ALBAY ELECTRIC COOPERATIVE, INC.
W. Vinzon Street, Albay District, Legazpi City
Email Address: bac.alecoinc@gmail.com

Bids and Awards Committee
SUPPLEMENTAL/BID BULLETIN (SBB) NO. 001
For IAEB No. 2026-004

ATTENTION: ALL PROSPECTIVE BIDDERS FOR THE PROJECTS

LOT NO.	PROJECT	SOURCE OF FUND	APPROVED BUDGET FOR THE CONTRACT (ABC)	BIDDING DOCUMENT FEE (PHP)
1	Supply and Delivery of kWh Meters for Commercial (HV/LV) Consumers and New Connection Applications	RFSC	3,820,000.00	5,000.00
2	Supply and Delivery of kWh Meters for Residential Consumers and New Connection Applications	RFSC	24,000,000.00	25,000.00
3	Supply and Delivery of Line Hardware Materials for New Connection, Change Meter, Meter Clustering and HV/LV Consumer Connection Correction Activities	RFSC	6,430,200.00	10,000.00
4	Supply and Delivery of Conductors for New Connection, Change Meter, Meter Clustering and HV/LV Consumer Connection Correction Activities	RFSC	27,221,500.00	25,000.00
5	Supply and Delivery of Current Transformers and Potential Transformers for Feeder Metering and HV/LV Connection Correction Activities	RFSC	10,434,998.00	25,000.00
6	Supply and Delivery of Reclosers for Operations and Maintenance of Distribution Lines	RFSC	2,250,000.00	5,000.00
Note: The Approved Budget of Contract for each lot is VAT inclusive.				

This SBB No. 001 for IAEB No. 2026-004, dated October 9, 2026, is issued to address the queries raised during the Pre-Bid Conference held on October 2, 2026, and to amend or clarify certain provisions of the Bidding Documents. This Supplemental/Bid Bulletin shall form an integral part of the Bidding Documents.

1. The schedule for the submission and opening of bids shall proceed as follows:

ACTIVITY	DATE	TIME	PLACE
Deadline of Submission of Bids	October 14, 2026	12:59 PM	Board Room, ALECO Main Office, W. Vinzon Street, Legazpi City
Bid Opening	October 14, 2026	1:00PM	Social Hall ALECO Main Office, W. Vinzons St., Legazpi City

*Late submissions shall not be accepted.

2. General Amendments/Clarifications:

a. IAEB item no. 4

Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" criterion for eligibility check, examination, and evaluation of bids and post qualification based on NEA's Procurement Guidelines and Simplified Bidding procedures for Electric Cooperatives (IRR of RA 10531 for Lots 1 to 6).

b. Technical Specification for Three-Phase SCADA Ready Meter (LOT 1, Section III.1)

Standards and Compliances	Class 0.2S and Class 0.5S IEC 62052-11 (Class 0.2S) IEC 62053-22 (Class 0.5S) IEC 62053-23 (Class 2) IEC 62053-24 EN 50470-1, EN 50470-3 NMI-M6
Measurement	3 Phase 3 Wire 3 Phase 4 Wire
Nominal Voltage	Nominal Voltage: 57 V – 240 V (Phase to Neutral) Burden: < 10 VA / Phase @ Vn (3 Phase), as per IEC 62053-61
Current	CT range: 1/4 A, 1/6 A, 5/10 A and 5/20 A Short time over-current: 20 x Imax for 0.5 seconds Burden: < 0.5 VA/phase
Auxiliary Supply Option	100 V to 240 V AC/DC
Frequency	45 Hz – 65 Hz
Inputs/Outputs Configuration	Up to 10 I/O total, independent common ground with 4kV isolation Active input 5 V Passive input voltage: 5 V, 12 V, 24 V, 48 V, 110 V, 240 V BOSFET output: 240 V, 100 mA maximum 2 Programmable LED indicators Programmable output pulse width: 1 ms to 250 ms Programmable output polarity Time synchronized (optional)
Battery	Backup type: Optional lithium battery 1200 mAh, 3.6 V and SuperCap (single/dual) Backup time: 2 years without power Battery shell life of 10 plus years at room temperature
Real-time Clock	Accuracy: 0.5 seconds per day (over full temperature range) Mains synchronized or internal crystal (TCXO) time keeping. Mains synchronized reverts to

