

Republic of the Philippines

DEPARTMENT OF SCIENCE AND TECHNOLOGY ADVANCED SCIENCE AND TECHNOLOGY INSTITUTE





PURCHASE ORDER

AST! - 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:

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

| Stock / Property | Unit | Description | Quantity | Unit Cost | Amount |
|---------------------|------|--|----------|------------|------------|
| No. | | Dooripalon | quantity | Onit Oost | Anount |
| | | PCB Fabrication and Assembly | | | |
| 1 | Lot | 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. | 1 | ₽52,788.00 | ₹52,788.00 |
| | | 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 | | | |

Postal Address : AST) 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

| 2.1. Quantity: Five (5) pcs from the 2.1.1 ove 2.2. Board specs: Refer 2.1.2 2.3. Assembly specs: 2.3.1. Board type: Single pieces 2.3.2. Assembly side: Top side 2.3.3. Test method: Flying Probe Test/ il Bed 2.3.4. Number of components: 142 ± 3 5. NOTES 1. This procurement includes: 1.1. Board fabrication and components sembly. 2. Component sourcing based on Bill on sterials (BOM). 3. Gerber, BOM and other inufacturing files are available upon quest. 1. Manufacturing files will be provided by end-user once the supplier has signed end-user once the supplier has signed end-user once the supplier has right the time of delivery inches the supplier boards must be at least six (6) months of warranty must be at least six (6) months of warranty must be at least six (6) months of warranty must be allable Monday to Friday (including iddays), during business hours, 9AM — A Philippines Standard Time (UTC+8). Any repair or replacement service st be successfully done within thirty (30) sendar days upon receipt of notice from ST-ASTI. The end-user must be able to request notical support by phone, email or bough a website. ELIVERY AND PAYMENT TERMS The goods must be delivered within by (30) calendar days upon issuance of ice to Proceed (NTP). Full payment will only be processed et the item is completely delivered, ected, and accepted by the end-user. No payment shall be made for supplies materials not delivered under this | . Quantity: Five (5) pcs from the 2.1.1 B. Board specs: Refer 2.1.2 . Assembly specs: .1. Board type: Single pieces .2. Assembly side: Top side .3. Test method: Flying Probe Test/led .4. Number of components: 142 ± 3 TES his procurement includes: . Board fabrication and components hibly. Component sourcing based on Bill on rials (BOM). Gerber, BOM and other facturing files are available upon st. tanufacturing files will be provided by nd-user once the supplier has signed on-Disclosure Agreement (NDA). RRANTY AND AFTER-SALES SUPPORT hese motor controller boards must at least six (6) months of warranty the time of delivery covers defects in components, nanship, and fabrication issues. (arranty service shall commence from the of end-user acceptance, echnical support service must be ble Monday to Friday (including ys), during business hours, 9AM — hillippines Standard Time (UTC+8), hy repair or replacement service the successfully done within thirty (30) lar days upon receipt of notice from AAT. AST. Let an end-user must be able to request cal support by phone, email or the a website. IVERY AND PAYMENT TERMS the goods must be delivered within (30) calendar days upon issuance of to Proceed (NTP). Il payment will only be processed the item is completely delivered, ted, and accepted by the end-user. To payment shall be made for supplies aterials not delivered under this ct. | 2.1.2.10.5. Vid Size. 0.25 IIIIII | 1-11-11-11-11-11-11-11-11-11-11-11-11-1 | | 14000 |
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| No payment shall be made for supplies materials not delivered under this tract. | p payment shall be made for supplies aterials not delivered under this ct. | | THE REAL PROPERTY. | | |
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| | | ease see attached quotation) | TO HE SE | TO THE REAL PROPERTY. | |
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2.1.2.10.3. Via size: 0.25 mm

