




**REGIONAL PROCUREMENT HUB PROGRAM – REGION 5
 SUPPLEMENTAL BID BULLETIN NO. 24-14
 FOR THE
 PROCUREMENT OF CONSIGNMENT, SUPPLY AND DELIVERY OF KWH
 METERS
 (PB-ITB-R5-1-2024)**

In accordance with Section 4.3.2 of Annex "B" of the NEA Memorandum No. 2024-06, this Supplemental Bid Bulletin is hereby issued to clarify, modify or amend the following items for PB-ITB-R5-1-2024:

Section/Item No.	Issue in the Bidding Documents / Technical Specifications	Clarification / Amendment
Section V. Terms of Reference		
<p align="center">TOR 6.1 (Detailed Technical Specifications and applicable tests for Item A)</p>	<p>With respect to TOR 6.1 Current, Second Bullet, there is a typographical error on the maximum current range which states "#A-60A"</p>	<p>For clarification, TOR 6.1 Current, Second Bullet, is hereby amended to read as follows: "The maximum current within the range of <u>#10A-60A</u>."</p>
<p align="center">TOR 6.1 and 6.2 (Detailed Technical Specifications and applicable tests for Items A and B)</p>	<p>With respect to TOR 6.1 and 6.2, Meter Cover, clarification was sought on whether Polycarbonate is acceptable (in lieu of "Glass").</p>	<p>Upon consultation with the Member ECs of Region 5 a Transparent Polycarbonate Glass Meter Cover is acceptable for Items 6.1 to 6.2. Thus, TOR 6.1 and 6.2, Meter Cover, is hereby amended to read as follows: <u>"Transparent Glass or Transparent Polycarbonate."</u></p>
Section VII. Bid Forms		
<p>Form#10 - Details of Technical Specifications</p>	<p>Bid Form#10 (Details of Technical Specifications) requires revisions to conform with the revisions to TOR 6.1 and 6.2 as provided above.</p>	<p>Bid Form#10 (Details of Technical Specifications) is amended to conform with the revisions to TOR 6.1 and 6.2 Please see revised Details of Technical Specifications Form attached herein as Annex "A".</p>



Issued this 27th day of September 2024 for the guidance and information of all concerned.



ATTY. OSWALDO F. GABAT
Member
NEA RPH SBAC



MS. IRENE C. MARTIN
Member
NEA RPH SBAC

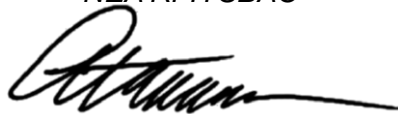


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NEA RPH SBAC



ENGR. ERNESTO O. SILVAÑO, JR.
Chairperson
NEA RPH SBAC

Conforme:



RENATO Z. SAN JOSE
Vice-President
Bicol Electric Cooperative Association, Inc.

Form#10: Details of Technical Specifications

(Letterhead of the Bidder)

Date: _____, 2024

NEA Special Bids and Awards Committee (NEA SBAC)

#57 NEA Building, NIA Road,
Barangay Pinyahan, Government Center Diliman,
Quezon City

Attention: **Engr. Ernesto O. Silvano, Jr.**
*Chairperson of the NEA SBAC
for the RPH Program*

Subject: Details of Technical Specifications of [Name of Bidder]

<i>Detailed Technical Specifications for: Item A (Meter, kWh, 1 Phase, Class 1, 240V, 10(60) A, Bottom Connected, Electronic)</i>			
Particulars	Specifications Prescribed in Bidding Documents	Statement of Compliance	Details of Added Technical Specifications (if any)
Accuracy	<ul style="list-style-type: none"> • Class 1 • Compliance to IEC 62052-11, IEC 62053-21 		
Voltage	<ul style="list-style-type: none"> • Nominal: 230V • Operating Range: 0.7Un - 1.2Un (Min: 161V; Max: 276V) • Power consumption: <10VA 0.2W 		
Current	<ul style="list-style-type: none"> • Basic current: 10A (I_b) • The maximum current within the range of <u>#10A</u> - 60A 		
Frequency	<ul style="list-style-type: none"> • 60Hz, ±2% 		
Meter Constant	<ul style="list-style-type: none"> • 1600imp/kWh or 3200imp/kWh 		
Measurement Modes	<ul style="list-style-type: none"> • Single Phase 2 wire with optional neutral current measurement • Measurement Sensor: CT/CT or CT/Shunt 		

