



**DOST-ASTI Bids and Awards Committee
Invitation to Bid (Public Bidding)**

IB No:	25-07-5319	Date:	July-09-2025
PR No:	GAA-25-04-21067	Date:	April-28-2025
Source of Funds:			
Total ABC: Php 8,835,625.00			
Time, Date & Venue of Pre-bid Conference: July 17, 2025, 9:00 AM at Videoconferencing (MS Teams)			
Time and Date of Submission of Bids: July 29, 2025, 09:00 AM			
Time, Date & Venue of Opening Bids: July 29, 2025, 9:30 AM at DOST-ASTI & Videoconferencing (MS Teams)			
Date of availability of Complete Set of Documents: July 10, 2025			
Deadline of Potential Bidder's Clarifications: July 19, 2025			
Deadline of ASTI's Supplemental Bid Bulletin: July 22, 2025			
Delivery Schedule:			

The *Department of Science and Technology (DOST)* - Advanced Science and Technology Institute (ASTI), through its Bids and Awards Committee (BAC), hereby invites all interested Bidders to submit their bids for the *item/s* listed below. *Section II. Instructions to Bidders (ITB) of the DOST-ASTI Bidding Documents provides information necessary for bidders to prepare responsive bids, in accordance with the requirements of DOST-ASTI. The ITB likewise provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and award of contract.*

Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" criterion as specified in the 2016 revised *Implementing Rules and Regulations of Republic Act No. 9184*.

A complete set of *DOST-ASTI Bidding Documents* may be acquired by interested Bidders on the date and address given on this document, and upon payment of the applicable fee, pursuant to the latest *Guidelines* issued by the Government Procurement Policy Board. Further, the *DOST-ASTI Bidding Documents* may be accessed through the *DOST-ASTI website* (<https://asti.dost.gov.ph/>).

For further inquiries, you may contact the **DOST-ASTI BAC Secretariat** at telephone number **+63 2 8249-8500 / +63 2 8426-9755 local 1206/1212** or send your message to **bac-sec@asti.dost.gov.ph**.

Respectfully,

JEFFREY A. ABOROT
BAC Chairperson

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	Recalibration of EMC Test Equipment 1. GENERAL OVERVIEW 1.1. DOST-ASTI is seeking qualified and competent bidders/service providers for the calibration of Electromagnetic Compatibility (EMC) Test Equipment located at the Electronic Product Development Center (EPDC). The calibration must be conducted in compliance with relevant international standards and performed by ISO 17025:2017-accredited laboratories to ensure technical competence and validity of results. 1.2. The Approved Budget for the Contract is inclusive of all applicable government taxes and services charges.	1	lot	8835625.00	8,835,625.00

2. TECHNICAL SPECIFICATIONS

2.1. Calibration services for the following EMC Test Equipment in accordance with applicable international calibration standards and conducted by ISO 17025:2017-accredited laboratories:

2.1.1. One (1) Unit - Bi-Log Antenna

- 2.1.1.1. Model: CBL6143A
- 2.1.1.2. Manufacturer: Teseq
- 2.1.1.3. Serial Number: 36664
- 2.1.1.4. Property Number: 00-21-605-140-00006
- 2.1.1.5. Calibration Specification: According to ANSI C63.5:2017
- 2.1.1.6. Functionality: Electromagnetic Emission
- 2.1.1.7. Calibration Cost Limit: Php 24,000
- 2.1.1.8. Accessory: 1 unit - 3dB Attenuator
 - 2.1.1.8.1. Model: R411803124-3dB-6GHz
 - 2.1.1.8.2. Manufacturer: Radiall

2.1.2. One (1) Unit - Biconical Antenna

- 2.1.2.1. Model: HK116
- 2.1.2.2. Manufacturer: Rohde & Schwarz
- 2.1.2.3. Serial Number: 100620
- 2.1.2.4. Property Number: 00-21-605-140-00009
- 2.1.2.5. Calibration Specification: According to ANSI C63.5:2017
- 2.1.2.6. Functionality: Electromagnetic Emission
- 2.1.2.7. Calibration Cost Limit: Php 29,000

2.1.3. One (1) Unit - EMI Test Receiver

- 2.1.3.1. Model: ESU8
- 2.1.3.2. Manufacturer: Rohde & Schwarz
- 2.1.3.3. Serial Number: 100521
- 2.1.3.4. Property Number: PDH-203
- 2.1.3.5. Calibration Specification: According to CISPR16-1-1:2015 Ed.4.0
- 2.1.3.6. Functionality: Electromagnetic Emission
- 2.1.3.7. Calibration Cost Limit: Php 200,000

2.1.4. One (1) Unit - Log Periodic Antenna

- 2.1.4.1. Model: HL223
- 2.1.4.2. Manufacturer: Rohde & Schwarz
- 2.1.4.3. Serial Number: 100588
- 2.1.4.4. Property Number: 00-21-605-140-00010
- 2.1.4.5. Calibration Specification: According to ANSI C63.5:2017
- 2.1.4.6. Functionality: Electromagnetic Emission
- 2.1.4.7. Calibration Cost Limit: Php 35,000

2.1.5. One (1) Unit - Artificial Mains Network (3Phase)

- 2.1.5.1. Model: ESH2-Z5
- 2.1.5.2. Manufacturer: Rohde & Schwarz
- 2.1.5.3. Serial Number: 100439
- 2.1.5.4. Property Number: 00-21-605-140-00018
- 2.1.5.5. Calibration Specification: According to CISPR16-1-2
- 2.1.5.6. Functionality: Electromagnetic Emission
- 2.1.5.7. Calibration Cost Limit: Php 25,000