| THE S | | PCB Fabrication and Assembly | | | |
|-------------|---------------|--|--------------------|---------------------------|--|
| | | 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) PRIMARY BOARD EM2 | | | |
| S-1899 | | which will be used for Metbuoy+ | | | |
| | | prototyping. | | | |
| | 13.00 | 1.2. The ABC includes all applicable | 23 24 | | |
| | | government taxes and services charges. | | | |
| 2 | Lot | 1.3. Detailed specs based on actual | 1 | P45,788.00 | P 45,788.00 |
| | 1000 | manufacturing files from the end-user shall | | - | |
| | | be observed. | | | |
| | | | | | |
| | | 1.4. Will be part of the prototype under the Metbuoy+ project. | | | |
| | | 2. TECHNICAL SPECIFICATIONS | | | |
| | E 7.5 | 2.1. PCB Fabrication Only: | | SPECIFIC | |
| | 1 | 2.1.1 Quantity: Five (5) pcs | NEW YORK | Charles ye | |
| | 656 | 2.1.2. PCB fabrication specs: | | THE SHE | |
| | | 2.1.2.1. Material: FR-4: TG150 | 1030 | THE REAL PROPERTY. | |
| | 17215 | 2.1.2.2. Number of layers: Four (4) | 577727 | | |
| | | 2.1.2.3. Dimension: 41 x 25.4 mm | STATE | District St. | |
| | E-V- | 2.1.2.4. Board thickness: 1.6 mm | 18 CONT. | STATE OF STREET | |
| | 1874 | 2.1.2.5. Copper weight: 1 oz | REPORT OF | 3.1 (C) (C) | |
| | | 2.1.2.6. Silkscreen: White | | | |
| | 616 | 2.1.2.7. Surface finish: HASL with lead | | | |
| | | 2.1.2.8. Solder mask: Blue | | | |
| | | 2.1.2.9. Minimum trace width: 3/3 mil | | | |
| | | 2.1.2.10. Hole Specs: | | | |
| | | 2.1.2.10.1. Minimum hole size: 0.2 mm | | | |
| | | 2.1.2.10.2. Number of via/pad holes: 300 - | | | |
| | | 400 | | | |
| | | 2.1.2.10.3. Via size: 0.2 mm | | | |
| | | 2.2. PCB Assembly: | | | |
| | | 2.2.1. Quantity: | | | |
| | | 2.2.1.1. Four (4) pcs Assembly A and, | Marie To | | |
| | | 2.2.1.2. One (1) pc for Assembly B. | | | |
| | | 2.2.2. Board specs: Refer 2.1.2 | SHEET | | |
| | THE RES | 2.2.3. Assembly A specs: | No. | | |
| | | 2.2.3.1. Board type: Single pieces | | | |
| | FEE SA | 2.2.3.2. Assembly side: Both side | FERMS | | |
| | | 2.2.3.3. Test method: Flying Probe Test/ | 12 15 15 15 | | |
| M. 20 M. | 3 33 | Nail Bed | E STEEL | | |
| THE STATE | 5388 | 2.2.3.4. Number of components: Seventy | FRIA | | |
| | | (70) ± 3 pcs | | The state of the state of | |
| | 1 1 1 m | 2.2.4. Assembly B specs: | | A PERMIT | The second second |
| 1 1 3 3 3 4 | | 2.2.4.1. Board type: Single pieces | | | |
| | Saut | 2.2.4.2. Assembly side: Bottom side only | - SA | CONTRACTOR OF | |
| XT CIST | | 2.2.4.3. Number of components: Two (2) | | XIII XA | THE SECTION S |
| | | pcs only | | | |
| = 33 | | 3. NOTES | | | |
| | | 3.1. This procurement includes: | 157738 | STATE OF | NO ETTORES |
| | 44.33 | 3.1.1. Board fabrication and components | 130 130 | Marin Sales | |
| | VE 92.5 | assembly. | THE REAL PROPERTY. | | |
| ETENS: | | 3.1.2. Component sourcing based on BOM. | | | |
| | | 3.1.3. Gerber, BOM and other | | | |
| | 1777 | manufacturing files are available upon | STREET | | |
| | TO THE | request. | | | |
| STATE OF | 1196 | 3.2. Manufacturing files will be provided by | 1000 | | A CONTRACTOR OF THE PARTY OF TH |
| | Eller I | the end-user once the supplier has signed | 2351 | September 5 | |
| | ETAL 1 | the NDA. | F-12 (2 11) | TOUR DESIGNATION OF | THE PERSON NAMED IN |

