



REGIONAL PROCUREMENT HUB PROGRAM - REGION 8 SUPPLEMENTAL BID BULLETIN NO. 24-09 FOR THE

PROCUREMENT OF CONSIGNMENT, SUPPLY AND DELIVERY OF KWH **METERS** (PB-ITB-R8-1-2024)

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-R8-1-2024:

Section/Item No.	Issue in the Bidding Documents / Technical Specifications	Clarification / Amendment
Section V. Terms of Referen	ice	
TOR 6.1 to 6.4 (Detailed Technical Specifications and applicable tests for Items A to D)	With respect to TOR 6.1, 6.2, 6.3 and 6.4, Auxiliary Energy Pulse Terminal, clarification was sought on whether an Optical Coupler is acceptable for the said	For clarification, the Auxiliary Energy Pulse Terminal indicated under TOR 6.1, 6.2, 6.3 and 6.4 may cater to an Optical Coupler.
	specification.	The Bidder offering the Optical Coupler specification shall indicate the same in its accomplished Details of Technical Specifications (Bid Form#10) under the Fourth Column corresponding to the Auxiliary Energy Pulse Terminal Requirement (i.e., under Details of Added Technical Specifications [if any]).
TOR 6.1 to 6.4 (Detailed Technical Specifications and applicable tests for Items A to D)	With respect to TOR 6.1, 6.2, 6.3 and 6.4, Meter Constant, First Bullet, clarification was sought on whether a meter constant of 1000imp/kWh (instead of 1600imp/kWh or 3200imp/kWh) is acceptable for Items A, B, C and D.	A Meter Constant of 1000 imp/kWh is <i>not</i> acceptable for Items A, B and C under the Bidding Documents. However, a Meter Constant of 1000imp/kWh is acceptable for Item D (<i>i.e.</i> , Meter, kWh, 1 Phase, Class 200, 240V, Form 1S, Socket Type, Electronic).
		Thus, only TOR 6.4, Meter Constant, First Bullet, is amended to read as follows:







TOR 6.3 and 6.4 (Detailed Technical Specifications and applicable tests for Items C and D – Socket Type kWh Meters)	With respect to TOR 6.3 and 6.4, Accuracy , <i>First Bullet</i> , clarification was sought on whether a ±.5% Accuracy (instead of ±.2%) is acceptable.	"1000imp/kWh or 1600imp/kWh" or 3200imp/kWh" For clarification, an accuracy of ±.5% is acceptable. TOR 6.3 and 6.4, Accuracy, First Bullet, is amended to read as "±.5%".
Section VII. Bid Forms Form#10 - Details of Technical Specifications	Bid Form#10 (Details of Technical Specifications) requires revisions to conform with the revisions to Clauses 6.3 to 6.4 of the TOR as provided above.	Bid Form#10 (Details of Technical Specifications) is amended to conform with the revisions to Clauses 6.3 to 6.4 of the TOR. Please see revised Details of Technical Specifications Form attached herein as Annex "A".

Issued this 16th day of August 2024 for the guidance and information of all concerned.

ATTY. OSWALDO F. GABAT

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Chairperson NEA RPH SBAC APPROVED;

ANTONO MARIANO C. ALMEDA
Administrator

NATIONAL ELECTRIFICATION ADMINISTRATION Office of the Administrator

NEA-0A275208

CONFORME

ATTY. MICHAEL EDWIN S. AMANCIO, CPA, MBM

President

RENAGMEC Power Corporation

Form#10: Details of Technical Specifications

(Létterhead of the Bidder)

Date:	, 2024
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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]

		chnical Specifications for:	Connected Floatrania
Particulars	Item A (Meter, kWh, 1 Phase, Class Specifications Prescribed in Bidding Documents	Statement of Compliance	Details of Added Technical Specifications (if any)
Ассигасу	 Class 1 Compliance to IEC 62052-11, IEC 62053-21 		
Voltage	 Nominal: 220V - 240V Operating Range: 0.7Un - 1.2Un (Max: 276V) Power consumption: <10VA 0.2W 		
Current	Basic current: 10A (lb) The maximum current within the range of #10A - 60A		
Frequency	• 60Hz, ±2%		
Meter Constant	 1600imp/kWh or 3200imp/kWh 		
Measurement Modes	Single Phase 2 wire with optional neutral current measurement Measurement Sensor: CT/CT or CT/Shunt		

Measured Values	Energy: W-h Others: Voltage, Current, Line Frequency, PF Storage of last 3-6 monthly billing data (energy)	
Auxiliary Energy Pulse Terminal	Available	
Pulsing Output	 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 and Reverse 	
Display and LEDs	 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	Present	
Communications	 Optical interface to IEC 62056-21 Type serial, asynchronous, half-duplex Max. transmission rate 9600 Protocol IEC 62056-21 	
Environmental	 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 Design to fit for Tropical Countries 	
Terminal Cover	Transparent, Extended (Long terminal cover with aperture for cables)	
Terminal Block	With Brass terminals and screws suitable for #10- #2AWG wire; Block material must be specified	
Weight & Dimensions	Note: Please indicate the following Weight & Dimension specifications in the third column: Weight External dimensions Width External dimensions Height	