2.1.6. One (1) Unit - EMI Test Receiver

2.1.6.1. Model: ESU26 2.1.6.2. Manufacturer: Rohde & Schwarz 2.1.6.3. Serial Number: 100536 2.1.6.4. Property Number: 00-21-605-140-00001 2.1.6.5. Calibration Specification: According to CISPR16-1-1:2015 Ed.4.0 2.1.6.6. Functionality: Electromagnetic Emission 2.1.6.7. Calibration Cost Limit: Php 200,000 2.1.7. One (1) Unit - Horn Antenna 2.1.7.1. Model: BBHA9120E 2.1.7.2. Manufacturer: Schwarzbeck 2.1.7.3. Serial Number: 9120E-597 2.1.7.4. Property Number: 00-21-605-140-00008 2.1.7.5. Calibration Specification: According to ANSI C63.5:2017 1-10GHz 2.1.7.6. Functionality: Electromagnetic Emission 2.1.7.7. Calibration Cost Limit: Php 21,800 2.1.8. One (1) Unit - Horn Antenna 2.1.8.1. Model: HF907 2.1.8.2. Manufacturer: Rohde & Schwarz 2.1.8.3. Serial Number: 4070-7000.02-102369-DQ 2.1.8.4. Property Number: 00-21-605-140-00007 2.1.8.5. Calibration Specification: According to ANSI C63.5:2017 0.8-18GHz 2.1.8.6. Functionality: Electromagnetic Emission 2.1.8.7. Calibration Cost Limit: Php 20,000 2.1.9. One (1) Unit - Loop Antenna 2.1.9.1. Model: HFH2-Z2 2.1.9.2. Manufacturer: Rohde & Schwarz 2.1.9.3. Serial Number: 100381 2.1.9.4. Property Number: 00-21-605-140-00012 2.1.9.5. Calibration Specification: IEEE Std. 291:1991, CA-QP-031 Loop Antenna 2.1.9.6. Functionality: Electromagnetic Emission 2.1.9.7. Calibration Cost Limit: Php 21,500 2.1.10. One (1) Unit - Pulse Limiter 2.1.10.1. Model: ESH3-Z2 2.1.10.2. Manufacturer: Rohde & Schwarz 2.1.10.3. Serial Number: 101865 2.1.10.4. Property Number: 00-21-605-140-00017 2.1.10.5. Calibration Specification: RF Attenuator Calibration Procedure 2.1.10.6. Functionality: Electromagnetic Emission 2.1.10.7. Calibration Cost Limit: Php 11,000 2.1.10.8. Accessory: 1 unit - 10dB Attenuator 2.1.10.8.1. Model: R414710000 2.1.10.8.2. Manufacturer: Radiall 2.1.11. Two (2) Units - Matching Pad (50ohm-75ohm) 2.1.11.1. Model: RAM 2.1.11.2. Manufacturer: Rohde & Schwarz 2.1.11.3. Serial Number: 101746 & 101745 2.1.11.4. Property Number: 00-21-605-140-00031 2.1.11.5. Calibration Specification: RF Attenuator Calibration Procedure 2.1.11.6. Functionality: Electromagnetic Emission 2.1.11.7. Calibration Cost Limit: Php 230,000				
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- 2.1.12. One (1) Unit - Rod Antenna
 - 2.1.12.1. Model: HFH2-Z6
 - 2.1.12.2. Manufacturer: Rohde & Schwarz
 - 2.1.12.3. Serial Number: 100559
 - 2.1.12.4. Property Number: 00-21-605-140-00011
 - 2.1.12.5. Calibration Specification: ARP958 ESCM
 - 2.1.12.6. Functionality: Electromagnetic Emission
 - 2.1.12.7. Calibration Cost Limit: Php 24,000
 - 2.1.12.8. Accessory: 1 unit - DC Power Supply
 - 2.1.12.8.1. Model: HZ-9
 - 2.1.12.8.2. Manufacturer: Rohde & Schwarz
 - 2.1.12.8.3. Serial Number: 101556
 - 2.1.12.8.4. Property Number: 00-21-605-140-00012
- 2.1.13. One (1) Unit - Two Line V-Network (2 Phase)
 - 2.1.13.1. Model: ENV216
 - 2.1.13.2. Manufacturer: Rohde & Schwarz
 - 2.1.13.3. Serial Number: 101749
 - 2.1.13.4. Property Number: 00-21-605-140-00017
 - 2.1.13.5. Calibration Specification: According to CISPR 16-1-2
 - 2.1.13.6. Functionality: Electromagnetic Emission
 - 2.1.13.7. Calibration Cost Limit: Php 5,500
- 2.1.14. One (1) Unit - V-Network 1 (DC)
 - 2.1.14.1. Model: ESH3- Z6
 - 2.1.14.2. Manufacturer: Rohde & Schwarz
 - 2.1.14.3. Serial Number: 101081
 - 2.1.14.4. Property Number: 00-21-605-140-00019
 - 2.1.14.5. Calibration Specification: According to CISPR 16-1-2
 - 2.1.14.6. Functionality: Electromagnetic Emission
 - 2.1.14.7. Calibration Cost Limit: Php 18,000
- 2.1.15. One (1) Unit - V-Network 2 (DC)
 - 2.1.15.1. Model: ESH3- Z6
 - 2.1.15.2. Manufacturer: Rohde & Schwarz
 - 2.1.15.3. Serial Number: 101082
 - 2.1.15.4. Property Number: 00-21-605-140-00020
 - 2.1.15.5. Calibration Specification: According to CISPR 16-1-2
 - 2.1.15.6. Functionality: Electromagnetic Emission
 - 2.1.15.7. Calibration Cost Limit: Php 18,000
- 2.1.16. One (1) Unit - Absorbing Clamp
 - 2.1.16.1. Model: MDS 21
 - 2.1.16.2. Manufacturer: Rohde & Schwarz
 - 2.1.16.3. Serial Number: 100644
 - 2.1.16.4. Property Number: 00-21-605-140-00032
 - 2.1.16.5. Calibration Specification: CISPR 16-1-3
 - 2.1.16.6. Functionality: Electromagnetic Emission
 - 2.1.16.7. Calibration Cost Limit: Php 99,780
- 2.1.17. One (1) Unit - Current Probe
 - 2.1.17.1. Model: EZ-17
 - 2.1.17.2. Manufacturer: Rohde & Schwarz
 - 2.1.17.3. Serial Number: 100782
 - 2.1.17.4. Property Number: 00-21-605-140-00001
 - 2.1.17.5. Calibration Specification: Current Probe

Calibration Measurement Procedure (Doc No. CP025)				
2.1.17.6. Functionality: Electromagnetic Emission				
2.1.17.7. Calibration Cost Limit: Php 108,000				
2.1.18. One (1) Unit - Passive Probe				
2.1.18.1. Model: ESH2-Z3				
2.1.18.2. Manufacturer: Rohde & Schwarz				
2.1.18.3. Serial Number: 100323				
2.1.18.4. Property Number: 00-21-605-140-00021				
2.1.18.5. Calibration Specification: RF Attenuator				
Calibration Procedure (Doc. No. CP011)				
2.1.18.6. Functionality: Electromagnetic Emission				
2.1.18.7. Calibration Cost Limit: Php 7,500				
2.1.19. One (1) Unit - Signal Conditioning Unit 1				
2.1.19.1. Model: SCU 01				
2.1.19.2. Manufacturer: Rohde & Schwarz				
2.1.19.3. Serial Number: 100591				
2.1.19.4. Property Number: 00-21-605-140-00014				
2.1.19.5. Calibration Specification: S21 Gain, S11				
Input, S22 Output VSWR, RF Attenuator Calibration				
Procedure (Doc. No. CP011)				
2.1.19.6. Functionality: Electromagnetic Emission				
2.1.19.7. Calibration Cost Limit: Php 21,500				
2.1.20. One (1) Unit - Signal Conditioning Unit 2				
2.1.20.1. Model: SCU 03				
2.1.20.2. Manufacturer: Rohde & Schwarz				
2.1.20.3. Serial Number: 100311				
2.1.20.4. Property Number: 00-21-605-140-00015				
2.1.20.5. Calibration Specification: S21 Gain, S11				
Input, S22 Output VSWR, RF Amp Calibration				
Procedure (Doc. No. CP010)				
2.1.20.6. Functionality: Electromagnetic Emission				
2.1.20.7. Calibration Cost Limit: Php 20,000				
2.1.21. One (1) Unit - Signal Conditioning Unit 3				
2.1.21.1. Model: SCU 18				
2.1.21.2. Manufacturer: Rohde & Schwarz				
2.1.21.3. Serial Number: 102211				
2.1.21.4. Property Number: 00-21-605-140-00016				
2.1.21.5. Calibration Specification: S21 Gain, S11				
Input, S22 Output VSWR, RF Amp Calibration				
Procedure (Doc. No. CP010)				
2.1.21.6. Functionality: Electromagnetic Emission				
2.1.21.7. Calibration Cost Limit: Php 7,500				
2.1.22. One (1) Unit - Log Periodic Antenna				
2.1.22.1. Model: STLP9128ES				
2.1.22.2. Manufacturer: Schwarzbeck				
2.1.22.3. Serial Number: 3092				
2.1.22.4. Property Number: 01-19-605-140-00009				
2.1.22.5. Calibration Specification: VSWR				
2.1.22.6. Functionality: Electromagnetic Immunity				
2.1.22.7. Calibration Cost Limit: Php 245,000				
2.1.23. One (1) Unit - Log Periodic Antenna				
2.1.23.1. Model: STLP9129				
2.1.23.2. Manufacturer: Schwarzbeck				
2.1.23.3. Serial Number: 03007				
2.1.23.4. Property Number: 01-19-605-140-00008				

