

Schedule of Requirements

ITEM NO.	DESCRIPTION	DEADLINE
1 lot	Aluminum Conductor Steel Reinforced cable (ACSR) 1/0	Thirty (30) calendar days upon receipt of Notice of Award (NOA).
	40 feet Concrete Pole	
	Hardware and Tools	

Bidder's Authorized Representative:

Signature over Printed Name

Principal Bidder / Supplier

Section VII. Technical Specifications

- I. Terms of Reference / Approved Technical Specifications
- II. Technical Specifications Compliance Form

***** PLEASE SEE ATTACHED**



TERMS OF REFERENCE

Bidding for the Supply and Delivery of Construction Tools and Materials For the Rehabilitation of Primary Electrical Lines at the Bataan Technology Park in Morong Bataan

1. BACKGROUND

The Bases Conversion and Development Authority (BCDA) is a government instrumentality vested with corporate powers under Republic Act (RA) 7227 (Bases Conversion and Development Act of 1992), as amended by RA 7917, and further amended by RA 9400. Its mandate is to convert former US military base lands and Metro Manila camps into productive civilian economic growth centers consistent with the thrust to generate business opportunities, jobs and economic activities.

Since its creation in 1992, the BCDA has remained at the forefront of development efforts in the country. It has proven to be one of the most successful government agencies in attracting investments, creating jobs for the Filipino people and boosting the Philippine economy.

The BCDA, intends to rehabilitate the primary electrical lines at the Bataan Technology Park (BTP) in Morong Bataan. The BTP is a 365-hectare property of the BCDA, proclaimed as the Main Zone of the Morong Special Economic Zone (MSEZ) in March 1997. To date, the Park maintains its identity as a "histro-cultural", educational destination, owing to its rich history as the former PRPC, where the Philippines and its people played its humanitarian role as host to some 400,000 refugees from Vietnam, Laos and Cambodia during the Vietnam War in the 70's. The power inside BTP is presently being supplied by the Peninsula Electric Cooperative, Inc. (PENELCO) but the maintenance of the electrical line inside the zone is being handled by BCDA, being the owner of the land.

To attract more investors inside the zone, the rehabilitation of the electrical line, among others, shall be implemented.

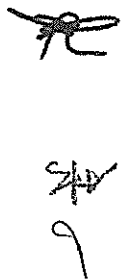
2. OBJECTIVE

This Terms of reference aims to ensure that the highest quality service will be delivered by the winning bidder in relation to the supply and delivery of construction tools and materials for the rehabilitation of primary electrical lines at the BTP in Morong Bataan.

3. SCOPE AND RESPONSIBILITIES

3.1 Scope and Responsibilities of the Bidder

- 3.1.1 Cause the signing of the approve Purchase Order (PO) by the authorized representative of the company
- 3.1.2 Deliver the goods within the agreed date of delivery.
- 3.1.3 Submit the original copy of the PO supported by Delivery Receipt and Safes Invoice for the processing of payment
- 3.1.4 Provide warranty on the supplied tools



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3.2 Scope and Responsibilities of BCDA

- 3.2.1 Acknowledge receipt of goods delivered, if found in accordance with the technical specifications.
- 3.2.2 Pay the supplier in accordance with item 6 of this TOR.
- 3.2.3 Facilitate the issuance of permits and gate pass whenever necessary.

4. PROJECT LOCATION

The construction tools and materials shall be delivered at the Bataan Technology Park, Barangay Sabang, Morong Bataan.

5. TECHNICAL REQUIREMENTS

Item	Parameters/Technical Specifications
3 Aluminum Conductor Steel Reinforced cable (ACSR) 1/0	The ACSR conductors shall be classified as Class A as designated in American Society for testing and materials B232.
	The conductor shall be free of imperfections, sharp protrusions and blemishes not consistent with good commercial practice.
	The steel wire shall be fabricated from steel obtained by the open-hearth, electric furnace, of basic oxygen process and conforms to the chemical composition specified in Section 3 of ASTM B498
	The steel wire shall be tested in accordance with Section 5, 6 and 10 of ASTM B498.
	The steel wire shall be coated with zinc to Class A requirement with coating weight described in Table 4 of ASTM B498.
	The round aluminum wire shall be drawn from rods that conform to the chemical requirement of Table 2, ASTM B230.
	The rated strength shall be the aggregate strength of the steel and aluminum wires determined by the methods described in Section 9.1 of ASTM B232.
	The weight and electrical resistance of the stranded conductor shall be determined by the methods described in Section 11 of ASTM B233.
40 feet Concrete Pole	Class 3
	Minimum Break Load 1400 kg
HARDWARE	
Bolt, Thimble Eye 5/8 X 10"	All hardware / materials shall meet the performance requirements application criteria and manufacturing tolerances passed on the following standards and other applicable standards: (1) ANSI C B5. 1-1979 American National Standard for Galvanized Steel bolts and nuts for overhead line construction.
Bolt, Single Upset 5/8 X 10"	
Bolt, Oval Eye 5/8" X 12"	
Bolt, Double Arming 5/8 X 20"	
Bolt, Carriage 3/8 X 4 1/2"	
Bolt, Machine 5/8" X 8"	
Bolt, Machine 5/8" X 10"	
Bolt Machine 5/8" X 12"	