	internal crystal (TXCO) on loss of all phase volts
Data Memory	Configuration, TOU data and load survey data (Flash RAM, Battery backed up RAM)
Display	16 Characters by 2 lines alphanumeric display Programmable units, multipliers and leading zeros Up to 64 user-defined screen displays Displays any available meter parameter
Measured Values	3 elements, 4 quadrants Import/Export/Absolute Wh, varh and Vah Phase A, B, C or Total W, var, VA True RMS voltage (3 phase) True RMS current (3 phase) Power factor, frequency, phasor angles
Power Quality Indication	Total Harmonic Distortion (THD) Unbalance Fundamental voltage, current, and watt measurement Harmonics (up to the 50th) Sag/Swell (5 cycle resolution, records time/ date/ phase/ duration/ average and worst excursion, programmable trigger levels) Waveform capture (voltage and current only)
Load Survey /Profile	NEM compliant Over 900 kilobytes of flash data storage space - 3100 day-channel capacity at 30 minute intervals - 1875 day capacity at 30 minute intervals/2 channels - 520 day capacity at 15 minute intervals/3 channels Up to 50 channels Interval programmable from 1 minute to 1 month Multiple independent surveys Energy, instantaneous readings, pulsing inputs, average/min/max readings
Time of Use	8 rates plus unified rate Up to 12 separate import and export registers Up to 200 programmable special days Daily, weekly, monthly, yearly and special days 13 or more previous periods Block or rolling maximum demand Time of maximum demand Configurable billing rest button
Communications	Up to 3 independently working communication ports:

	- Optical port: FLAG (IEC 62056-21) or ANSI Type 2 (ANSI C12.18) - RS-232 (RTS/CTS and DTR/DCD) - RS-485 multi-drop (4-wire with RJ45 or screw terminal) Optional for SCADA card Optional for internal modem power supply Master/Slave arrangement with up to 31 "Slave" meters accessed through one "Master" gateway meter
Protocols	Integrated command line MODBUS DNP3 level 2 IEC 870-5 102 DL/T 645-2007 DLMS
Software	Integrated software for programming and reading the meter, allows offline configuration or tariff programs and all meter parameters, for later upload to meters
Environmental	Specified operating range: -25 °C to +60 °C Storage range limit: -25 °C to +80 °C Relative humidity: Up to 95% non-condensing

c. Updated Annex "F", Technical Specification for Three-Phase SCADA Ready Meter is already included (LOT 1)

SPECIFICATION		**Statement of Compliance (Compliant/Not Compliant)**	**Proof of Evidence**
THREE-PHASE SCADA READY METER			
Standards and Compliances	Class 0.2S and Class 0.5S IEC 62052-11 (Class 0.2S) IEC 62053-22 (Class 0.5S) IEC 62053-23 (Class 2) IEC 62053-24 EN 50470-1, EN 50470-3 NMI-M6		
Measurement	3 Phase 3 Wire 3 Phase 4 Wire		
Nominal Voltage	Nominal Voltage: 57 V – 240 V (Phase to Neutral) Burden: < 10 VA / Phase @ Vn (3 Phase), as per IEC 62053-61		
Current	CT range: 1/4 A, 1/6 A, 5/10 A and 5/20 A Short time over-current: 20 x Imax for 0.5 seconds Burden: < 0.5 VA/phase		
Auxiliary Supply Option	100 V to 240 V AC/DC		

SPECIFICATION		Statement of Compliance (Compliant/Not Compliant)	Proof of Evidence
Frequency	45 Hz – 65 Hz		
Inputs/Outputs Configuration	Up to 10 I/O total, independent common ground with 4kV isolation Active input 5 V Passive input voltage: 5 V, 12 V, 24 V, 48 V, 110 V, 240 V BOSFET output: 240 V, 100 mA maximum 2 Programmable LED indicators Programmable output pulse width: 1 ms to 250 ms Programmable output polarity Time synchronized (optional)		
Battery	Backup type: Optional lithium battery 1200 mAh, 3.6 V and SuperCap (single/dual) Backup time: 2 years without power Battery shell life of 10 plus years at room temperature		
Real-time Clock	Accuracy: 0.5 seconds per day (over full temperature range) Mains synchronized or internal crystal (TCXO) time keeping. Mains synchronized reverts to internal crystal (TXCO) on loss of all phase volts		
Data Memory	Configuration, TOU data and load survey data (Flash RAM, Battery backed up RAM)		
Display	16 Characters by 2 lines alphanumeric display Programmable units, multipliers and leading zeros Up to 64 user-defined screen displays		