- 2.1.23.5. Calibration Specification: VSWR
- 2.1.23.6. Functionality: Electromagnetic Immunity
- 2.1.23.7. Calibration Cost Limit: Php 512,000
- 2.1.24. One (1) Unit - Horn Antenna
 - 2.1.24.1. Model: BBHA9120J
 - 2.1.24.2. Manufacturer: Schwarzbeck
 - 2.1.24.3. Serial Number: 193
 - 2.1.24.4. Property Number: 01-19-605-140-00010
 - 2.1.24.5. Calibration Specification: VSWR
 - 2.1.24.6. Functionality: Electromagnetic Immunity
 - 2.1.24.7. Calibration Cost Limit: Php 118,000
- 2.1.25. One (1) Unit - Electric Field Probe Kit
 - 2.1.25.1. Model: FL7006
 - 2.1.25.2. Manufacturer: Amplifier Research
 - 2.1.25.3. Serial Numbers: 3533306, 0352994 & 0353190
 - 2.1.25.4. Property Number: 01-19-605-140-00034
 - 2.1.25.5. Calibration Specification: IEEE1309:2013
 - 2.1.25.6. Functionality: Electromagnetic Immunity
 - 2.1.25.7. Calibration Cost Limit: Php 350,000
- 2.1.26. One (1) Unit - Attenuator
 - 2.1.26.1. Model: 150-A-FFN-20
 - 2.1.26.2. Manufacturer: Bird
 - 2.1.26.3. Serial Number: 1451298
 - 2.1.26.4. Property Number: 01-19-605-140-00001
 - 2.1.26.5. Calibration Specification: S21 Insertion Loss, Attenuator Calibration Measurement Procedure
 - 2.1.26.6. Functionality: Electromagnetic Immunity
 - 2.1.26.7. Calibration Cost Limit: Php 400,000
- 2.1.27. One (1) Unit - Attenuator
 - 2.1.27.1. Model: 150-A-FFN-06
 - 2.1.27.2. Manufacturer: Bird
 - 2.1.27.3. Serial Number: 1451299
 - 2.1.27.4. Property Number: 01-19-605-140-00002
 - 2.1.27.5. Calibration Specification: S21 Insertion Loss, Attenuator Calibration Measurement Procedure
 - 2.1.27.6. Functionality: Electromagnetic Immunity
 - 2.1.27.7. Calibration Cost Limit: Php 400,000
- 2.1.28. One (1) Unit - Attenuator
 - 2.1.28.1. Model: 100-A-MFN-20
 - 2.1.28.2. Manufacturer: Bird
 - 2.1.28.3. Serial Number: 1454280
 - 2.1.28.4. Property Number: 01-19-605-140-00003
 - 2.1.28.5. Calibration Specification: S21 Insertion Loss, Attenuator Calibration Measurement Procedure
 - 2.1.28.6. Functionality: Electromagnetic Immunity
 - 2.1.28.7. Calibration Cost Limit: Php 500,000
- 2.1.29. One (1) Unit - RF Load
 - 2.1.29.1. Model: 10-NT-MN
 - 2.1.29.2. Manufacturer: Bird
 - 2.1.29.3. Serial Number: 1453937
 - 2.1.29.4. Property Number: 01-19-605-140-00017
 - 2.1.29.5. Calibration Specification: S11 Impedance, 50-ohm Terminator Calibration Procedure
 - 2.1.29.6. Functionality: Electromagnetic Immunity

- 2.1.29.7. Calibration Cost Limit: Php 285,000
- 2.1.30. One (1) Unit - RF Load
 - 2.1.30.1. Model: 8860
 - 2.1.30.2. Manufacturer: Bird
 - 2.1.30.3. Serial Number: 185100572
 - 2.1.30.4. Property Number: 01-19-605-140-00017
 - 2.1.30.5. Calibration Specification: S11 Impedance, 50-ohm Terminator Calibration Procedure
 - 2.1.30.6. Functionality: Electromagnetic Immunity
 - 2.1.30.7. Calibration Cost Limit: Php 285,000
- 2.1.31. One (1) Unit - RF Load
 - 2.1.31.1. Model: BCT 0218-500-F
 - 2.1.31.2. Manufacturer: Bird
 - 2.1.31.3. Serial Number: 1825514-08
 - 2.1.31.4. Property Number: 01-19-605-140-00029
 - 2.1.31.5. Calibration Specification: S11 Impedance, 50-ohm Terminator Calibration Procedure
 - 2.1.31.6. Functionality: Electromagnetic Immunity
 - 2.1.31.7. Calibration Cost Limit: Php 36,400
- 2.1.32. One (1) Unit - Coupling Decoupling Network
 - 2.1.32.1. Model: M116
 - 2.1.32.2. Manufacturer: TESEQ
 - 2.1.32.3. Serial Number: 54017
 - 2.1.32.4. Property Number: 01-19-605-140-00018
 - 2.1.32.5. Calibration Specification: According to IEC 61000-4-6
 - 2.1.32.6. Functionality: Electromagnetic Immunity
 - 2.1.32.7. Calibration Cost Limit: Php 17,000
 - 2.1.32.8. Accessory: 150-50ohm adapter
 - 2.1.32.8.1. Model: CAL U100B
 - 2.1.32.8.2. Manufacturer: TESEQ
 - 2.1.32.8.3. Serial Number: 53965
- 2.1.33. One (1) Unit - Coupling Decoupling Network
 - 2.1.33.1. Model: M016
 - 2.1.33.2. Manufacturer: TESEQ
 - 2.1.33.3. Serial Number: 55154
 - 2.1.33.4. Property Number: 01-19-605-140-00019
 - 2.1.33.5. Calibration Specification: According to IEC 61000-4-6
 - 2.1.33.6. Functionality: Electromagnetic Immunity
 - 2.1.33.7. Calibration Cost Limit: Php 15,200
 - 2.1.33.8. Accessory: 150-50ohm adapter
 - 2.1.33.8.1. Model: CAL U100B
 - 2.1.33.8.2. Manufacturer: TESEQ
 - 2.1.33.8.3. Serial Number: 54073 & 54075
- 2.1.34. One (1) Unit - Coupling Decoupling Network
 - 2.1.34.1. Model: USB/c
 - 2.1.34.2. Manufacturer: TESEQ
 - 2.1.34.3. Serial Number: 540002
 - 2.1.34.4. Property Number: 01-19-605-140-00020
 - 2.1.34.5. Calibration Specification: According to IEC 61000-4-6
 - 2.1.34.6. Functionality: Electromagnetic Immunity
 - 2.1.34.7. Calibration Cost Limit: Php 55,200
 - 2.1.34.8. Accessory: 150-50ohm adapter
 - 2.1.34.8.1. Model: CAL U100B