| - Bible | | | | | |
|-----------|--|--|--------------|--------------|-----------------------|
| | | 4. WARRANTY AND AFTER-SALES SUPPORT | | | |
| | | 4.1. These motor controller boards must | 3-127 | | |
| | | have at least six (6) months of warranty | | | |
| | | from the time of delivery which covers | | | |
| | | defects in components, workmanship, | 1000 | | |
| | | and fabrication issues. | | | |
| | | 4.2. Warranty service shall commence from | | | |
| | | the date of end-user acceptance. | | | |
| | | 4.3. Technical support service must be | 100 | | |
| | | available Monday to Friday (including | | | |
| | | holidays), during business hours, 9AM – 6PM Philippines Standard Time (UTC+8 | E 51 (1) (1) | | |
| | | 4.4. Any repair or replacement service | | | |
| | | must be successfully done within thirty (30) | The same | | |
| | 560 | 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 | | | |
| | 1 | through a website. | 5.95 | | |
| | 4 | | | | |
| | | 5. DELIVERY AND PAYMENT TERMS | 5 | | |
| 32,374 | 1 | 5.1. The goods must be delivered within | | | |
| | | thirty (30) calendar days upon issuance of | | | |
| | | NTP. | | | |
| | | 5.2. Full payment will only be processed | | | |
| C Service | | once the item is completely delivered, | | | |
| | | inspected, and accepted by the end-user. 5.3. No payment shall be made for supplies | | | |
| 335 | F-050 | and materials not delivered under this | | | |
| | | contract. | | | |
| | | Contract. | | | |
| | | (Please see attached quotation.) | | | |
| | | PCB Fabrication and Assembly | | | |
| | 5888 | 4 CENEDAL OVERVIEW | | | |
| | | 1. GENERAL OVERVIEW | | | |
| | | 1.1. DOST-ASTI is seeking qualified and competent bidders for the FABRICATION | | | |
| | | OF ONE (1) LOT OF POWER CONTROL AND | | | |
| | Mark to | DISTRIBUTION BOARD USBC DUAL ROLE | | | |
| | | PORT (PCDM USBC DRP) EM0 which will be | | | |
| | | used for Metbuoy+ power subsystem | | | |
| 3 | Lot | prototyping. | 1 | ₱29,858.00 | ₱29,858.00 |
| | | 1.2. The ABC includes all applicable | | 1 25,555,55 | 1 20,000.00 |
| | | government taxes and services charges. | | | |
| | | 1.3. Detailed specs based on actual | | | |
| | | manufacturing files from the end-user shall | DE LONG | | |
| | | be observed. | | | |
| | | 1.4. Will be part of the prototype under the Metbuoy+ project | | | |
| 100 | FREE | 2. TECHNICAL SPECIFICATIONS | | | THE PERSON |
| M. 1884 | 1600 | 2.1. PCB Fabrication Only: | PER D | | |
| 199 | | 2.1.1. Quantity: Five (5) pcs | MESSER! | THE STATE OF | |
| | -7-72 | 2.1.2. PCB fabrication specs: | SCHOOL STATE | 17 EV 19 TE | |
| | STATE OF THE PARTY | 2.1.2.1. Material: FR-4: TG150 | ALL PARTY | STORES OF | |
| 3350 | | 2.1.2.2. Number of layers: Two (2) | 1000 | | |
| | The state of | 2.1.2.3. Dimension: 60 x 33 mm ±1mm | 1 | E CELLER | |
| | 1000 | 2.1.2.4. Board thickness: 1.6 mm ±0.05 | NEW TOWN | | |
| A-150 | | mm | | Section 1 | PARTY TO THE PARTY OF |
| | | | | | |

