM and other manufacturing files are available upon</p>	1	P18,298.00	P18,298.00




	<p>request.</p> <p>3.2. Manufacturing files will be provided by the end-user once the supplier has signed the NDA.</p> <p>4. WARRANTY AND AFTER-SALES SUPPORT</p> <p>4.1. These motor controller boards must have at least six (6) months of warranty from the time of delivery which covers defects in components, workmanship, and fabrication issues.</p> <p>4.2. Warranty service shall commence from the date of end-user acceptance.</p> <p>4.3. Technical support service must be available Monday to Friday (including holidays), during business hours, 9AM –6PM Philippines Standard Time (UTC+8).</p> <p>4.4. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.</p> <p>4.5. The end-user must be able to request technical support by phone, email or through a website.</p> <p>5. DELIVERY AND PAYMENT TERMS</p> <p>5.1. The goods must be delivered within thirty (30) calendar days upon issuance of NTP.</p> <p>5.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user.</p>			
			<b>TOTAL:</b>	<b>₱146,732.00</b>
<b>(Total Amount in Words)</b>			<b>One Hundred Forty-Six Thousand Seven Hundred Thirty-Two Pesos Only</b>	

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,

\_\_\_\_\_  
(Signature over Printed Name of Supplier)

  
**FRANZ A. DE LEON, Ph.D.**  
Director, DOST-ASTI

\_\_\_\_\_  
(Date)

<b>Fund Cluster:</b>	<u>01</u>	<b>ORS / BURS No.:</b>	<u>02101012025-04-000242</u>
<b>Funds Available:</b>	<u>Php 146,732.00</u>	<b>ORS / BURS Date:</b>	<u>APRIL 08, 2025</u>
		<b>Amount:</b>	<u>₱ 146,732.00</u>
<p> <b>GAY CONCEPCION S. BUGAGAO</b> Accountant III</p>			



07 April 2025

**NOTICE TO PROCEED**  
ALTERNATIVE MODE OF PROCUREMENT

**Ms. MARIBELLE 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) Lot PCB Fabrication and Assembly (C&DH Baseboard EM2 and Other Items
Purchase Request No.	: GAA-25-02-20707
Purchase / Work Order No.	: 25-04-058
Total Contract Price	: ₱146,732.00
(inclusive of taxes, import duties and all other charges or fees)	
Total Contract Price in Words	: One Hundred Forty-Six Thousand Seven Hundred Thirty-Two 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](mailto:bac-sec@asti.dost.gov.ph).

Respectfully,

  
**FRANZ A. DE LEON, Ph.D.** Digitally signed by Jeffrey Aborot  
Director

DATE OF ISSUANCE:  
**11 APR 2025**

RECEIVED BY:  
  
\_\_\_\_\_  
Signature over Printed Name  
  
\_\_\_\_\_  
Date and Time

Postal Address : ASTI Bldg., U.P. Technology Park Complex,  
CP Garcia Ave., Diliman, Quezon City 1101  
Website : [www.asti.dost.gov.ph](http://www.asti.dost.gov.ph)  
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