



NEECO II AREA 1

NUEVA ECIJA II ELECTRIC
COOPERATIVE, INC. – AREA I
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NEECO II-AREA 1's Invitation for Bid No. NE-II-A1-2021-S03

Reference with Board Resolution No. 02-11-21, Series of 2021, the Nueva Ecija II Electric Cooperative-Area 1 (NEECO II-Area 1) invites sealed Bids/Quotations from eligible service providers/bidders for the **Rehabilitation/Reconditioning of 10MVA Power Transformer at Guimba Substation with the following scope of works:**

1.0 SCOPE OF SUPPLY

Supply of components and commissioning of 10MVA Power Transformer containing the following:

- 1 x Pressure Relief Device
- 1 x Oil Temperature Indicator
- 5 x Cooling Fan
- 1 x Control Cabinet
- 3 x Transformer Oil (Drum)
- 1 lot Cork Gasket

Note: Secondary Bushing will provide by the owner.

2.0 SCOPE OF WORK

2.1 Reconditioning and Installation

Conduct Initial Test

- a. Repair of Radiator Leak
- b. Repair of On-load Tap Changer (optional)
- c. Repair of Buchholz Relay
- d. Repair of Oil Level Indicator
- e. Regasketing
- f. Baking
- g. Leak Testing using Nitrogen Gas
- h. Oil Purification
- i. Filling of Transformer Oil Topping up
- j. Repainting of Transformer body, Conservator and Radiator
- k. Conduct Final Test
- l. Submit Test Report

2.2 Testing and Commissioning

I. Visual and Mechanical Inspection:

1. Compare equipment nameplate data with drawings and specifications.
2. Inspect physical and mechanical condition.
3. Inspect anchorage, alignment and grounding.
4. Inspect neutral point and grounding connections.
5. Verify the insulating material.
6. Verify the bushings are clean.
7. Verify that alarm, control, and trip settings on temperature and level indicators are as specified.
8. Verify operation of alarm, control, and trip circuits from temperature and level indicators, pressure relief device, gas accumulator and fault pressure relay.
9. Verify that cooling fans operate correctly and have appropriate overcurrent protection if applicable.
10. Inspect bolted electrical connections.
11. Verify tightness of accessible bolted electrical connections by torque-wrench.
12. Verify correct liquid level in main tank and OLTC conservator and bushings.
13. Verify that positive pressure is maintained on gas – blanketed transformers.
14. Perform inspections and mechanical tests.

II. Test Values:

- Compare bolted connection resistance values to values of similar connections. Investigate values which deviate from those of similar bolted connections by more than 50 percent of the lowest value.

- Minimum insulation – resistance values of transformer insulation shall be in accordance with manufacturer’s published data. Values of insulation resistance less than this table or manufacturer’s recommendations should be investigated. The polarization index shall not be less than 1.0.
- Turns – ratio test results shall not deviate by more than 0.50 percent from the calculated ratio.
- Maximum winding insulation power – factor/dissipation – factor values of liquid – filled transformers shall be in accordance with the manufacturer’s published data. Investigate bushing power – factor and capacitance values that vary from nameplate values by more than ten percent. Hot – collar tests are evaluated on a milliampere/milliwatt loss basis, and the result should be compared to values of similar bushings.
- Temperature corrected winding – resistance values shall compare within one (1) percent of previously obtained results.

Interested bidders may be previously accredited and/or for those interested bidders who may want to participate can be accredited upon submission of Accreditation requirements and full payment of non-refundable accreditation fee of Php5,000.00 which is valid for one (1) year. List of Accreditation requirements may be viewed in NEECO II-Area 1’s official website: www.neeco2area1.com.

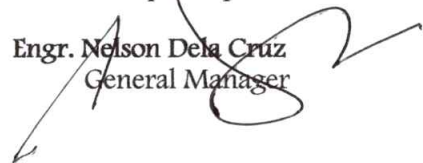
Interested service providers/bidders may send the quotation thru courier services or email on or before March 1, 2021 at 5PM. Further, bidders may conduct actual/on-site inspections on February 23 to 26, 2021.

For further inquiries, please contact Ms. Set Pauline M. Feliciano at (044) 411-1007 local 110 or email at bac_neeco2area1@yahoo.com.ph

NEECO II-AREA1 hereby reserves the right to reject any or all bids, to waive any formality or technicality defects therein, and accept the bid that is most advantageous to the NEECO II AREA-1, and to annul the bidding process and not award the contract at any time prior to contract award without incurring any liability to any bidder or party.

Finally, NEECO II –AREA 1 assumes no obligation to compensate any bidder or any party for any loss or expense incurred in the preparation of the bid or participation in the bidding process.


Engr. Jeffrey Cudapas
BAC Chairman


Engr. Nelson Dela Cruz
General Manager