| 2.1.2.5. Copper weight: 1 oz 2.1.2.6. Silkscreen: White | | | |
|--|--|------------------|--|
| 2.1.2.6. Sakscreen: white 2.1.2.7. Surface finish: HASL with lead-free | 3575 | Sheet See | |
| 2.1.2.8. Solder mask: Red | 1500 PM | | |
| 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 | THE PARTY | STALL SUG | |
| 3.1. This procurement includes: | ROBER SAN | | |
| 3.1.1. Board fabrication and components | | STORY SEE | |
| assembly. | 295E | | |
| 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 | | SUR CAS | |
| hours, 9AM –6PM Philippines Standard | 1937 | | |
| Time (UTC+8). | WHEEL WAR | | |
| 4.4. Any repair or replacement service | THE REAL PROPERTY. | | |
| must be successfully done within thirty (30) | | No. of Lot | |
| calendar days upon receipt of notice from | | | |
| DOST-ASTI. | | | |
| 4.5. The end-user must be able to request | ALCOMA THE ST | MARKET TOTAL | |
| technical support by phone, email or through a website. | | | |
| tinough a website. | DISTRICT VALUE | SHE STATE | |
| 5. DELIVERY AND PAYMENT TERMS | | | |
| 5.1. The goods must be delivered within | | | |
| thirty (30) calendar days upon issuance of | | | |
| NTP. | THE STATE OF THE STATE OF | | |
| 5.2. Full payment will only be processed | | Service Services | |
| once the item is completely delivered, | | ELSE SEED | |
| once the item is completely delivered, | The second secon | | |