Measured Values	<ul style="list-style-type: none"> • Energy: W-h • Others: Voltage, Current, Line Frequency, PF • Storage of last 3-6 monthly billing data (energy) 		
Pulsing Output	<ul style="list-style-type: none"> • Pulsing LED for energy indication, LED for communication indication • Visible IR LED test pulse for energy • Red LED for alarm indication • The meter display should have at least two LED indicators, Pulse Energy & Reverse 		
Display and LEDs	<ul style="list-style-type: none"> • Large digit LCD (at least 17 x 8 mm) with optional backlight • Number of digits in value field 5+1, 5+2,6+1 or 7+0 • Display shall be fixed at kWh 		
Tamper Evident Features	<ul style="list-style-type: none"> • Present 		
Communications	<ul style="list-style-type: none"> • Optical interface to IEC 62056-21 • Type serial, asynchronous, half-duplex • Max. transmission rate 9600 • Protocol IEC 62056-21 		
Environmental	<ul style="list-style-type: none"> • Temperature test IEC62053-21, IEC62052-11 • Temperature range to IEC62052-11 • Limit Operating Range of -40°C to +75°C • Limit Storage Range of -40°C to +80°C • Limit -45°C to +80°C • Weather Proof • Design to fit for Tropical Countries 		
Terminal Cover	<ul style="list-style-type: none"> • Transparent, Extended (Long terminal cover with aperture for cables) 		
Terminal Block	<ul style="list-style-type: none"> • With Brass terminals and screws suitable for #10-#6AWG wire; Block material must be specified 		
Weight & Dimensions	<p>Note: Please indicate the following Weight & Dimension specifications in the third column:</p>		

	<ul style="list-style-type: none"> • Weight • External dimensions Width • External dimensions Height • External dimensions Depth 		
Internal Meter Loss (IML)	<ul style="list-style-type: none"> • < 0.2 watts 		
Back-Up Battery	<ul style="list-style-type: none"> • Rechargeable, Maintenance-free Lithium Battery • Battery Life at least 5 years 		
Wiring Connection	<ul style="list-style-type: none"> • LNNL (Live Neutral Neutral Live) 		
Meter Case	<ul style="list-style-type: none"> • Reinforced Polycarbonate Alloy 		
Meter Cover	<ul style="list-style-type: none"> • <u>Transparent Glass</u> or <u>Transparent Polycarbonate</u>. 		
Voltage Divider Circuit	<ul style="list-style-type: none"> • Transformer Type 		
Polarity	<ul style="list-style-type: none"> • Unidirectional 		
Meter Holder	<ul style="list-style-type: none"> • Built-in Stainless Steel 		
Compliance	<ul style="list-style-type: none"> • Energy Regulatory Commission Type Approved Certified (ERC Resolution No. 22 Series of 2010) 		
Applicable Test and Sealing	<ul style="list-style-type: none"> • To be delivered to RPH and Member ECs as inspected and sealed by the ERC or ERC Accredited Third Party Metering Shop in accordance with (ERC Resolution No. 4, Series of 2021) 		