2.1.34.8.2. Manufacturer: TESEQ
2.1.34.8.3. Serial Number: 53964

2.1.35. One (1) Unit - Coupling Decoupling Network

2.1.35.1. Model: CDN T800
2.1.35.2. Manufacturer: TESEQ
2.1.35.3. Serial Number: 51984
2.1.35.4. Property Number: 01-19-605-140-00021
2.1.35.5. Calibration Specification: According to IEC 61000-4-6
2.1.35.6. Functionality: Electromagnetic Immunity
2.1.35.7. Calibration Cost Limit: Php 25,200
2.1.35.8. Accessory: 150-50ohm adapter
2.1.35.8.1. Model: CAL U100B
2.1.35.8.2. Manufacturer: TESEQ
2.1.35.8.3. Serial Number: 55111 & 55112

2.1.36. One (1) Unit - EM Clamp

2.1.36.1. Model: KEMZ 801A
2.1.36.2. Manufacturer: TESEQ
2.1.36.3. Serial Number: 54084
2.1.36.4. Property Number: 01-19-605-140-00022
2.1.36.5. Calibration Specification: According to IEC 61000-4-6
2.1.36.6. Functionality: Electromagnetic Immunity
2.1.36.7. Calibration Cost Limit: Php 99,000

2.1.37. One (1) Unit - RF Attenuation Clamp

2.1.37.1. Model: KEMA 801B
2.1.37.2. Manufacturer: TESEQ
2.1.37.3. Serial Number: 540084
2.1.37.4. Property Number: 01-19-605-140-00023
2.1.37.5. Calibration Specification: According to IEC 61000-4-6
2.1.37.6. Functionality: Electromagnetic Immunity
2.1.37.7. Calibration Cost Limit: Php 86,000

2.1.38. One (1) Unit - Current Injection Probe

2.1.38.1. Model: CIP9136A
2.1.38.2. Manufacturer: TESEQ
2.1.38.3. Serial Number: 540037
2.1.38.4. Property Number: 01-19-605-140-00024
2.1.38.5. Calibration Specification: According to ISO 11452-4
2.1.38.6. Functionality: Electromagnetic Immunity
2.1.38.7. Calibration Cost Limit: Php 54,000

2.1.39. One (1) Unit - Calibration Jig

2.1.39.1. Model: PCJ9201B
2.1.39.2. Manufacturer: TESEQ
2.1.39.3. Serial Number: 53865
2.1.39.4. Property Number: 01-19-605-140-00025
2.1.39.5. Calibration Specification: According to ISO 11452-4
2.1.39.6. Functionality: Electromagnetic Immunity
2.1.39.7. Calibration Cost Limit: Php 47,000

2.1.40. One (1) Unit - Monitoring Device

2.1.40.1. Model: MD4070A
2.1.40.2. Manufacturer: TESEQ
2.1.40.3. Serial Number: 540100

- 2.1.40.4. Property Number: 01-19-605-140-00026
- 2.1.40.5. Calibration Specification: According to ISO 11452-4
- 2.1.40.6. Functionality: Electromagnetic Immunity
- 2.1.40.7. Calibration Cost Limit: Php 49,000

- 2.1.41. One (1) Unit - Multi-Transient Generator
 - 2.1.41.1. Model: compact NX5 bsp-1-300-16
 - 2.1.41.2. Manufacturer: EM Test
 - 2.1.41.3. Serial Number: P1913228444
 - 2.1.41.4. Property Number: 01-19-605-140-00042
 - 2.1.41.5. Calibration Specification: Burst/Surge/Magnetics According to IEC61000-4-4, -5, -8
 - 2.1.41.6. Functionality: Electromagnetic Immunity
 - 2.1.41.7. Calibration Cost Limit: Php 264,000

- 2.1.42. One (1) Unit - Motor Variac
 - 2.1.42.1. Model: NX1-260-16
 - 2.1.42.2. Manufacturer: EM Test
 - 2.1.42.3. Serial Number: P1915228933
 - 2.1.42.4. Property Number: 01-19-605-140-00048
 - 2.1.42.5. Calibration Specification: IEC 61000-4-8
 - 2.1.42.6. Functionality: Electromagnetic Immunity
 - 2.1.42.7. Calibration Cost Limit: Php 50,000

- 2.1.43. One (1) Unit - Current Transformer
 - 2.1.43.1. Model: MC 26100
 - 2.1.43.2. Manufacturer: EM Test
 - 2.1.43.3. Serial Number: P1914228718
 - 2.1.43.4. Property Number: 01-19-605-140-00047
 - 2.1.43.5. Calibration Specification: IEC 61000-4-8
 - 2.1.43.6. Functionality: Electromagnetic Immunity
 - 2.1.43.7. Calibration Cost Limit: Php 30,000

- 2.1.44. One (1) Unit - Magnetic Field Test Antenna
 - 2.1.44.1. Model: MFC 1000.1
 - 2.1.44.2. Manufacturer: EM Test
 - 2.1.44.3. Serial Number: P1912228052
 - 2.1.44.4. Property Number: 01-19-605-140-00047
 - 2.1.44.5. Calibration Specification: IEC 61000-4-8
 - 2.1.44.6. Functionality: Electromagnetic Immunity
 - 2.1.44.7. Calibration Cost Limit: Php 30,000

- 2.1.45. One (1) Unit - Coupling Network for Signal and Datalines
 - 2.1.45.1. Model: CNV 508T5
 - 2.1.45.2. Manufacturer: EM Test
 - 2.1.45.3. Serial Number: P1806214117
 - 2.1.45.4. Property Number: 01-19-605-140-00043
 - 2.1.45.5. Calibration Specification: According to IEC 61000-4-5
 - 2.1.45.6. Functionality: Electromagnetic Immunity
 - 2.1.45.7. Calibration Cost Limit: Php 483,720

- 2.1.46. One (1) Unit - Coupling Decoupling Assembly for Unshielded and Shielded High-Speed Communication lines
 - 2.1.46.1. Model: CNI 508N2
 - 2.1.46.2. Manufacturer: EM Test
 - 2.1.46.3. Serial Number: P1910227714

- 2.1.46.4. Property Number: 01-19-605-140-00044
- 2.1.46.5. Calibration Specification: According to IEC 61000-4-5
- 2.1.46.6. Functionality: Electromagnetic Immunity
- 2.1.46.7. Calibration Cost Limit: Php 86,000