| | | inspected, and accepted by the end-user. | | | |
|-----------------|--------------|--|------------|---|---|
| | | 5.3. No payment shall be made for supplies | | | |
| | 10.00 | and materials not delivered under this | 100 | | |
| | - C B | | | | |
| | | contract. | | | |
| | | (Please see attached quotation.) | | | |
| | | PCB Fabrication and Assembly | | | |
| | | | W-100 | | |
| | | 1. GENERAL OVERVIEW | | 有事的主持 | |
| | | 1.1. DOST-ASTI is seeking qualified and | | | THE RESERVE OF |
| | | competent bidders for the FABRICATION | A COLUMN | | |
| | 2000 | OF ONE (1) LOT OF LORA DAUGHTER | | | |
| | -835 | BOARD FM2 which will be used in | | S. See Land | |
| | | | | | |
| No. of the | | upgrading the current arQ datalogger's | | | |
| 1000 | | data transmission capabilities. | | | |
| | | 1.2. The ABC includes all applicable | | | |
| 4 | Lot | government taxes and services charges. | 1 | ₱18,298.00 | P 18,298.00 |
| | | 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 | | | |
| District States | | Metbuoy+ project. | | | |
| | | | | | |
| | | 2. TECHNICAL SPECIFICATIONS | | | |
| | SAME | 2.1. PCB Fabrication Only: | | | |
| | 200 | 2.1.1. Quantity: Five (5) pcs | | | |
| 5-1-19 | | 2.1.2. PCB Fabrication Specs: | 15 2001 | TO STATE OF THE STATE OF | |
| | 303 | 2.1.2.1. Material: FR-4 | 13 (C) (S) | | |
| | | 2.1.2.2. Number of Layers: Two (2) | | | |
| Der can to | | 2.1.2.3. Dimension: 37 x 50 mm | | | |
| | | 2.1.2.4. Board Thickness: 1.6 mm | | | |
| | | 2.1.2.5. Copper Weight: 1 oz | 1.00 | | |
| | | 2.1.2.6. Silkscreen: White | | | |
| | | 2.1.2.7. Surface Finish: Immersion Gold | | | |
| | | (ENIG) | A-1200 | | |
| | | 2.1.2.8. Solder Mask: Purple | | | |
| | | 2.1.2.9. Minimum Trace Width: 0.254 mm | | | |
| | | 2.1.2.10. Hole Specs: | | | |
| | | 2.1.2.10.1. Minimum Hole Size: 0.3 mm | | | |
| | | 2.1.2.10.2. Number of Holes: One Sixty- | | | |
| Section 2 | | Three (163) | | | |
| 0.000 | | 2.1.2.10.3. Via Size: 0.4 mm | | | |
| | | | | | |
| British M. | | 2.2. PCB Assembly: | | 5-12-13-14-14-14-14-14-14-14-14-14-14-14-14-14- | |
| | | 2.2.1. Quantity: Three (3) pcs from the | 1999 | | THE PERSON OF |
| PARTY | THE STATE OF | 2.1.1 above | 777 | SECTION ! | |
| 40.7 | 1.37.3 | 2.2.2. Board Specs: Refer to 2.1.2 | | | |
| | | 2.2.3. Assembly Specs: | | The Bearing | A CONTROL OF THE |
| 经等于主义 | | 2.2.3.1. Board Type: Single pieces | | | 被控制的控制的 |
| | 3963 | 2.2.3.2. Assembly Side: Top Side | STATE OF | White Park I | PEGERAL PRINT |
| FIFTH SEE | | 2.2.3.3. Test Method: Nail Bed/Flying | 1000 | 是是明显中毒 | 医生性的现在分 |
| | SET OF | Probe | 10000 | | |
| | HE35 | 2.2.3.4. Number of Components: Thirty- | | | |
| | | Two (32) | | | |
| | | 3. NOTES | Jan Bar | | WHITE BEIN |
| | 1618 | 3.1. This procurement includes: | | | |
| ALC: NO. | | 3.1.1. Board fabrication and components | | | |
| | | assembly. | STATE OF | | |
| | THE STATE | 3.1.2. Component sourcing based on BOM. | WEST ! | | STEEL STATE OF STREET |
| | G 5 18 | 3.1.3. Gerber, BOM and other | Water ! | | |
| THE TANK | | manufacturing files are available upon | | | |
| | WILLIAM ST | | A THE | | THE RESERVE TO SHARE THE PARTY OF THE PARTY |

| Conforme: | Very Truly Yours, |
|---|---|
| | Digitally signed leffrey FRANZ A. DE LEON, Ph.D. Digitally signed leffrey Aborot |
| (Signature over Printed Name of Supplier) | Director, DOST-ASTI |
| (Date) | |
| | |

| Fund Cluster: | 01 | ORS / BURS No.:02/01/01/2025 -04-00024 | | |
|--|---------------------------|--|----------------------|--|
| The Park of the Pa | | ORS / BURS | Date: APRIL 08, 2025 | |
| Funds Available: | Php 146,732.00 | Amount: | ₱ 146,732.00 | |
| | | | | |
| | han | | | |
| | GAY CONCEPCION S. BUGAGAO | | | |
| Also at the second | Accountant III | | | |



Republic of the Philippines

DEPARTMENT OF SCIENCE AND TECHNOLOGY ADVANCED SCIENCE AND TECHNOLOGY INSTITUTE





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:

Supply and Delivery of One (1) Lot PCB Fabrication and Assembly (C&DH Baseboard Contract Name

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)

One Hundred Forty-Six Thousand Seven Total Contract Price in Words

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.

| FRANZ A. DE LEON, Ph.D. Justice signed by Jeffrey Aborot | |
|--|-----------------------------|
| DATE OF ISSUANCE: 1 1 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 Email

www.asti.dost.gov.ph ; info@asti.dost.gov.ph Tel No.

: +632 8249-8500

+632 8426-9755;

Fax No. : +632 8426-9764

ASTI--FM 03-19 REV 2 / 05 October 2023