Bolt Machine 5/8" X 14"	(2) ANSI C135. 31-1980 American National Standard for Galvanized ferrous Single and Double Upset Spool Insulator bolts for Overhead line Construction
Bolt Machine 1/2 X 10"	
Angle Bracket Secondary	
Clamp Hot Line Connector	(3) ANSI C29.3-1986 American National Standard for Wet-process porcelain insulator (Spool type)
Clamp Loop Deadend 2/0	
Clamp Strain Deadend	
Grip, Guy, 3/8", 7W	(4) ASTM A663-82 Standard Specification for steel bars, carbon, merchant quality, mechanical properties.
Clevis Secondary Swinging	
Connector, Compression #1/0-#2/0 ACSR Run to #1/0-#2/0	(5) ASTM A675-82 Standard Specification for steel bars, carbon, hot wrought, special quality, mechanical properties.
Clamp Ground Rod 5/8	
Cut-Out Arrester Combination, Class 100, 15KV	(6) ASTM A570-79 Standard Specification for hot-rolled, carbon, steel sheet and strip, structural quality
Insulator Pin Type 5 - 1/2"	
Insulator Spool, 1-3/4"	
Insulator Spool, 3"	
Insulator Suspension 6"	
Nut, Eye, 5/8" Conventional	
Pin Pole Top 20" : Long	
Anchor Block	
Anchor Rod 5/8" X 7	
Rod, Ground 5/8" X 10" - 0"	
Round Washer 1/2	
Washer Square 2-1/4" X 2-1/4" X 3/16"	
Washer Square 4" X 4" X 1/2" W/ 13/16 Dia.	
Wire, Guy, Steel, 3/8", 7 Strand	
Steel Pin 5/8" X 10 3/4"	
Steel Brace 28"	
Alley Arm Brace 7ft.	
Pole Clamp	
Anchor Shackle	
Suspension Clamp	
Cross Arm Steel 3 1/2 X 4 1/2 X 8	
Transformer Cluster Hanger, 3 Phase, Universal Type	
TOOLS	
Lineman Pole Climber	Heavy duty
Hole Digger 8"ft.	Heavy duty
Lineman Elexterical Plier 9 Inches	Heavy duty
Compression Connector 2/0 - 1/0	Heavy duty
Wire Grip 2/0	Heavy duty

6. PAYMENT TERMS AND CONDITIONS

In consideration of the services required under this TOR, payment to the winning Bidder shall be made based on complete delivery of the construction tools and materials subject to the usual auditing and accounting procedures.

7. DELIVERY PERIOD

The delivery of the items being procured shall be within thirty (30) calendar days upon receipt of Notice of Award (NOA).

8. APPROVED BUDGET FOR THE CONTRACT (ABC)

Five Million Nine Hundred Twenty One Thousand Pesos and 00/100 (Php5,921,000.00) inclusive of VAT and all other applicable government taxes, chargeable to the 2018 approved budget of the General Services Department under Repair and Maintenance of BTP.

9. TERMINATION


BCDA reserves the right to terminate the Agreement/Purchase Order entered into by BCDA and the prospective contractor for any violation of this TOR and any other ground authorized by law by serving a ten-day written notice to the prospective contractor and without any liability accruing to BCDA.

10. Any attempt by the bidder to influence the BAC or its authorized representatives in the evaluation of the bids or contract award decisions shall result in the rejection of its bid or revocation of award as the case may be, and the application of other sanctions and remedies provided by law.

Prepared by: _____


EDUARDO R. ROSQUETA
BTP Operations and Maintenance Head

Recommended by: _____


AILEEN AN. R. ZOSA
Executive Vice President

Approved by: _____


VIVENCIO B. DIZON
President and CEO





TECHNICAL SPECIFICATIONS COMPLIANCE FORM

Bidders must indicate whether the merchandise offered is "Compliant" or "Non-Compliant" to the corresponding specifications prescribed by BCDA using this form.

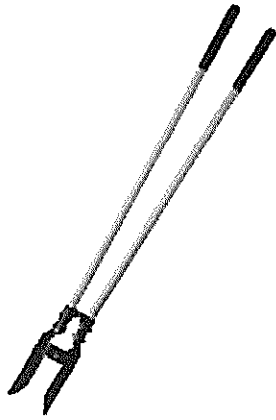
Item	Parameters/Specifications	Statement of Compliance	
		Compliant	Non-compliant
Aluminum Conductor Steel Reinforced cable (ACSR) 1/0	The ACSR conductors shall be classified as Class A as designated in American Society for testing and materials B232.		
	The conductor shall be free of imperfections, sharp protrusions and blemishes not consistent with good commercial practice.		
	The steel wire shall be fabricated from steel obtained by the open-hearth, electric furnace, of basic oxygen process and conforms to the chemical composition specified in Section 3 of ASTM B498		
	The steel wire shall be tested in accordance with Section 5, 6 and 10 of ASTM B498.		
	The steel wire shall be coated with zinc to Class A requirement with coating weight described in Table 4 of ASTM B498.		
	The round aluminum wire shall be drawn from rods that conform to the chemical requirement of Table 2, ASTM B230.		
	The rated strength shall be the aggregate strength of the steel and aluminum wires determined by the methods described in Section 9.1 of ASTM B232.		
	The weight and electrical resistance of the stranded conductor shall be determined by the methods described in Section 11 of ASTM B233.		
40 feet Concrete Pole	Class 3, Minimum Load Break 1400 kg		
HARDWARE			
Bolt, Thimble Eye 5/8 X 10"	<p>All line hardwares / materials shall meet the performance requirements application criteria and manufacturing tolerances passed on the following standards and other applicable standards:</p> <p>(1) ANSI C B5. 1-1979 American National Standard for Galvanized Steel bolts and nuts for overhead line construction.</p> <p>(2) ANSI C135. 31-1980 American National Standard for Galvanized ferrous Single and Double Upset Spool Insulator bolts for Overhead line Construction</p>		
Bolt, Single Upset 5/8 X 10"			
Bolt, Oval Eye 5/8" X 12"			
Bolt, Double Arming 5/8 X 20"			
Bolt, Carriage 3/8 X 4 1/2"			
Bolt, Machine 5/8" X 8"			
Bolt, Machine 5/8" X 10"			
Bolt Machine 5/8" X 12"			
Bolt Machine 5/8" X 14"			
Bolt Machine 1/2 X 10"			
Angle Bracket Secondary			
Clamp Hot Line Connector			
Clamp Loop Deadend 2/0			
Clamp Strain Deadend			
Grip, Guy, 3/8", 7W			
Clevis Secondary Swinging			
Connector, Compression #1/0-#2/0			
ACSR Run to #1/0-#2/0			
Clamp Ground Rod 5/8			
Cut-Out Arrester Combination, Class 100, 15KV			
Insulator Pin Type 5 - 1/2"			

Insulator Spool, 1-3/4"	(3) ANSI C29.3-1986 American National Standard for Wet-process porcelain insulator (Spool type) (4) ASTM A663-82 Standard Specification for steel bars, carbon, merchant quality, mechanical properties. (5) ASTM A675-82 Standard Specification for steel bars, carbon, hot wrought, special quality, mechanical properties. (6) ASTM A570-79 Standard Specification for hot-rolled, carbon, steel sheet and strip, structural quality		
Insulator Spool, 3"			
Insulator Suspension 6"			
Nut, Eye, 5/8" Conventional			
Pin Pole Top 20" : Long			
Anchor Block			
Anchor Rod 5/8" X 7			
Rod, Ground 5/8" X 10" - 0"			
Round Washer 1/2			
Washer Square 2-1/4" X 2-1/4" X 3/16"			
Washer Square 4" X 4" X 1/2" W/ 13/16 Dia.			
Wire, Guy, Steel, 3/8", 7 Strand			
Steel Pin 5/8" X 10 3/4"			
Steel Brace 28"			
Alley Arm Brace 7ft.			
Pole Clamp			
Anchor Shackle			
Suspension Clamp			
Cross Arm Steel 3 1/2 X 4 1/2 X 8			
Transformer Cluster Hanger, 3 Phase, Universal Type			
TOOLS			
Lineman Pole Climber	Heavy duty		
Hole Digger 8"ft.	Heavy duty		
Lineman Elexcterical Plier 9 inches	Heavy duty		
Compression Connector 2/0 - 1/0	Heavy duty		
Wire Grip 2/0			
DELIVERY PERIOD	thirty (30) calendar days upon receipt of Notice of Award (NOA).		

