



CAMARINES NORTE ELECTRIC COOPERATIVE, INC.

J.P. Rizal Street, Brgy. 1, Daet, Camarines Norte, Philippines

CANORECO Hotline: +63 908 186 5100; +63 919 095 2707

Email address: canoreco_197505@yahoo.com



CRN: 44 100 23 93 0028

INVITATION TO BID NO. 2024-055

To: ALL CANO RECO ACCREDITED SUPPLIERS

DATE: March 15, 2024

You are hereby invited to submit your sealed bids for the requirement listed below.

ANNUAL PREVENTIVE MAINTENANCE AT LAG ON 20 MVA SUBSTATION

- I. Preventive Maintenance Scope of Works:
 - A. Power Transformer
 1. Insulation Resistance
 2. Insulation Power factor
 3. Turn Ratio
 4. Winding Resistance
 5. Excitation
 6. Insulation Oil Tests
 - a. Dielectric Breakdown Voltage
 - b. Oil Power Factor
 - c. Dissolved Gas Analysis
 - d. Water-in-oil/Moisture in ppm
 7. Bushing Test
 - a. Capacitance
 - b. Percent Power factor
 8. OLCT Test
 - a. Tap Check/Ripple Test (Per Phase)
 9. Calibration of Monitoring Device
 - B. Power Circuit Breaker
 1. Insulation Resistance
 2. Contact Resistance
 3. Timing
 4. SF6 Gas (Moisture and Purity)
 5. Oil for OCB (DBV, IPF, Color)
 - C. Three (3) units Current Transformer
 1. Insulation Resistance
 2. Insulation Power factor
 3. Ratio and Phase Deviation
 4. Excitation/Saturation (Full Tap)
 - D. Three (3) units Potential Transformer
 1. Insulation Resistance
 2. Insulation Power factor
 3. Ratio and Phase Deviation
 - E. Three (3) Units Lightning Arrester
 1. Insulation Resistance
 2. Insulation Power Factor
 - F. Disconnect Switch
 1. Insulation Resistance
 2. Contact Resistance
 - G. LBS Cut-out
 1. Insulation Resistance
 2. Contact Resistance
 - H. Service Transformer

1. Insulation Resistance
2. Winding Resistance
3. Turn Ratio
- I. Power Cable
 1. Insulation Resistance
 2. Hi--pot
- J. Two (5) Units Vacuum Circuit Breaker
 1. Insulation Resistance
 2. Contact Resistance
 3. Functionality Test
- K. Three (3) Sets Current Transformer (MVSG)
 1. Insulation Resistance
 2. Turn Ratio
- L. One (1) Set Potential Transformer
 1. Insulation Resistance
 2. Turn Ratio
- M. Protection Relay* (Main & Feeder Relay – 6 Unit)
 1. Protective Relay Test
 - a. Overcurrent Setting
 - b. Minimum Pick-up
 - c. Time-Element Operating Time Characteristic
 - d. Relay Operating Parameters
 2. Metering Test
 3. Functionality Test/Simulation
- N. Earth Grounding
 1. Insulation Resistance

Instructions:

SEALED BID proposal shall be submitted to the **Office of the GM – attention Chairman, BAC CANORECO Office** *not later than 5:00 p.m. of March 22, 2024* with label at front as **proposal for BID Form No. 2024-055**. It shall be opened on *March 25, 2024* unless rescheduled for valid reason.

1. **All quotations should be within the price range stated in the 2023 NEA Materials Price Index.**
2. All quotations must be **SEALED** and shall have at least **one (1) month validity** from the date of submission of quotation.
3. With available stocks ready for immediately delivery.
4. **Kindly specify vital details of your quotation including brand, specifications terms of payment, delivery period, validity of proposal and warranty.**
5. All bids shall be confirmed by the Bids and Awards Committee.
6. All aspects of the bidding process shall be based entirely on the NEA's Procurement Guidelines and Simplified Bidding Procedures for Electric Cooperatives (IRR of RA 10531).
7. The Camarines Norte Electric Cooperative, Inc. reserves the right to accept or reject any bid, to cancel the bidding process and to reject all bids at any time prior to contract award, without thereby incurring any liability to the affected bidders.
8. For other details and concerns, please inquire in person at the Main Office of Camarines Norte Electric Cooperative, Inc. Talisay, Camarines Norte or you may send an e-mail at canoreco_bac1975@yahoo.com.ph

Issued by:

GEDDIE C. ORCALES
BAC Chairman

Noted:

ZANDRO R. GESTIADA
General Manager