- 2.1.47. One (1) Unit - Capacitive Coupling Clamp
 - 2.1.47.1. Model: CDN 3425
 - 2.1.47.2. Manufacturer: EM test
 - 2.1.47.3. Serial Number: 3183
 - 2.1.47.4. Property Number: 01-19-605-140-00045
 - 2.1.47.5. Calibration Specification: According to IEC 61000-4-4
 - 2.1.47.6. Functionality: Electromagnetic Immunity
 - 2.1.47.7. Calibration Cost Limit: Php 20,200

- 2.1.48. One (1) Unit - Load Resistors for EFT/Burst Verification
 - 2.1.48.1. Model: PVF 50 & PVF 1000
 - 2.1.48.2. Manufacturer: EM test
 - 2.1.48.3. Serial Number: P1818215207 & P1522157194
 - 2.1.48.4. Property Number: 01-19-605-140-00049
 - 2.1.48.5. Calibration Specification: According to IEC 61000-4-4
 - 2.1.48.6. Functionality: Electromagnetic Immunity
 - 2.1.48.7. Calibration Cost Limit: Php 197,125

- 2.1.49. One (1) Unit - Current Monitor
 - 2.1.49.1. Model: 411
 - 2.1.49.2. Manufacturer: Pearson Electronics
 - 2.1.49.3. Serial Number: 171718
 - 2.1.49.4. Property Number: 01-19-605-140-00050
 - 2.1.49.5. Calibration Specification: According to IEC 61000-4-5
 - 2.1.49.6. Functionality: Electromagnetic Immunity
 - 2.1.49.7. Calibration Cost Limit: Php 9,500

- 2.1.50. One (1) Unit - ESD Calibration Target
 - 2.1.50.1. Model: CTR2
 - 2.1.50.2. Manufacturer: EM test
 - 2.1.50.3. Serial Number: P1911225975
 - 2.1.50.4. Property Number: 01-19-605-140-00041
 - 2.1.50.5. Calibration Specification: According to IEC 61000-4-2
 - 2.1.50.6. Functionality: Electromagnetic Immunity
 - 2.1.50.7. Calibration Cost Limit: Php 241,000

- 2.1.51. One (1) Unit - High Voltage Differential Probe
 - 2.1.51.1. Model: PVS VP 7
 - 2.1.51.2. Manufacturer: EM test
 - 2.1.51.3. Serial Number: 1809537
 - 2.1.51.4. Property Number: 01-19-605-140-00049
 - 2.1.51.5. Calibration Specification: According to IEC 61000-4-5
 - 2.1.51.6. Functionality: Electromagnetic Immunity
 - 2.1.51.7. Calibration Cost Limit: Php 240,000

- 2.1.52. One (1) Unit - Impedance Stabilization Network
 - 2.1.52.1. Model: ISN-T800

2.1.52.2. Manufacturer: TESEQ			
2.1.52.3. Serial Number: 36169			
2.1.52.4. Property Number: 00-21-605-140-00030			
2.1.52.5. Calibration Specification: CISPR 32:2015			
Amd. 1:2019 and CISPR 16-1-2:2014 Amd. 1:2017			
2.1.52.6. Functionality: Electromagnetic Emission			
2.1.52.7. Calibration Cost Limit: Php 17,000			
2.1.53. One (1) Unit - Impedance Stabilization Network			
2.1.53.1. Model: ISN-T8-Cat6			
2.1.53.2. Manufacturer: TESEQ			
2.1.53.3. Serial Number: 32190			
2.1.53.4. Property Number: 00-21-605-140-00029			
2.1.53.5. Calibration Specification: CISPR 32:2015			
Amd. 1:2019 and CISPR 16-1-2:2014 Amd. 1:2017			
2.1.53.6. Functionality: Electromagnetic Emission			
2.1.53.7. Calibration Cost Limit: Php 17,000			
2.1.54. One (1) Unit - Capacitive Voltage Probe			
2.1.54.1. Model: CVP 2200A			
2.1.54.2. Manufacturer: TESEQ			
2.1.54.3. Serial Number: 32691			
2.1.54.4. Property Number: 00-21-605-140-00001			
2.1.54.5. Calibration Specification: Correction Factor			
150kHz to 30MHz			
2.1.54.6. Functionality: Electromagnetic Emission			
2.1.54.7. Calibration Cost Limit: Php 104,000			
2.1.55. One (1) Unit - Click Meter			
2.1.55.1. Model: CL 55C			
2.1.55.2. Manufacturer: AFJ			
2.1.55.3. Serial Number: 55041351246			
2.1.55.4. Property Number: 00-21-605-140-00004			
2.1.55.5. Calibration Specification: According to click			
disturbance, IEC 61000-3-2, IEC 61000-3-3, IEC			
61000-4-7 and IEC 61000-4-15			
2.1.55.6. Functionality: Electromagnetic Emission			
2.1.55.7. Calibration Cost Limit: Php 142,800			
2.1.55.8. Accessory: External Switching Box			
2.1.55.8.1. Model: SW04			
2.1.55.8.2. Manufacturer: AFJ Instruments			
2.1.55.8.3. Serial Number: SW041351114			
2.1.56. One (1) Unit - Harmonics & Flicker Test			
System (AC Power Source) Profline 2105			
2.1.56.1. Model: NSG 1007			
2.1.56.2. Manufacturer: TESEQ			
2.1.56.3. Serial Number: 1406A02589			
2.1.56.4. Property Number: 00-21-605-140-00034			
2.1.56.5. Calibration Specification: According to			
IEC61000-3-2 / 3-3			
2.1.56.6. Functionality: Electromagnetic Emission			
2.1.56.7. Calibration Cost Limit: Php 221,200			
2.1.56.8. Accessory: Harmonics & Flicker Test			
System (Signal Conditioning Unit) Profline 2105			
2.1.56.8.1. Model: CCN 1000-1			
2.1.56.8.2. Manufacturer: TESEQ			
2.1.56.8.3. Serial Number: 1406A0289			
2.1.57. One (1) Unit - Signal Generator 1			