<i>Detailed Technical Specifications for: Item B (Meter, kWh, 1 Phase, Class 1, 240V, 5(100) A, Bottom Connected, Electronic)</i>			
Particulars	Specifications Prescribed in Bidding Documents	Statement of Compliance	Details of Added Technical Specifications (if any)
Accuracy	<ul style="list-style-type: none"> • Class 1 • Compliance to IEC 62052-11, IEC 62053-21 		
Voltage	<ul style="list-style-type: none"> • Nominal: 230V • Operating Range: 0.7Un - 1.2Un (Min: 161V; Max: 276V) • Power consumption: <10VA 0.2W 		
Current	<ul style="list-style-type: none"> • Basic current: 5/10A (Ib) • The maximum current within the range of 60A – 100A 		
Frequency	<ul style="list-style-type: none"> • 60Hz, ±2% 		

Meter Constant	<ul style="list-style-type: none"> • 1600imp/kWh or 3200imp/kWh 		
Measurement Modes	<ul style="list-style-type: none"> • Single Phase 2 wire with optional neutral current measurement • Measurement Sensor: CT/CT or CT/Shunt 		
Measured Values	<ul style="list-style-type: none"> • Energy: W-h • Others: Voltage, Current, Line Frequency, PF • Storage of last 3-6 monthly billing data (energy) 		
Pulsing Output	<ul style="list-style-type: none"> • Pulsing LED for energy indication, LED for communication indication • Visible IR LED test pulse for energy • Red LED for alarm indication • The meter display should have at least two LED indicators, Pulse Energy & Reverse 		
Display and LEDs	<ul style="list-style-type: none"> • Large digit LCD (at least 17 x 8 mm) with optional backlight • Number of digits in value field 5+1, 5+2,6+1 or 7+0 • Display shall be fixed at kWh 		
Tamper Evident Features	<ul style="list-style-type: none"> • Present 		
Communications	<ul style="list-style-type: none"> • Optical interface to IEC 62056-21 • Type serial, asynchronous, half-duplex • Max. transmission rate 9600 • Protocol IEC 62056-21 		
Environmental	<ul style="list-style-type: none"> • Temperature test IEC62053-21, IEC62052-11 • Temperature range to IEC62052-11 • Limit Operating Range of -40°C to +75°C • Limit Storage Range of -40°C to +80°C • Limit -45°C to +80°C • Weather Proof • Design to fit for Tropical Countries 		
Terminal Cover	<ul style="list-style-type: none"> • Transparent, Extended (Long terminal cover with aperture for cables) 		
Terminal Block	<ul style="list-style-type: none"> • With Brass terminals and screws suitable for #10-#6AWG wire; Block material must be specified 		

Weight & Dimensions	<p>Note: Please indicate the following Weight & Dimension specifications in the third column:</p> <ul style="list-style-type: none"> • Weight • External dimensions Width • External dimensions Height • External dimensions Depth 		
Internal Meter Loss (IML)	<ul style="list-style-type: none"> • < 0.2 watts 		
Back-Up Battery	<ul style="list-style-type: none"> • Rechargeable, Maintenance-free Lithium Battery • Battery Life at least 5 years 		
Wiring Connection	<ul style="list-style-type: none"> • LNNL (Live Neutral Neutral Live) 		
Meter Case	<ul style="list-style-type: none"> • Reinforced Polycarbonate Alloy 		
Meter Cover	<ul style="list-style-type: none"> • <u>Transparent Glass or Transparent Polycarbonate.</u> 		
Voltage Divider Circuit	<ul style="list-style-type: none"> • Transformer Type 		
Meter Holder	<ul style="list-style-type: none"> • Built-in Stainless Steel 		
Compliance	<ul style="list-style-type: none"> • Energy Regulatory Commission Type Approved Certified (ERC Resolution No. 22 Serie of 2010) 		
Applicable Test and Sealing	<ul style="list-style-type: none"> • To be delivered to RPH and Member ECs as inspected and sealed by the ERC or ERC Accredited Third Party Metering Shop in accordance with (ERC Resolution No. 4, Series of 2021) 		

Company Name:

_____ [Name of Bidder] _____

Authorized Representative:

_____ [Name and Signature of Authorized Representative] _____

Contact Details:
