



**QUEZON I ELECTRIC COOPERATIVE, INC.**

Brgy. Pocol, Pitogo, Quezon  
Telefax: 042-318-8156

**ISC-2023-007**

**INVITATION FOR SEALED CANVASS**

**March 1, 2023**

Sealed Bids/Proposals/Quotations for the Supply and Delivery of the following item for QUEZELCO 1 shall be received by the Bids and Awards Committee until 5:00PM of March 06, 2023. The bids/proposals/quotations will be open on March 07, 2023 at 9:00AM.

Quantity	Unit	Item Description	Unit Cost (Php)	Total Amount (Php)
25,000	mtrs	Duplex Wire #6		
5,000	pcs.	Compression Connector #6		
5,000	pcs.	Service Grip #6		
750	mtrs	Copper Wire, THHN No. 10(5.5mm <sup>2</sup> )		
900	mtrs	Copper Wire, THHN No. 12(3.5mm <sup>2</sup> )		
900	mtrs	Copper Wire, THHN No. 14(2.0mm <sup>2</sup> )		
500	pcs.	Electrical Tape		
250	pcs.	Double Arming Bolt 3/2"		
100	pcs.	Square Washer		
1,500	pcs.	Meter Base Cover or Cap (Treaded) for clustering		
<b>GRAND TOTAL</b>				

**Instruction to Bidder and Terms of Condition:**

The following shall be included in the offer:

1. Warranty statement. The bidder obligates, guarantees and warrants that the items to be delivered is within the standards and specification set by the cooperative. Warranty shall be at least 1 year. Longer warranty period will be considered in the evaluation.
2. Brochure or any document showing the technical specifications of the materials offered.
3. Authorization from the manufacturer to Supply the goods valid for the current year.
4. The materials offered shall comply with the required specification (See attached)
5. Delivery period shall be within forty five (45)calendar days after receipt of Notice to Proceed.
6. The financial offer shall be listed on the space provided above.
7. The financial offer shall not exceed the total Approved Budget Cost of **Php 1,366,135.00**
8. The ABC is VAT inclusive and the bid price should be VAT inclusive.
9. Term of payment – 90 calendar days upon complete delivery.
10. Term of Delivery – FOB Pitogo.
11. Performance Bond of 5% of contracted price shall be posted within 5 days upon receipt of notice of award.
12. Price validity - 60 calendar days
13. Penalty Clause – 1/10 of 1% (0.1%)of the cost of the unperformed portion of the contract for every day of delay)

**Additional Instructions:**


1. Please send your quotations thru email using the designated BAC email address **quezelco1\_bac@yahoo.com.ph** and shall be addressed to "The Bids and Awards Committee".
2. The subject shall bear the word "**Bids for the Supply and Delivery of Hardware and Conductors for Metering Division for the 1st Qtr. of 2023**"
3. The quotation shall be password protected. Password shall be sent on the day of opening (8:00 am).  
QUEZELCO 1 reserves the right to reject any or shall bids without offering any reason, waive any defect therein and accept the offer most advantageous to the cooperative.

For further inquiries you may contact our QUEZELCO 1 BAC Secretariat, Ms. Maria Teresa Caraig and Ms. LovelyJean Baldoz at QUEZELCO 1 Brgy. Pocol, Pitogo, Quezon with mobile numbers 09688520659.

Noted by:

**VICTOR R. CADA**

Acting General Manager

  
**RODERSAN B. PONCE**  
BAC – Chairman

## MATERIAL SPECIFICATIONS

# CONDUCTORS

Any brand with physical characteristics as follows and must conform with any of the following standards:

- a. ASTM - American Society for Testing Materials
- b. ANSI - American National Standard Institute
- c. NEMA - National Electrical Manufacturer's Association
- d. PNS - Philippine National Standard
- e. IEC - International Electrotechnical Commission

*For Bare and Insulated Conductors*

Size (AWG or MCM)	STRANDS No. & Size (inches)		Overall Diameter: (inches)	DC Resistance @ 25°C (ohms/mile)	Ultimate Strength (pounds)	Insulation Thickness (mils)
	Aluminum	Steel				
6	6 x .0661	1 x .0661	0.198	3.560	1,170	45
4	6 x .0834	1 x .0834	0.250	2.240	1,830	45
2	6 x .1092	1 x .1092	0.316	1.410	2,790	45
1/0	6 x .1327	1 x .1327	0.398	0.885	4,280	60
2/0	6 x .1490	1 x .1490	0.447	0.702	5,345	60
3/0	6 x .1672	1 x .1672	0.502	0.556	6,675	60
4/0	6 x .1878	1 x .1878	0.563	0.441	8,420	60