2.1.57.1. Model: SMB100A				
2.1.57.2. Manufacturer: Rohde & Schwarz				
2.1.57.3. Serial Number: 176258				
2.1.57.4. Property Number: 00-21-605-140-00003				
2.1.57.5. Calibration Specification: Frequency, Amplitude, AM, FM, VSWR				
2.1.57.6. Functionality: Electromagnetic Immunity				
2.1.57.7. Calibration Cost Limit: Php 70,000				
2.1.58. One (1) Unit - Signal Generator 2				
2.1.58.1. Model: SMB100A				
2.1.58.2. Manufacturer: Rohde & Schwarz				
2.1.58.3. Serial Number: 107994				
2.1.58.4. Property Number: 00-21-605-140-00003				
2.1.58.5. Calibration Specification: Frequency, Amplitude, AM, FM, VSWR				
2.1.58.6. Functionality: Electromagnetic Immunity				
2.1.58.7. Calibration Cost Limit: Php 70,000				
2.1.59. One (1) Unit - USB RF Power Sensor				
2.1.59.1. Model: RPR2006C				
2.1.59.2. Manufacturer: RADI POWER				
2.1.59.3. Serial Number: 1901009				
2.1.59.4. Property Number: 01-19-605-140-00014				
2.1.59.5. Calibration Specification: Calibration Factor, Linearity, VSWR				
2.1.59.6. Functionality: Electromagnetic Immunity				
2.1.59.7. Calibration Cost Limit: Php 70,000				
2.1.59.8. Accessory: Power Meter				
2.1.59.8.1. Model: CTR1004B				
2.1.59.8.2. Manufacturer: RADI POWER				
2.1.59.8.3. Serial Number: 1901002/ 1901003				
2.1.59.8.4. Property Number: 01-19-605-140-00013/ 01-19-605-140-00004				
2.1.60. One (1) Unit - USB RF Power Sensor				
2.1.60.1. Model: RPR2006C				
2.1.60.2. Manufacturer: RADI POWER				
2.1.60.3. Serial Number: 1901010				
2.1.60.4. Property Number: 01-19-605-140-00015				
2.1.60.5. Calibration Specification: Calibration Factor, Linearity, VSWR				
2.1.60.6. Functionality: Electromagnetic Immunity				
2.1.60.7. Calibration Cost Limit: Php 70,000				
2.1.60.8. Accessory: Power Meter				
2.1.60.8.1. Model: CTR1004B				
2.1.60.8.2. Manufacturer: RADI POWER				
2.1.60.8.3. Serial Number: 1901002/ 1901003				
2.1.60.8.4. Property Number: 01-19-605-140-00013/ 01-19-605-140-00004				
2.1.61. One (1) Unit - USB RF Power Sensor				
2.1.61.1. Model: RPR2006C				
2.1.61.2. Manufacturer: RADI POWER				
2.1.61.3. Serial Number: 1901007				
2.1.61.4. Property Number: 01-19-605-140-00006				
2.1.61.5. Calibration Specification: Calibration Factor, Linearity, VSWR				
2.1.61.6. Functionality: Electromagnetic Immunity				
2.1.61.7. Calibration Cost Limit: Php 70,000				
2.1.61.8. Accessory: Power Meter				

2.1.61.8.1. Model: CTR1004B 2.1.61.8.2. Manufacturer: RADI POWER 2.1.61.8.3. Serial Number: 1901002/ 1901003 2.1.61.8.4. Property Number: 01-19-605-140-00013/ 01-19-605-140-00004 2.1.62. One (1) Unit - USB RF Power Sensor 2.1.62.1. Model: RPR2006C 2.1.62.2. Manufacturer: RADI POWER 2.1.62.3. Serial Number: 1901008 2.1.62.4. Property Number: 01-19-605-140-00005 2.1.62.5. Calibration Specification: Calibration Factor, Linearity, VSWR 2.1.62.6. Functionality: Electromagnetic Immunity 2.1.62.7. Calibration Cost Limit: Php 70,000 2.1.62.8. Accessory: Power Meter 2.1.62.8.1. Model: CTR1004B 2.1.62.8.2. Manufacturer: RADI POWER 2.1.62.8.3. Serial Number: 1901002/ 1901003 2.1.62.8.4. Property Number: 01-19-605-140-00013/ 01-19-605-140-00004 2.1.63. One (1) Unit - USB RF Power Sensor 2.1.63.1. Model: RPR2006C 2.1.63.2. Manufacturer: RADI POWER 2.1.63.3. Serial Number: 1901011 2.1.63.4. Property Number: 01-19-605-140-00016 2.1.63.5. Calibration Specification: Calibration Factor, Linearity, VSWR 2.1.63.6. Functionality: Electromagnetic Immunity 2.1.63.7. Calibration Cost Limit: Php 70,000 2.1.63.8. Accessory: Power Meter 2.1.63.8.1. Model: CTR1004B 2.1.63.8.2. Manufacturer: RADI POWER 2.1.63.8.3. Serial Number: 1901002/ 1901003 2.1.63.8.4. Property Number: 01-19-605-140-00013/ 01-19-605-140-00004 2.1.64. One (1) Unit - ESD Simulator 2.1.64.1. Model: NSG 438 2.1.64.2. Manufacturer: Ametek 2.1.64.3. Serial Number: 1662 2.1.64.4. Property Number: 01-19-605-140-00041 2.1.64.5. Calibration Specification: IEC 61000-4-2 2.1.64.6. Functionality: Electromagnetic Immunity 2.1.64.7. Calibration Cost Limit: Php 85,000 2.1.65. One (1) Unit - AC Clamp Power Meter 2.1.65.1. Model: CM3286 2.1.65.2. Manufacturer: Hioki 2.1.65.3. Serial Number: 190310965 2.1.65.4. Property Number: 01-19-605-140-00047 2.1.65.5. Calibration Specification: According to ISO 17025 2.1.65.6. Functionality: Electromagnetic Immunity 2.1.65.7. Calibration Cost Limit: Php 50,000 2.1.66. One (1) Unit - Digital Storage Oscilloscope 2.1.66.1. Model: DSOS404A 2.1.66.2. Manufacturer: Keysight 2.1.66.3. Serial Number: MY58150215					
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- 2.1.66.4. Property Number: 01-19-605-140-00027
- 2.1.66.5. Calibration Specification: Amplitude, Frequency, Bandwidth
- 2.1.66.6. Functionality: Electromagnetic Immunity
- 2.1.66.7. Calibration Cost Limit: Php 100,000

- 2.1.67. One (1) Unit - AC & DC Power Source
 - 2.1.67.1. Model: 3150AFX-4AGE
 - 2.1.67.2. Manufacturer: Pacific Power Source
 - 2.1.67.3. Serial Number: 123144548
 - 2.1.67.4. Property Number: 01-19-605-140-00051
 - 2.1.67.5. Calibration Specification: Calibration per phase
 - 2.1.67.6. Functionality: Electromagnetic Immunity
 - 2.1.67.7. Calibration Cost Limit: Php 400,000

- 2.1.68. One (1) Unit - Ferrite Clamp
 - 2.1.68.1. Model: EZ-24
 - 2.1.68.2. Manufacturer: Rohde & Schwarz
 - 2.1.68.3. Serial Number: 100175
 - 2.1.68.4. Property Number: 00-21-605-140-00032
 - 2.1.68.5. Calibration Specification: According to CISPR 16-1-3
 - 2.1.68.6. Functionality: Electromagnetic Emission
 - 2.1.68.7. Calibration Cost Limit: Php 70,000

- 2.1.69. One (1) Unit - 6 1/2 Digital Multimeter
 - 2.1.69.1. Model: 34461A
 - 2.1.69.2. Manufacturer: Keysight
 - 2.1.69.3. Serial Number: MY53212202
 - 2.1.69.4. Property Number: PDH-204
 - 2.1.69.5. Calibration Specification: Keysight ANAB
 - 2.1.69.6. Functionality: Parametric measurement
 - 2.1.69.7. Calibration Cost Limit: Php 8,000

- 2.1.70. One (1) Unit - Signal Analyzer
 - 2.1.70.1. Model: FSV13
 - 2.1.70.2. Manufacturer: Rohde & Schwarz
 - 2.1.70.3. Serial Number: 101796
 - 2.1.70.4. Property Number: PDH-209 A
 - 2.1.70.5. Calibration Specification: Frequency, Amplitude, Bandwidth, Attenuator, Log, Span, Noise, VSWR
 - 2.1.70.6. Functionality: Parametric measurement
 - 2.1.70.7. Calibration Cost Limit: Php 245,000