SPECIFICATION		Statement of Compliance (Compliant/Not Compliant)	Proof of Evidence
	Displays any available meter parameter		
Measured Values	3 elements, 4 quadrants Import/Export/Absolute Wh, varh and Vah Phase A, B, C or Total W, var, VA True RMS voltage (3 phase) True RMS current (3 phase) Power factor, frequency, phasor angles		
Power Quality Indication	Total Harmonic Distortion (THD) Unbalance Fundamental voltage, current, and watt measurement Harmonics (up to the 50th) Sag/Swell (5 cycle resolution, records time/ date/ phase/ duration/ average and worst excursion, programmable trigger levels) Waveform capture (voltage and current only)		
Load Survey /Profile	NEM compliant Over 900 kilobytes of flash data storage space - 3100 day-channel capacity at 30 minute intervals - 1875 day capacity at 30 minute intervals/2 channels - 520 day capacity at 15 minute intervals/3 channels Up to 50 channels Interval programmable from 1 minute to 1 month		

SPECIFICATION		Statement of Compliance (Compliant/Not Compliant)	Proof of Evidence
	Multiple independent surveys Energy, instantaneous readings, pulsing inputs, average/min/max readings		
Time of Use	8 rates plus unified rate Up to 12 separate import and export registers Up to 200 programmable special days Daily, weekly, monthly, yearly and special days 13 or more previous periods Block or rolling maximum demand Time of maximum demand Configurable billing rest button		
Communications	Up to 3 independently working communication ports: - Optical port: FLAG (IEC 62056-21) or ANSI Type 2 (ANSI C12.18) - RS-232 (RTS/CTS and DTR/DCD) - RS-485 multi-drop (4-wire with RJ45 or screw terminal) Optional for SCADA card Optional for internal modem power supply Master/Slave arrangement with up to 31 "Slave" meters accessed through one "Master" gateway meter		
Protocols	Integrated command line MODBUS DNP3 level 2 IEC 870-5 102		

SPECIFICATION		Statement of Compliance (Compliant/Not Compliant)	Proof of Evidence
	DL/T 645-2007 DLMS		
Software	Integrated software for programming and reading the meter, allows offline configuration or tariff programs and all meter parameters, for later upload to meters		
Environmental	Specified operating range: -25 °C to +60 °C Storage range limit: -25 °C to +80 °C Relative humidity: Up to 95% non-condensing		
All specifications stated herein for each item shall be governed and guided by the minimum technical requirements prescribed under Section III – Terms of Reference and Specifications of the Bid Documents			

d. For LOT 1 and 2, bidders shall bring actual samples of their offered kWh meters during the bid opening. For LOT 1, covering kWh meters for commercial consumers, bides who are unable to bring actual samples may submit brochures or product catalogues containing the relevant product details and technical specifications in lieu thereof.

ALL kWh meters to be provided by the winning bidder shall bear ERC Meter Seal and be accompanied by the corresponding ERC Test Results.

e. Clarification for Technical Specification for kWh meter for residential consumers (Lot 2, Section III.1)

FM1S 5(100)

Connection Type	Bottom Connected
Voltage Rating	240 Volts or Lower Operating Voltage
Basic Current	5 Amperes or Lower
Max Current	100 Amperes
Starting Current	20 mA
Meter Class	Class 1
Wiring configuration	2 Wire
No of Phase/s	Single Phase
Impulse Rate	1600imp/Kwh or Better
Class Index	0.5% Error or Better
Power Consumption	0.2 Watts or Lower
Frequency	60 Hz
Working Temperature	-25˚C to 85˚C (IP 54 Weather Proof)
Back-up Battery	Yes

Display	Large Digit LCD Register, Number of digits in value field 5+1, 5+2,6+1 or 7+0
LEDs	Visible IR LED test pulse for energy, Red LED for alarm indication
Connection Terminal	Compression connector type terminal screw
Registers	Energy: +kWh, -kWh, +kVARh, -kVARh Instantaneous Values: kW, kVAR, kVA, V, A, p.f., Hz
Net Metering Ready	Delivered, Received, Total, and Net Energy
Programmable	12 Month Billing Data Load Profiling Maximum Demand with Date and Stamps Time of Use up to 4 tariffs Calendar and real time clock
Communication Interface Optical communication	IEC62056-21C Compliant (For Communication Interface, Meter Programming and Data Collection)
Connection Terminals	Compression Connector Type Terminal Screw
Enclosure/Meter Cover	Opaque polycarbonate (PC) + glass fiber with a transparent window -Ultrasonic Welded Meter Cover
Meter Base Terminal Cover	Opaque polycarbonate (PC) + glass fiber Clear PC + glass fiber

f. Updated Annex "F", Technical Specification for 5(100) kWh meter (LOT 2)