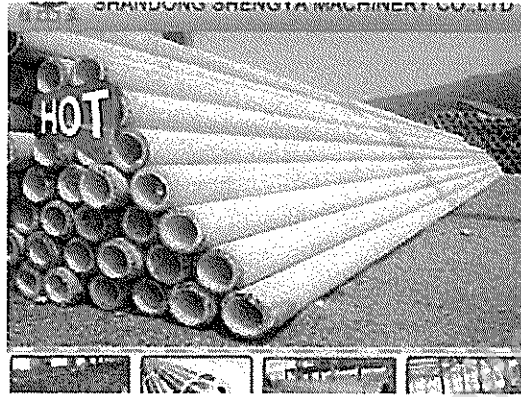
Bidder's Authorized Representative:

Signature over Printed name

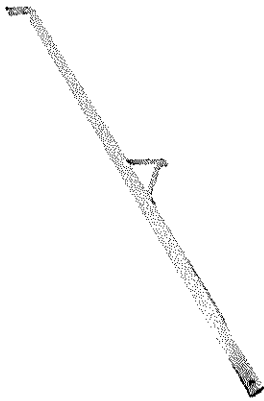
Principal Bidder/Supplier



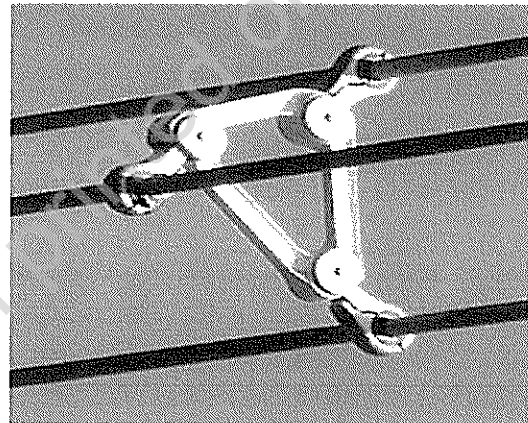
HOLE DIGGER 8ft.



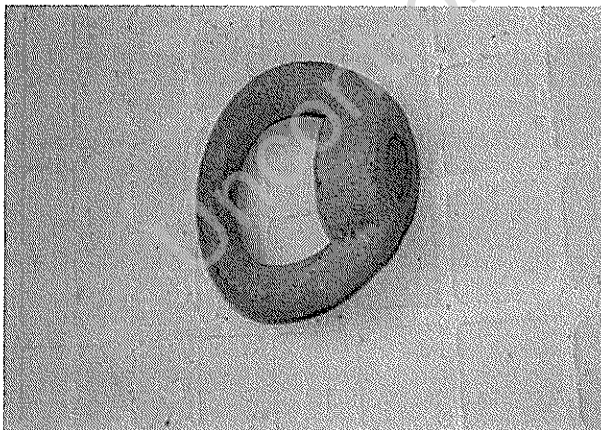
CONCRETE POLE 40ft.



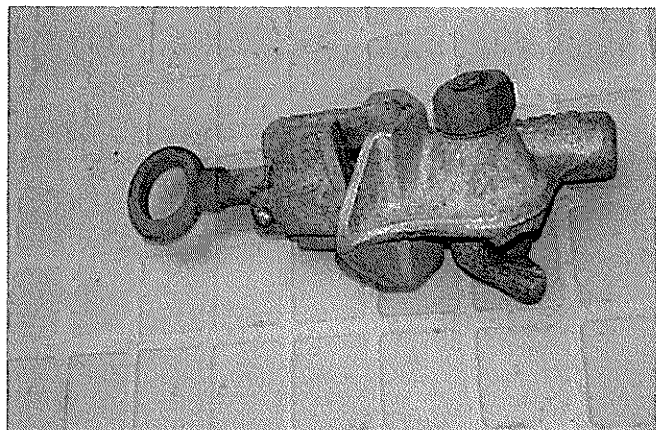
ALLEY ARM BRACE 7ft.



SUSPENSION CLAMP

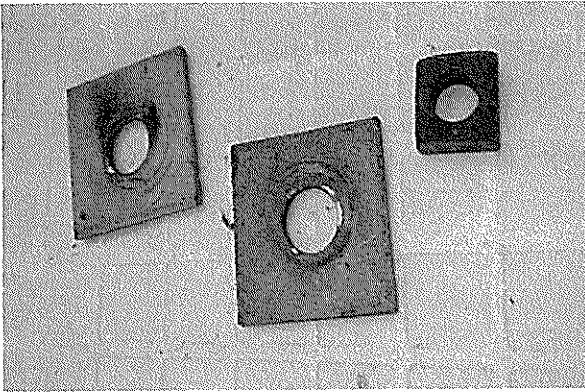


Nut, Eye, 5/8" Conventional

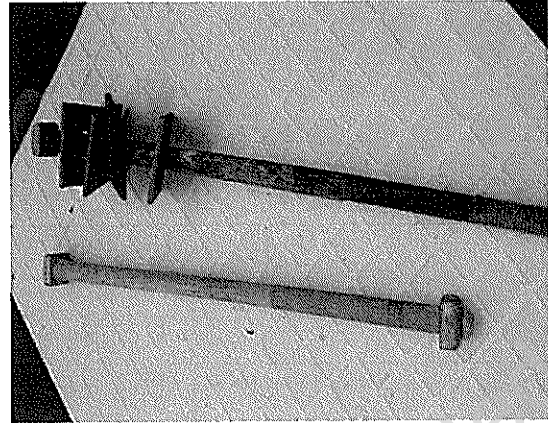


Clamp Hot Line Connector

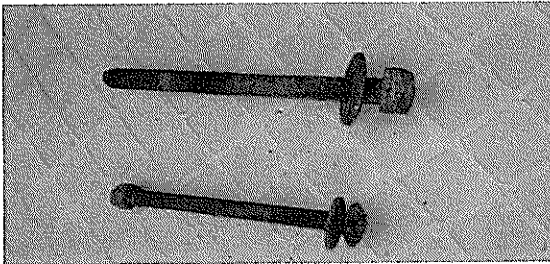
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Washer Square 2-1/4" x 2-1/4" x 3/16"
 Washer Square 4"x4"x1/2" W/ 13/16 dia.



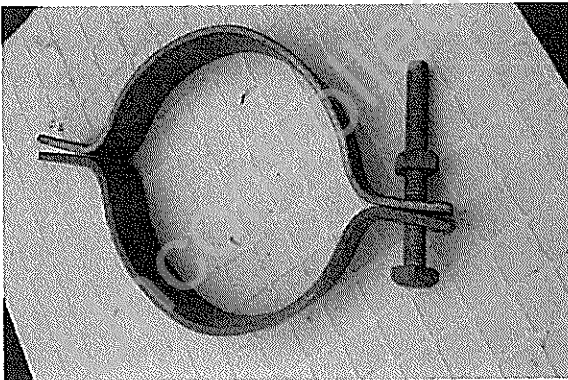
B. Machine Double Arming 5/8"x20"
 B. Machine 5/8"x8"
 B. Machine 5/8"x10"
 B. Machine 5/8"x12
 B. Machine 5/8"x14"



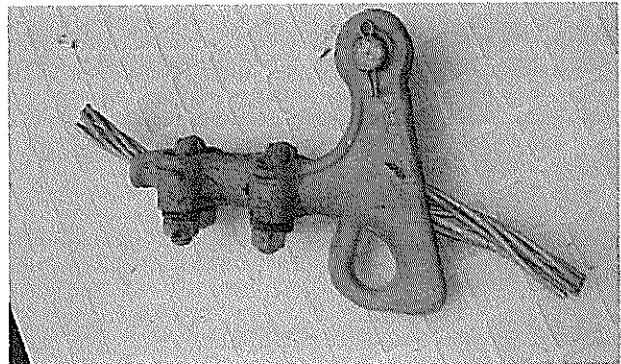
B. Carriage 3/8"x4 1/2"



Insulator Spool 1 3/4"
 Insulator Spool 3"



