



ASTI - FM 03-17  
REV 2 / 31 January 2020

**PURCHASE ORDER**

<b>Supplier:</b>	<b>ACE ELECTRONIC TECHNOLOGY, INC.</b>	<b>PO No.:</b>	<b>23-09-192</b>
<b>Address:</b>	<b>12 Timog Avenue, Barangay Laging Handa, Quezon City</b>	<b>PO Date:</b>	<b>September 25, 2023</b>
<b>TIN:</b>	<b>005-423-495-000</b>	<b>Mode of Procurement:</b>	<b>NP-53.9 Small Value Procurement</b>

Gentleman:

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

<b>Place of Delivery:</b>	<b>ASTI Bldg., C.P. Garcia Ave., U.P. Technology Park Complex, U.P. Campus, Diliman, Quezon City 1101</b>	<b>Delivery Term:</b>	<b>Thirty (30) calendar days upon issuance of NTP</b>
<b>Date of Delivery:</b>		<b>Payment Term:</b>	<b>Government Terms</b>
		<b>Warranty Term:</b>	

Stock / Property No.	Unit	Description	Quantity	Unit Cost	Amount
1	Lot	<p><b>PCB Fabrication and Assembly</b></p> <p><b>1GENERAL OVERVIEW</b></p> <p>1.1. DOST-ASTI seeks qualified and competent bidders for the PCB Fabrication with Assembly of one (1) lot of LoRa-E5 Daughter Boards (FM) which will be used in upgrading the current arQ datalogger's data transmission capabilities.</p> <p>1.2. The Approved Budget for the Contract includes all applicable government taxes and services charges.</p> <p>1.3. Detailed specs based on actual manufacturing files from end-user shall be observed.</p> <p><b>2TECHNICAL SPECIFICATIONS</b></p> <p><b>2.1. PCB Fabrication Only</b></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: 2</p> <p>2.1.2.3. Dimension: 37 × 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: ENIG-RoHS</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: 0.4 mm</p> <p>2.1.2.10.2. Number of holes: 118</p> <p>2.1.2.10.3. Via size: 0.4 mm</p> <p><b>2.2. PCB Assembly</b></p> <p>2.2.1. Quantity: Three (3) pcs</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: Both sides</p> <p>2.2.3.3. Test method: Nail Bed/Flying Probe</p> <p>2.2.3.4. Number of components: 26</p> <p><b>3NOTES</b></p> <p>3.1. This procurement includes:</p>	1	P18,495.00	P18,495.00

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@asti.dost.gov.ph](mailto:info@asti.dost.gov.ph)

Tel No. : +632 8249-8500  
+632 8426-9755;  
Fax No. : +632 8426-9764

		<p>3.1.1. Board fabrication and components assembly</p> <p>3.1.2. Component sourcing based on Bill on Materials (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 Non-Disclosure Agreement (NDA).</p> <p><b>4WARRANTY AND AFTER-SALES SUPPORT</b></p> <p>4.1. These LoRa-E5 Daughter 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.</p> <p>4.5. The end-user must be able to request technical support by phone, email or through a website.</p> <p><b>5DELIVERY AND PAYMENT TERMS</b></p> <p>5.1. The goods must be delivered within thirty (30) calendar days upon issuance of Notice to Proceed (NTP).</p> <p>5.2. Full payment will only be given once the item is completely delivered, inspected, and accepted by the End User.</p> <p>5.3. No payment shall be made for the supplies and materials not yet delivered under this contract.</p> <p>(Please see attached quotation.)</p>			
2	Lot	<p><b>PCB Fabrication and Assembly</b></p> <p><b>1GENERAL OVERVIEW</b></p> <p>1.1. DOST-ASTI seeks qualified and competent bidders for the PCB Fabrication of Command and Data Handling (C&amp;DH) Primary Board which will be used for arQv2 prototyping.</p> <p>1.2. The Approved Budget for the Contract 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><b>2TECHNICAL SPECIFICATIONS</b></p> <p><b>2.1. PCB Fabrication Only</b></p> <p>2.1.1. Quantity: Five (5) pieces</p> <p>2.1.2. Board Specifications</p> <p>2.1.2.1. Material: FR-4: TG150</p> <p>2.1.2.2. Number of layers: 6</p> <p>2.1.2.3. Dimension: 41 x 25.4 mm</p> <p>2.1.2.4. Board thickness: 1.6mm</p> <p>2.1.2.5. Finished Copper: 1 oz Cu (Inner Copper: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 track/spacing: 3/3mil</p> <p>2.1.2.10. Customized Service: Via in pad, plugged vias with solder mask.</p> <p>2.1.2.11. Hole Specs</p> <p>2.1.2.11.1. Minimum hole size: 0.2mm</p> <p>2.1.2.11.2. Number of holes: 283</p> <p>2.1.2.11.3. Via size: 0.2mm</p> <p><b>2.2. PCB Assembly</b></p> <p>2.2.1. Quantity: Two (2) pieces</p> <p>2.2.2. Board specs: Refer to 2.1.2</p>	1	₱66,450.00	₱66,450.00



- 2.2.3. Assembly specs:  
 2.2.3.1. Board type: Single pieces  
 2.2.3.2. Assembly side: Both Side  
 2.2.3.3. Test Method: Nail Bed/Flying Probe  
 2.2.3.4. Number of Unique Parts: 28  
 2.2.3.5. Number of components: 65 pieces

**3NOTES**

- 3.1. This procurement includes:  
 3.1.1. Board fabrication and components assembly  
 3.1.2. Component sourcing based on Bill of 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).

**4WARRANTY AND AFTER-SALES SUPPORT**

- 4.1. These C&DH primary 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.  
 4.5. The end-user must be able to request technical support by phone, email or through a website.

**5DELIVERY 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 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.)


		<b>TOTAL:</b>	<b>P84,945.00</b>
<b>(Total Amount in Words)</b>		<b>Eighty Four Thousand Nine Hundred Forty Five 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.

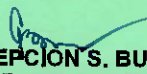
Conforme:

Very Truly Yours,

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

  
**FRANZ A. DE LEON, Ph.D.** Digitally signed by Franz A. De Leon, Ph.D. on 2023.08.15 at 10:00:00 AM. Reason: I am the author of this document.  
 Director, DOST-ASTI

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

Fund Cluster:	<u>01</u>	ORS / BURS No.:	<u>D1101012023 - 09 - 000791</u>
Funds Available:	<u>PHP 84,945.00</u>	ORS / BURS Date:	<u>SEPTEMBER 26, 2023</u>
		Amount:	<u>₱ 84,945.00</u>
 <b>GAY CONCEPCION S. BUGAGAO</b> Accountant III			



25 September 2023

**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	: <b>Supply and Delivery of Two (2) Lots PCB Fabrication and Assembly</b>
Purchase Request No.	: <b>GAA-23-08-17306</b>
Purchase / Work Order No.	: <b>23-09-192</b>
Total Contract Price	: <b>Php 84,945.00</b>
(inclusive of taxes, import duties and all other charges or fees)	
Total Contract Price in Words	: <b>Eighty Four Thousand Nine Hundred Forty Five Pesos</b>

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.** Agency Head  
 11/20/2022  
 11/20/2022  
 Director

DATE OF ISSUANCE:

**OCT 02 2023**

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)  
 Email : [info@asti.dost.gov.ph](mailto:info@asti.dost.gov.ph)

Tel No. : +632 8249-8500  
 +632 8426-9755;  
 Fax No. : +632 8426-9764

ASTI-FM 03-19  
 REV 1 / 13 January 2020