SPECIFICATION		**Statement of Compliance (Compliant/Not Compliant)**	**Proof of Evidence**
FM1S 5(100)			
Connection Type	Bottom Connected		
Voltage Rating	240 Volts or Lower Operating Voltage		
Basic Current	5 Amperes or Lower		
Max Current	100 Amperes		
Starting Current	20 mA		
Meter Class	Class 1		
Wiring configuration	2 Wire		
No of Phase/s	Single Phase		
Impulse Rate	1600imp/Kwh or Better		
Class Index	0.5% Error or Better		
Power Consumption	0.2 Watts or Lower		
Frequency	60 Hz		

SPECIFICATION		Statement of Compliance (Compliant/Not Compliant)	Proof of Evidence
Working Temperature	-25˚C to 85˚C (IP 54 Weather Proof)		
Back-up Battery	Yes		
Display	Large Digit LCD Register, Number of digits in value field 5+1, 5+2,6+1 or 7+0		
LEDs	Visible IR LED test pulse for energy, Red LED for alarm indication		
Connection Terminal	Compression connector type terminal screw		
Registers	Energy: +kWh, -kWh, +kVARh, -kVARh Instantaneous Values: kW, kVAR, kVA, V, A, p.f., Hz		
Net Metering Ready	Delivered, Received, Total, and Net Energy		
Programmable	12 Month Billing Data Load Profiling Maximum Demand with Date and Stamps Time of Use up to 4 tariffs Calendar and real time clock		
Communication Interface Optical communication	IEC62056-21C Compliant (For Communication Interface, Meter Programming and Data Collection)		
Connection Terminals	Compression Connector Type Terminal Screw		
Enclosure/Meter Cover	Opaque polycarbonate (PC) + glass fiber with a transparent window -Ultrasonic Welded Meter Cover		
Meter Base Terminal Cover	Opaque polycarbonate (PC) + glass fiber Clear PC + glass fiber		
All specifications stated herein for each item shall be governed and guided by the minimum technical requirements prescribed under Section III – Terms of Reference and Specifications of the Bid Documents			

g. Revision of Payment Terms (LOT 2 & LOT 4, Section III.2)

The Contractor shall claim payment based on the actual quantity of items successfully delivered, inspected, and accepted by the Procuring Entity, the End-User, or its duly authorized representative, in accordance with the specific requirements and delivery schedule set forth in the Purchase Order.

Payment shall be calculated proportionally to the quantity of compliant items delivered per Purchase Order release, evaluated against the agreed unit prices.

h. All materials and equipment are NOT Brand specific. Any brand is acceptable as long as the items completely meet or exceed the Technical Specification provided in the bidding documents. (LOT 2 AND LOT 3)

LOT 2

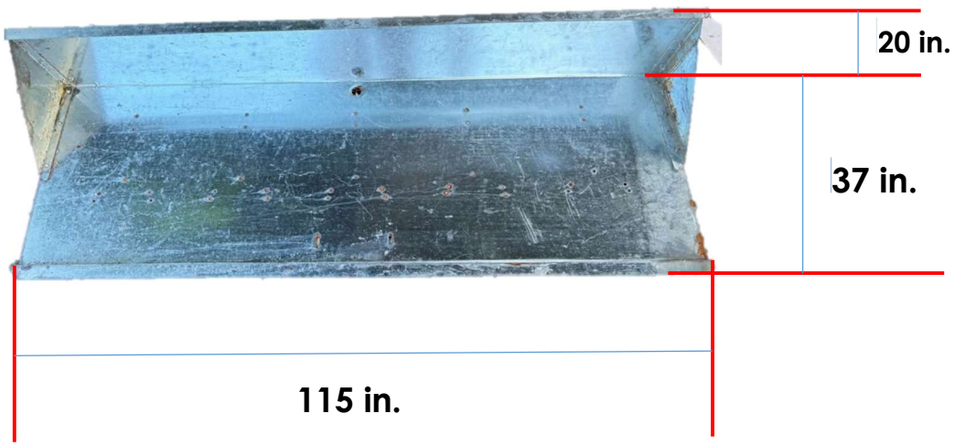
DESCRIPTION	QTY	UOM
METER, KWH, 1 PHASE, CLASS 1, 240V, 5(100)A, BOTTOM CONNECTED, ELECTRONIC	15,000	Piece