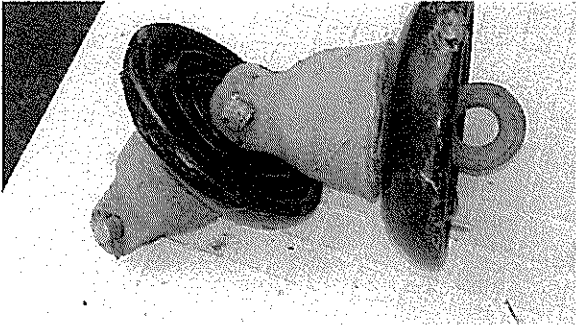
Pole Clamp



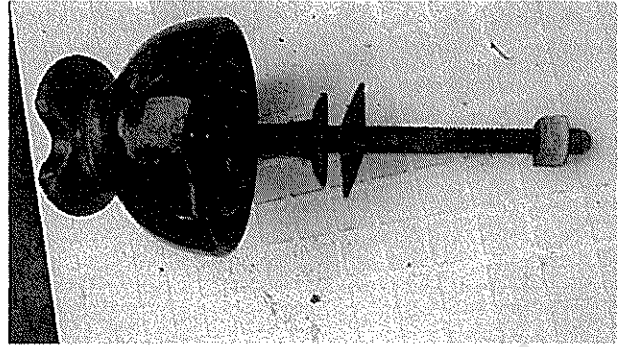
Clamp Strain Deadend

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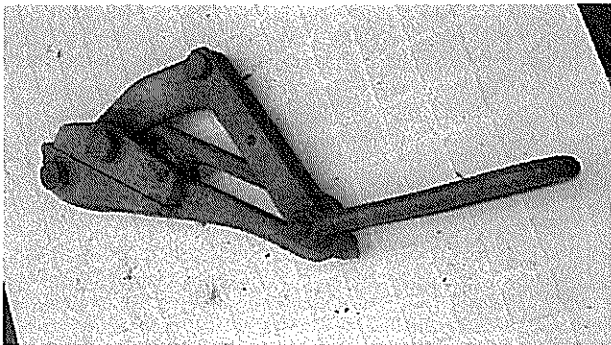
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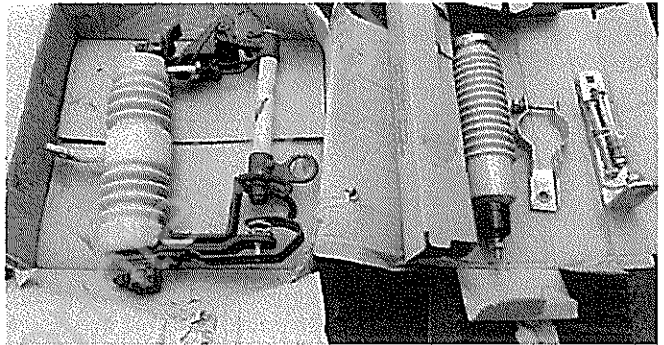
Insulator Suspension 6"



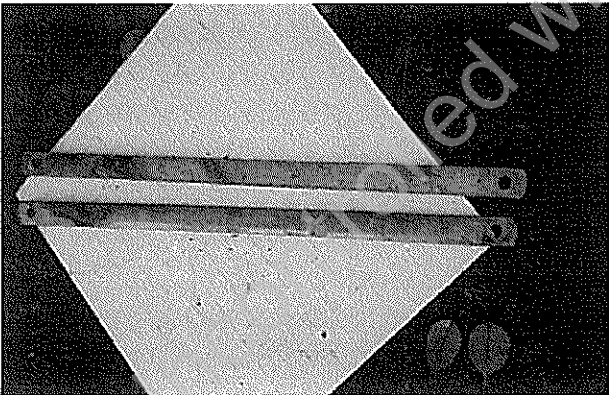
Insulator Pin Type 5-1/2" & Steel Pin 5/8" x 10 3/4"



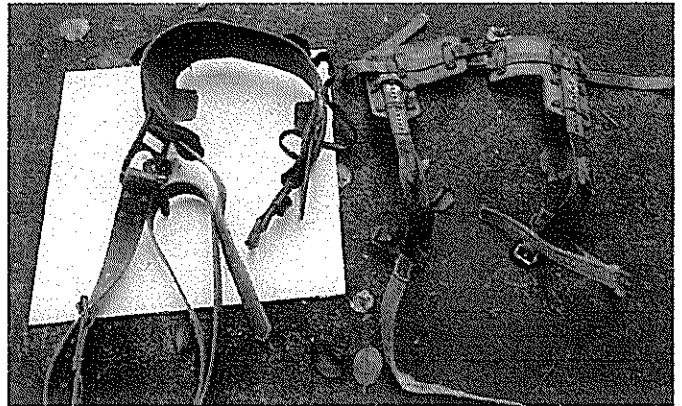
Wire Grip 2/0



Cut-Out Arrester Combination, Class 100, 15KV



Steel Brace 28"



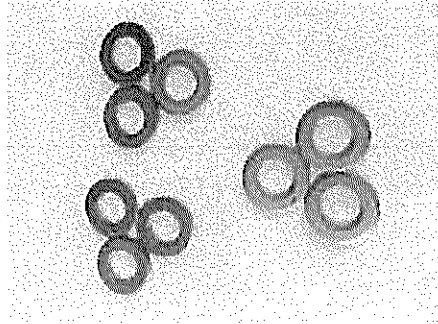
Lineman Pole Climber

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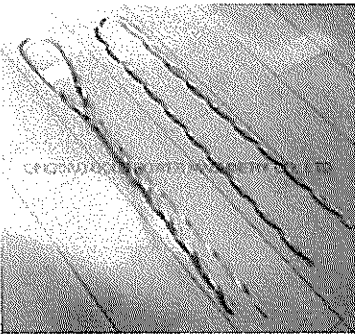
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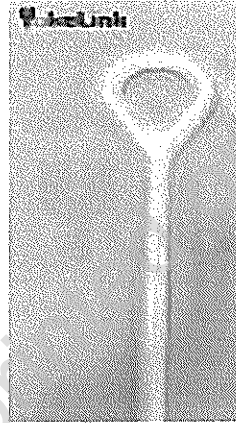
ACSR 1/0



Round Washer 1/2"



Grip Guy, 3/8", 7W



Anchor Rod 5/8"x7"

Connector. Comp. #1/0 #2/0 ACSR, Run to #1/0-#2/0

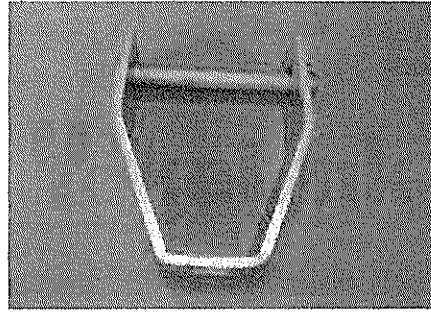
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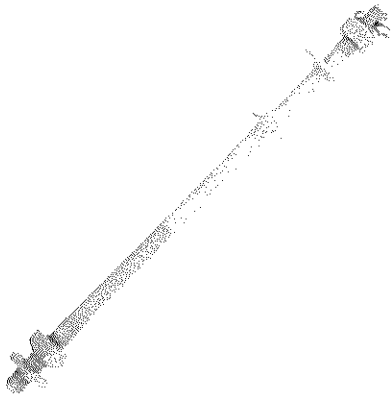
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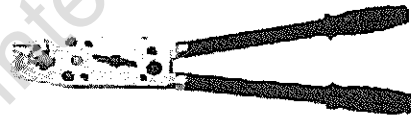
Thimble Eye Bolt 5/8"x10"



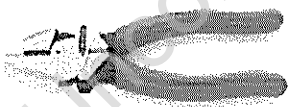
Angle Bracket Secondary



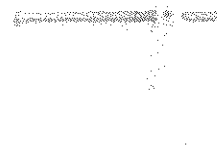
B.S. Upset 5/8"x10"



Compression Connector 2/0-1/0



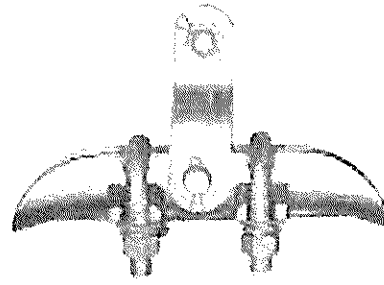
Lineman Electrical Plier 6 inches



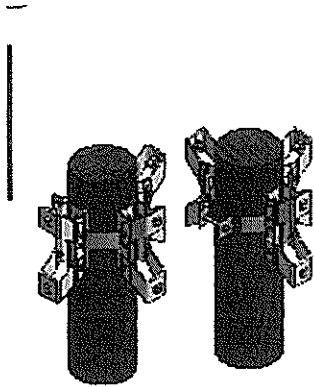
Anchor Block



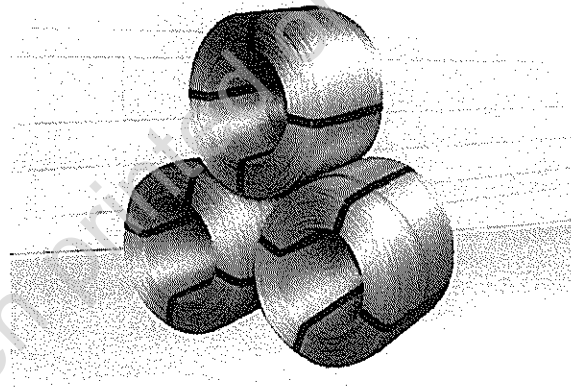
Anchor Shackle



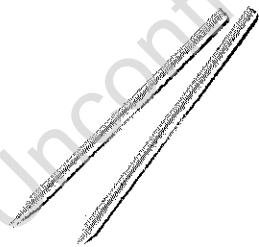
Clevis Secondary Swinging



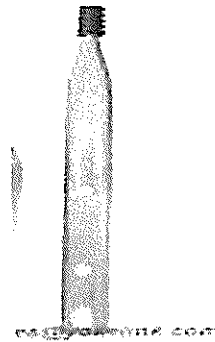
Transformer Cluster Mounts



Wire, Guy, Steel 3/8", 7 strand



Ground Rod 5/8"x10 - 0"

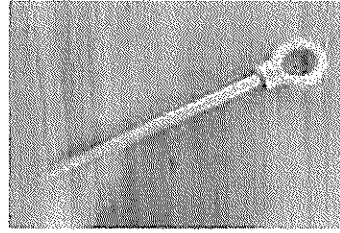


Pin Pole Top 20" Long

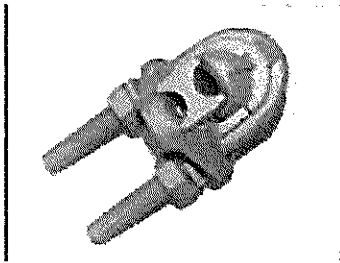
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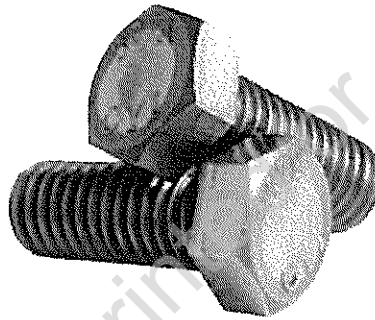
Clamp Ground Rod 5/8"