	External dimensions Depth	
Compliance	 Energy Regulatory Commission Type Approved Certified (ERC Resolution No. 22 Series of 2010) 	
Applicable Test and Sealing	 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) 	

		hnical Specifications for	
Particulars	Item B (Meter, kWh, 1 Phase, Class 1 Specifications Prescribed in Bidding Documents	Statement of Compliance	Details of Added Technical Specifications (if any)
Accuracy	Class 1 Compliance to IEC 62052-11, IEC 62053-21		
Voltage	 Nominal: 220V - 240V Operating Range: 0.7Un - 1.2Un (Max: 276V) Power consumption: <10VA 0.2W 		
Current	Basic current: 5/10A (lb) The maximum current within the range of #60A - 100A		
Frequency	• 60Hz, ±2%		
Meter Constant	1600imp/kWh or 3200imp/kWh		
Measurement Modes	 Single Phase 2 wire with optional neutral current measurement Measurement Sensor: CT/CT or CT/Shunt 		
Measured Values	 Energy: W-h Others: Voltage, Current, Line Frequency, PF Storage of last 3-6 monthly billing data (energy) 		
Auxiliary Energy Pulse Terminal	Available		
Pulsing Output	 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	 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	• Present	
Features		
Communications	Optical interface to IEC 62056-21	
	Type serial, asynchronous, half-duplex	
	Max. transmission rate 9600	
	Protocol IEC 62056-21	
Environmental	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	
	Design to fit for Tropical Countries	
	Design to fit for Proposit Countries	
Terminal Cover	Transparent, Extended (Long terminal	
	cover with aperture for cables)	
Terminal Block	With Brass terminals and screws	
Tomman Diodii	suitable for #10-#2AWG wire; Block	
	material must be specified	
Weight &	Note: Please indicate the following Weight &	
Dimensions	Dimension specifications in the third column:	
Dimensions	• Weight	
	External dimensions Width	
	External dimensions Height	
	External dimensions Depth	
Compliance	Energy Regulatory Commission Type Approved	
**************************************	Certified (ERC Resolution No. 22 Serie of 2010)	
Applicable Test and	To be delivered to RPH and Member ECs as	
Sealing	inspected and sealed by the ERC or ERC	
County	The second secon	4.

Accredited Third Party Metering Shop in accordance	
with (ERC Resolution No. 4, Series of 2021)	

Detailed Technical Specifications for: Item C (Meter, kWh, 1 Phase, Class 100, 240V, Form 18, Socket Type, Electronic)				
Particulars	Specifications Prescribed in Bidding Documents	Statement of Compliance	Details of Added Technical Specifications (if any)	
Accuracy	 ±.5% Compliance to ANSI C 12.1, ANSI C 12.10, ANSI C 12.20 			
Voltage	 Nominal: 220V - 240V Operating Range: +10%/ -20% of rated voltage Starting Watts: ≤ 5 W Watt Loss: 0.5W 			
Current	Test Amperes (TA): 15AThe maximum current of 100A			
Frequency	• 60Hz, ±2%			
Meter Constant	1600imp/kWh or 3200imp/kWh			
Measurement Modes	Single Phase 2 wire with optional neutral current measurement Measurement Sensor: CT/CT or CT/Shunt			
Measured Values	 Energy: W-h Others: Voltage, Current, Line Frequency, PF Storage of last 3-6 monthly billing data (energy) 			
Auxiliary Energy Pulse Terminal	Available			
Pulsing Output	 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 and Reverse 			
Display and LEDs	Large digit LCD (at least 17 x 8 mm) with optional backlight			

Tamper Evident Features	Number of digits in value field 5+1,5+2,6+1 or 7+0 Display shall be fixed at kWh Present	
Communications	Optical interface to IEC 62056-21 Type serial, asynchronous, half-duplex Max. transmission rate 9600 Protocol IEC 62056-21	
Environmental	 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 Design to fit for Tropical Countries 	
Weight & Dimensions	Note: Please indicate the following Weight & Dimension specifications in the third column: Weight External dimensions Width External dimensions Height External dimensions Depth	
Compliance	Energy Regulatory Commission Type Approved Certified (ERC Resolution No. 22 Series of 2010)	
Applicable Test and Sealing	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)	

	Detailed Te Item D (Meter, kWh, 1 Phase, Clas	chnical Specifications for ss 200, 240V, Form 1S,	Socket Type, Electronic)
Particulars	Specifications Prescribed in Bidding Documents	Statement of Compliance	Details of Added Technical Specifications (if any)
Accuracy	 ±.5% Compliance to ANSI C 12.1, ANSI C 12.10, ANSI C 12.20 		

Valtana	 Nominal: 220V - 240V 	
Voltage		
	Operating Range: +10%/ -20% of rated	
	voltage	
	Starting Watts: ≤ 5 W	
	Watt Loss: 0.5W	
Current	Test Amperes (TA): 30A	
	The maximum current of 200A	
Frequency	• 60Hz, ±2%	
Meter Constant	1000imp/kWh or 1600imp/kWh or	
	3200imp/kWh	
Measurement	Single Phase 2 wire with optional neutral	
Modes	current measurement	
	Measurement Sensor: CT/CT or CT/Shunt	
Measured Values	Energy: W-h	
	Others: Voltage, Current, Line Frequency, PF	
	Storage of last 3-6 monthly billing data	
	(energy)	
Auxiliary Energy	Available	
Pulse Terminal		
Pulsing Output	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 and Reverse	
Display and LEDs	 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	Present	
Features		
Communications	Optical interface to IEC 62056-21	
	Type serial, asynchronous, half-duplex	
	Max. transmission rate 9600	
	Protocol IEC 62056-21	

Environmental	 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 Design to fit for Tropical Countries 	
Weight &	Note: Please indicate the following Weight &	
Dimensions	Dimension specifications in the third column:	
	Weight	
	External dimensions Width	
	External dimensions Height	
	External dimensions Depth	
Compliance	Energy Regulatory Commission Type Approved Certified (ERC Resolution No. 22 Series of 2010)	
Applicable Test and Sealing	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:	