LOT 3

DESCRIPTION	QTY	UOM
ANCHOR, EXPANDING, 8-WAY, GALVANIZED	100	Piece
BOLT, OVAL EYE 5/8" X 10", HOT DIP GALVANIZED, FORGED	1,000	Piece
BRACKET, CLEVIS DEAD-END WITHOUT SPOOL	100	Piece
CLAMP, GUY, STRAIGHT, 3 BOLT, HEAVY DUTY STEEL, HOT DIP GALVANIZED	200	Piece
CLAMP, LOOP DEADEND, #6 TO #2/0 ACSR	300	Piece
CLEVIS, SECONDARY, SWINGING, W/O SPOOL, HOT DIP GALVANIZED	300	Piece
CLUSTER METERSHED / CLUSTER BOX,(5 KWH METER CAPACITY). G.I. GAUGE #16, NO WELDED PARTS, HORIZONTAL	1,500	Set
CONNECTOR, COMPRESSION, YHD 200, RUN #1/0 -#2/0 - TAP #6 - #2	5,000	Piece
CONNECTOR, COMPRESSION, YHD-300, RUN #1/0-#2/0 - TAP #1/0-#2/0	5,000	Piece
CONNECTOR, COMPRESSION, YHD-400, RUN #2/0-#4/0 - TAP #2/0-#4/0	5,000	Piece
CONNECTOR, COMPRESSION, YPC2A8U, RUN #6-#4 - TAP #14-#8	15,000	Piece
NUT, LOCK, SQUARE, MF TYPE, CURVED, 5/8"	600	Piece
NUT, OVAL EYE, 5/8", CONVENTIONAL	800	Piece
ROD, GROUND, STEEL, GALVANIZED, 5/8" X 08	200	Piece
WASHER, SQUARE, FLAT, 2-1/4" X 2-1/4" X 3/16", 13/16"HOLE	3,000	Piece
WIRE, GROUND, ALUMINUM ALLOY, #4 AWG, 3-STRAND	3,000	Feet
WIRE, GUY, STEEL, 3/8", 7 STRAND	4,000	Feet
WIRE, TIE, ALUMINUM ALLOY, SOFT, #4 AWG (FEET)	1,000	Feet
INSULATOR, PIN TYPE, PORCELAIN, ANSI, CLASS 56-2	300	Piece
CONNECTOR, COMPRESSION, YHD 250, RUN #1 - #4/0 -TAP #6 - #2	5,000	Piece

i. For LOT 5, bidders may submit their offered CT and PT mulit-ratios, provided that these meet ALECO's minimum requirement.

j. Dimension and picture of cluster box





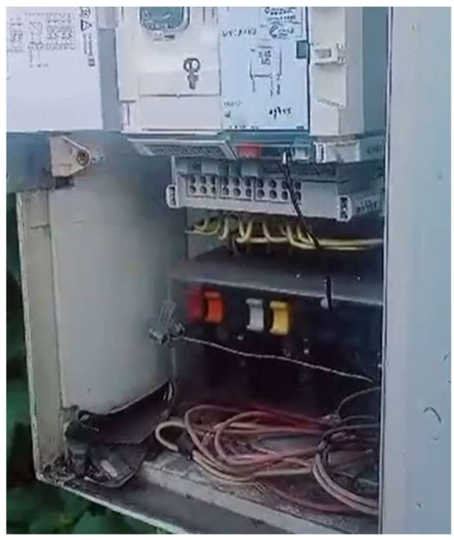
k. Photo reference for the following:

- **Steel Bracket for Primary Metering**



- **Meter Equipment Mounting Test Switch, 230 V, 80 A**





- **Meter Box**







For the guidance and information of all concerned.

Issued this 9th day of October, 2026 at ALECO Main Office, W. Vinzons Street, Albay District, Legazpi City.

By the Authority of the Bids and Awards Committee:

(Sgd.)
ENGR. MARK JESSAN E. LUCILO
Chairperson