- 2.1.71. One (1) Unit - Digital Oscilloscope
 - 2.1.71.1. Model: RTO 1044
 - 2.1.71.2. Manufacturer: Rohde & Schwarz
 - 2.1.71.3. Serial Number: 400327
 - 2.1.71.4. Property Number: PDH-208
 - 2.1.71.5. Calibration Specification: Amplitude, Frequency, Bandwidth
 - 2.1.71.6. Functionality: Parametric measurement
 - 2.1.71.7. Calibration Cost Limit: Php 150,000

- 2.1.72. One (1) Unit - EXG Vector Signal Generator
 - 2.1.72.1. Model: N5172B
 - 2.1.72.2. Manufacturer: Keysight
 - 2.1.72.3. Serial Number: MY53051484
 - 2.1.72.4. Property Number: PDH-291

2.1.72.5. Calibration Specification: Frequency, Amplitude, Bandwidth, Attenuator, Log, Span, Noise, VSWR

2.1.72.6. Functionality: Parametric measurement

2.1.72.7. Calibration Cost Limit: Php 150,000

2.1.73. One (1) Unit - AC Electronic Load

2.1.73.1. Model: PCZ1000A

2.1.73.2. Manufacturer: Kikusui

2.1.73.3. Serial Number: ZD002676

2.1.73.4. Property Number: 00-19-250-002-0052-00057

2.1.73.5. Calibration Specification: Voltmeter Accuracy, Ammeter Accuracy, Constant Resistance Accuracy, Constant Power Accuracy, Constant Current Accuracy.

2.1.73.6. Maximum input load power: 1000W

2.1.73.7. Input voltage range: 14V to 280V (rms)

2.1.73.8. Input current range: 0 to 10A (rms)

2.1.73.9. Input frequency range: 45 to 65Hz

2.1.73.10. Crest Factor Function: 1.4 to 4.0

2.1.73.11. Calibration Cost Limit: Php 80,000

2.1.74. One (1) Unit - Stop Watch

2.1.74.1. Manufacturer: TRACEABLE

2.1.74.2. Serial Number: S12490500

2.1.74.3. Property Number: 00-19-250 002 0052-00032

2.1.74.4. Calibration Specification: To be calibrated in terms of its timing capabilities.

2.1.74.5. Timing Capacity: 9 hrs., 59 mins., 59 seconds, 99 hundredths

2.1.74.6. Calibration Cost Limit: Php 5,000

2.1.75. One (1) Unit - Automatic Ground Impedance Tester

2.1.75.1. Model: GC-2000

2.1.75.2. Manufacturer: ED&D

2.1.75.3. Serial Number: N12490337

2.1.75.4. Property Number: 00-19-250 002 0052-00022

2.1.75.5. Calibration Specification: Output Current Accuracy 25A and 40A, Impedance Measurement Accuracy.

2.1.75.6. Test current: 25A / 40A

2.1.75.7. Calibration Cost Limit: Php 25,000

2.1.76. One (1) Unit - LCR Meter

2.1.76.1. Model: IM3536

2.1.76.2. Manufacturer: Hioki

2.1.76.3. Serial Number: 161214801

2.1.76.4. Property Number: 00-19-236 001 002-00109

2.1.76.5. Calibration Specification: Inductance, capacitance and resistance measurement accuracy.

2.1.76.6. Measurement modes: LCR (Measurement with single condition), Continuous testing (Continuous measurement under saved conditions)

2.1.76.7. Measurement parameters: Z, Y, θ , X, G, B, Q, Rdc (DC resistance), Rs (ESR), Rp, Ls, Lp, Cs, Cp, D ($\tan\delta$), σ , ϵ

2.1.76.8. Measurement range: 100 mΩ to 100 MΩ, 10 ranges (All parameters are determined according to Z)

2.1.76.9. Measurement range: 100 mΩ to 100 MΩ, 10 ranges (All parameters are determined according to Z)

2.1.76.10. Normal mode: 100 Ω

2.1.76.11. Low impedance high accuracy mode: 10 Ω

2.1.76.12. Calibration Cost Limit: Php 70,000

2.1.77. One (1) Unit - Insulation Tester

2.1.77.1. Model: IR 4057

2.1.77.2. Manufacturer: Hioki

2.1.77.3. Serial Number: 180414988

2.1.77.4. Property Number: 00-19-236 001 002-00113

2.1.77.5. Calibration Specification: DC and AC Voltage, Resistance (continuity and insulation).

2.1.77.6. Test current: Rated Output Voltage: 50VDC, 125VDC, 250VDC, 500VDC, 1000VDC

2.1.77.7. Effective max. indicated value: 100 MΩ, 250MΩ, 500 MΩ, 2000 MΩ, 4000 MΩ

2.1.77.8. Calibration Cost Limit: Php 5,000

2.1.78. One (1) Unit - Oscilloscope

2.1.78.1. Model: TDS2012C

2.1.78.2. Manufacturer: Tektronix

2.1.78.3. Serial Number: C051994

2.1.78.4. Property Number: 00-19-250 002 0052-00053

2.1.78.5. 100 MHz Bandwidth Models

2.1.78.6. 2-channel Model

2.1.78.7. Up to 2GS/s Sample Rate on All Channels

2.1.78.8. 2.5k point Record Length on All Channels

2.1.78.9. 2.5k point Record Length on All Channels

2.1.78.10. Calibration Cost Limit: Php 23,000

3. CALIBRATION SCHEDULE

3.1. Calibration shall be conducted in batches to allow the laboratory to continue operations. The equipment shall be grouped as follows:

3.1.1. Batch 1

3.1.1.1. Bi-Log Antenna CBL6143A

3dB Attenuator R411803124-3dB-6GHz

Biconical Antenna HK116

EMI Test Receiver ESU8

Log Periodic Antenna HL223

Rod Antenna HFH2-Z6

Signal Conditioning Unit 1 SCU 01

Log Periodic Antenna STLP9128ES

Log Periodic Antenna STLP9129

Horn Antenna BBHA9120J

Magnetic Field Test Antenna MFC 1000.1

Click Meter CL 55C

External Switching Box SW04

AC Power Source Proflin 2105 NSG 1007

Signal Conditioning Unit Proflin 2105 CCN 1000-1

3.1.1.2. Must be picked up within fifteen (15) calendar days upon issuance of Notice to Proceed (NTP).

3.1.1.3. Calibration and delivery back to EPDC must

be completed within sixty (60) days before the pickup of Batch 2.