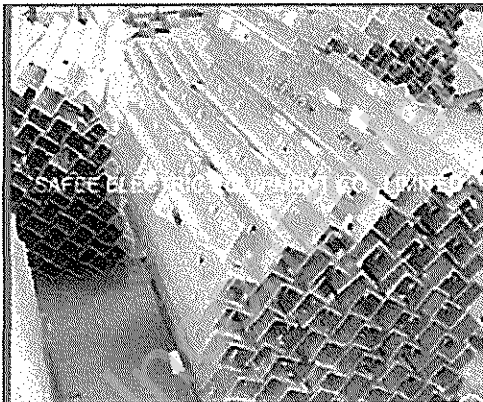
B. Oval Eye 5/8" x 12"



Clamp Loop Deadend 1/0



Machine Bolt 1/2 x 10



Cross Arm Steel 3 1/2 x 4 1/2 x 8

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***Section VIII. Checklist of Requirements
For Bidders***

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Checklist of Requirements for Bidders

"EACH AND EVERY PAGE OF THE BID FORM, INCLUDING THE SCHEDULE OF PRICES, UNDER SECTION IX HEREOF, SHALL BE SIGNED BY THE DULY AUTHORIZED REPRESENTATIVE/S OF THE BIDDER, AND PROPERLY TABBED AS FOLLOWS:"

ELIGIBILITY DOCUMENTS' ENVELOPE
--

- Tab A** PhilGEPS Certificate of Registration under Platinum Membership. **However, per GPPB Circular No. 07-2017, prospective bidders may opt to submit their PhilGEPS Certificate of Registration or their Class "A" Eligibility Documents, or a combination thereof, during the bid submission.*
- Tab B** Notarized Omnibus Sworn Statement/Affidavit of the prospective bidder (of its background, affiliations, responsibilities as Bidder, authorizations, etc.) (*Section IX, Bidding Forms*)
- Tab C** Statement / List of all on-going, and completed government and private contracts, similar in nature to the contract/project subject of the bidding at hand, within at least the past **three (3) years** (December 2015 to December 2018) using the following forms and support documents:
- (FORM SF-GOOD-13a) Statement of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid.
 - (FORM SF-GOOD-13b) Statement / List of at least one (1) **COMPLETED** government and/or private contracts (*Section IX, Bidding Forms*) similar in nature as the contract subject of bidding with a value of at least fifty (50%) of the Approved Budget for the Contract (ABC), supported with the following documents (in accordance to BDS Clause 5.4 of the BDS):
 1. Contract; **AND**
 2. Certificate of Completion or Official Receipt of last payment received
- Tab D** Computation of Net Financial Contracting Capacity (NFCC) in accordance with ITB Clause 5 (*Section IX, Bidding Forms*)
- Tab E** Bid Security (use *Section IX, Bidding Forms* in case of Bid Securing Declaration)
- Tab F** Technical Specifications Compliance Form (Use the supplied Technical Specifications Compliance Form found in the Bid Documents under Section VII)



Tab G Schedule of Requirements (*use Section VI*) duly signed in every page by the principal bidder or the bidder's authorized representative

Tab H Valid Joint Venture Agreement (JVA) in case the joint venture is already in existence. In the absence of a JVA, duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful shall be included in the bid.

Additional documents for Joint Venture:

Further, each partner of the JV shall likewise submit the following requirements consistent with ITB Clause 12.1.(a)(i) and 12.1.(a)(ii):

- 12.1.(a)(i) Registration certificate from the Securities and Exchange Commission (SEC) for corporation, Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for Cooperatives; and
- 12.1.(a)(ii) Valid Mayor's permit issued by the city or municipality where the principal place of business of the prospective bidder is located.

Submission of the following documents consistent with ITB Clause 12.1.(a)(iii) to 12.1.(a)(v) by any of the joint venture partners constitute compliance:

- 12.1.(a)(iii) Statement of ongoing and completed government and/or private contracts within at least the past three (3) years following Tab C above
- 12.1.(a)(iv) Audited Financial Statements for 2017, stamped "Received" by the Bureau of Internal Revenue (BIR) or its duly accredited and authorized institutions; and
- 12.1.(a)(v) Computation of Net Financial Contracting Capacity (NFCC) in accordance with ITB Clause 5.5. ;

FINANCIAL PROPOSAL ENVELOPE

The Financial Component shall contain the following:

Tab I Financial Bid Form (*use Section IX Bidding Forms*)



Section IX. Bidding Forms

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