Prepared by:



ENGR. MIKE JAY A. DE ROXAS  
PDS Head

Checked by:



ENGR. GERALD P. BAUTISTA  
ED Manager



## MATERIAL SPECIFICATIONS

### LINE HARDWARES

1. **ALL HARDWARES AND CROSSARMS** must be hot-dipped galvanized and must conform with all of the following applicable standard;
  - a. ASTM – American Society for Testing Material
  - b. ANSI – American National Standard Institute
  - c. AISI – American Iron and Steel Institute
  
2. **INSULATORS** for 13.2/7.62-0.23kV Distribution System

Pin Type Insulator				
ANSI Class	55-3	55-5	56-1	56-2
Min. Pin Diameter, mm	121	178	191	229
Min. Pin Height, mm	95	124	146	165
Min. Saddle Groove Radius, mm	19	25.4	19	19
Min. Wire Groove Radius, mm	14	14.3	14	14
Nominal Voltage, kV	10	15	10	10
Leakage Distance, mm	178	305	330	432
Dry Arcing Distance	114	159	178	210
Cantilever Strength, kN	11.1	13.3	11	13.2
Power Frequency Dry Flashover Voltage, kV	55	80	95	110
Power Frequency Wet Flashover Voltage, kV	30	45	60	70
Test Voltage to Ground	10	15	15	22

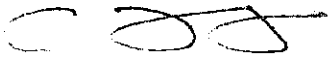
Suspension Insulator		
ANSI Class	52-1	
Shell Diameter, mm	152	
Nominal Voltage, kV	10	
Leakage Distance, mm	178	
Combined M&E Strength, kN	44	
Tension Proof Load, kN	22	
Low Frequency Flashover Voltage, kV	Dry	60
	Wet	30
Critical Impulse Flashover Voltage, kV	Positive	100
	Negative	100
Test Voltage to Ground, kV	10	

Speci Insulator			
ANSI Class	53-1	53-2	53-3
Diameter, mm	57	79	76
Height, mm	54	76	81
Neck Diameter, mm	45	45	45
Wire Groove Radius, mm	11	18	11
Transverse Strength, kN	3.9	13.3	17.8
Power Frequency Dry Flashover Voltage, kV	20	25	25
Power Frequency Wet Flashover Voltage, Vertical, kV	8	12	12
Power Frequency Dry Flashover Voltage, Horizontal, kV	10	15	15

3. CONCRETE ANCHOR BLOCK:

Length		Min. Break Load kgs.	Outside Diameter		Wall Thickness mm.	Weight (approx.) kgs.
Meter	Feet (approx.)		mm.	inches (approx.)		
0.90	3	4,000	150	6	42	30
1.20	4	5,000	200	8	42	60

Prepared by:



ENGR. MIKE JAY A. DE ROXAS  
PDS Head

Approved by:



ENGR. GERALD P. BAUTISTA  
ED Manager

# Material Specifications

## Copper Wire

USAWC PART #	SIZE AWG OR KCMIL	NO.OF STRANDS	THICKNESS IN MILS		FINAL DIAMETER (mm)	FINAL DIAMETER (INCHES)	NEC AMPACITY		Approx. Wt. lbs/feet	
			PVC INSULATION	NYLON JACKET			75°C THWN	90°C THHN	Net	Copper
<b>Stranded (MTW or THWN or THHN)</b>										
14-01THHN	14	19	15	4	3.5	0.112	20	25	16	12
12-01THHN	12	19	15	4	2	0.13	25	30	24	18
10-01THHN	10	19	20	4	5.5	0.164	35	40	38	32

**Prepared by:**

  
**ENGR. DAVE MARK BENGUA**  
*Meter Rehab Head*

**Checked by:**

  
**ENGR. GERALD BAUTISTA**  
*ED-Manager*

Overview   Reviews   **Product Details**   Recommendations

## Specifications

Brand,Material,etc >

## Description

On-Hand and Ready to Ship

- Message us for inquiries!

Estimated shipping time within Metro Manila is 2-4 days after pick-up (depending on courier schedule)

Schedule 40 geavy duty galvanized iron plug, fits any regular threaded waterline fittings in the Philippine market. Install with teflon tape to prevent leakage.

#LM UC CU KM YM IM