3.1.2. Batch 2:

3.1.2.1. Artificial Mains Network (3Phase) ESH2-Z5

EMI Test Receiver ESU26

Horn Antenna BBHA9120E

Horn Antenna HF907

Loop Antenna HFH2-Z2

Pulse Limiter ESH3-Z2

Accessories for Pulse Limiter: 10dB ATT
R414710000

Matching Pad (50ohm-75ohm) RAM

DC Power Supply HZ-9

Two Line V-Network (2 Phase) ENV216

V-Network 1 (DC) ESH3- Z6

V-Network 1 (DC) ESH3- Z6

Absorbing Clamp MDS 21

Current Probe EZ-17

Passive Probe ESH2-Z3

Signal Conditioning Unit 2 SCU 03

Signal Conditioning Unit 3 SCU 18

3.1.2.2. Must be picked up within ten (10) calendar days after the return of Batch 1.

3.1.2.3. Calibration and delivery back to EPDC must be completed within sixty (60) days before the pickup of Batch 3.

3.1.3. Batch 3:

3.1.3.1. Electric Field Probe Kit FL7006

Attenuator 150-A-FFN-20

Attenuator 150-A-FFN-06

Attenuator 100-A-MFN-20

RF Load 10-NT-MN

RF Load 8860

RF Load BCT 0218-500-F

Coupling Decoupling Network M116

150-50ohm adapter CAL U100B

Coupling Decoupling Network M016

150-50ohm adapter CAL U100B

Coupling Decoupling Network USB/c

150-50ohm adapter CAL U100B

Coupling Decoupling Network CDN T800

150-50ohm adapter CAL U100B

EM Clamp KEMZ 801A

RF Attenuation Clamp KEMA 801B

Current Injection Probe CIP9136A

Calibration Jig PCJ9201B

Monitoring Device MD4070A

Multi-Transient Generator compact NX5 bsp-1-300-16

Motor Variac NX1-260-16

Current Transformer MC 26100

Coupling Network for Signal and Datalines CNV
508T5

Coupling Decoupling Assembly for Unshielded and
Shielded High-Speed Communication lines CNI
508N2

Capacitive Coupling Clamp CDN 3425

Load Resistors for EFT/Burst Verification PVF 50
PVF 1000

Current Monitor 411

ESD Calibration Target CTR2
 High Voltage Differential Probe PVS VP 7
 Impedance Stabilization Network ISN-T800
 Impedance Stabilization Network ISN-T8-Cat6
 Capacitive Voltage Probe CVP 2200A
 3.1.3.2. Must be picked up within ten (10) calendar days after the return of Batch 2.
 3.1.3.3. Calibration and delivery back to EPDC must be completed within sixty (60) days.

3.1.4. Onsite Calibration:
 3.1.4.1. Signal Generator 1 SMB100A
 Signal Generator 2 SMB100A
 Power Meter 1 CTR1004B
 Power Meter 2 CTR1004B
 USB RF Power Sensor RPR2006C
 USB RF Power Sensor RPR2006C
 USB RF Power Sensor RPR2006C
 USB RF Power Sensor RPR2006C
 USB RF Power Sensor RPR2006C
 ESD Simulator NSG 438
 AC Clamp Power Meter CM3286
 Digital Storage Oscilloscope DSOS404A
 AC & DC Power Source 3150AFX-4AGE
 Ferrite Clamp EZ-24
 6 1/2 Digital Multimeter 34461A
 Signal Analyzer FSV13
 Digital Oscilloscope RTO 1044
 EXG Vector Signal Generator N5172B
 AC Electronic Load PCZ1000A
 Stop Watch
 Automatic Ground Impedance Tester GC-2000
 LCR Meter IM3536
 Insulation Tester IR 4057
 Oscilloscope TDS2012C
 3.1.4.2. To be scheduled and conducted within the agreed timeline with minimal disruption to laboratory operations.

4. LOGISTICS REQUIREMENTS
 4.1. Packing and Handling:
 4.1.1. The service provider must ensure that all equipment calibrated outside EPDC is packed in flight cases to prevent damage during transit and handling. The flight cases must be provided by the service provider and must be appropriately sized to fit the equipment securely.
 4.1.2. While EPDC will provide initial measurements, the service provider is required to inspect the equipment to confirm the correct dimensions and ensure proper packaging.
 4.1.3. The flight cases must be durable, shock-resistant, and suitable for international transport, ensuring the safe handling of sensitive EMC Test Equipment.
 4.1.4. The service provider shall be responsible for securing all necessary packing materials and ensuring proper labeling for tracking and identification during shipment.
 4.2. The service provider must shoulder the duties and taxes, freight charges, cargo insurance, among

others:

4.2.1. Duties and Taxes: The service provider shall bear any applicable duties and taxes related to the import/export of the equipment during the calibration process.

4.2.2. Freight Charges: The service provider shall bear the freight charges associated with the transportation of the equipment to and from their facility.

4.2.3. Cargo Insurance: The service provider shall provide cargo insurance coverage for the equipment during transit to safeguard against any potential damage or losses.

4.2.4. Equipment Pickup and Return: The service provider must arrange for the pickup of the equipment from EPDC and ensure its safe return after calibration.

4.3. The service provider must shoulder the shipping/freight charges of the items to be calibrated from and to the address provided below.

4.4. The service provider shall return all the calibrated equipment to EPDC Bldg., MIRDC Compd., Bicutan, Taguig City, Philippines.

4.5. Breakdown of costs per equipment must be provided prior to delivery of service.

4.6. The breakdown of per equipment prices must not exceed the repair cost limit of each unit, and the total cost must not exceed the approved budget for the contract.

5. DUTIES AND RESPONSIBILITIES OF THE SERVICE PROVIDER

5.1. Coordinate with ISO 17025:2017 accredited laboratories, including those located abroad, to facilitate the calibration of EMC Test Equipment.

5.2. Handle all necessary documentation and regulatory requirements for the international shipment and return of equipment.

5.3. Provide calibration certificates traceable to international or national standards, specifying measurement uncertainty and compliance status.

5.4. Ensure proper handling, packing, and transportation of equipment to prevent damage during shipment and calibration.

5.5. Submit a detailed calibration report.

5.6. Notify DOST-ASTI immediately of any equipment found to be out of tolerance and provide technical advice on necessary corrective actions.

5.7. Use only calibrated and certified reference standards and instruments for all calibration procedures.

5.8. Coordinate with EPDC personnel for scheduling, tracking, and reporting the status of equipment under calibration.

5.9. Provide technical support or clarification regarding calibration results when requested by DOST-ASTI or EPDC personnel.

5.10. Comply with all applicable safety regulations and security protocols while handling the shipment and calibration of equipment.

5.11. Maintain confidentiality of any proprietary or sensitive information acquired during the calibration

process. 6. DELIVERY TERMS 6.1. The first batch of equipment for calibration shall be picked up by the service provider within fifteen (15) calendar days upon issuance of Notice to Proceed. 6.2. Calibration and return of each batch must be completed within sixty (60) days before the next batch is picked up. 6.3. The service provider shall furnish the end-user with the calibration certificates as stated in Item 5.3. of the duties and responsibilities upon delivery of each batch. 6.4. The final batch must be returned to EPDC premises within sixty (60) days upon pickup. 7. PAYMENT TERMS 7.1. Price is inclusive of government taxes and other service charges, i.e., labor, miscellaneous expenses, among others. 7.2. Government terms. Full payment will only be processed once the service is completely delivered, inspected, and accepted by the Procuring entity or end-user.				
TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):				Php 8,835,625.00
RESERVATION CLAUSE				
The Advanced Science and Technology Institute reserves the right to accept or reject any proposal, to annul the bidding process, and to reject all proposals at any time prior to contract award, without thereby incurring any liability to the affected proponent or proponents.				