COVER PAGE

Bid #2217

POLYMER INSULATORS & HARDWARE FOR 138KV TRANSMISSION UPGRADE

Sealed bids and electronic submitted bids for the above will be received until **10:00 AM CDT, Tuesday, December 11, 2018,** and publicly opened in the City of Alexandria Council Chambers or Council Committee Room.

Please file bid by one of the following means:

Hand-Delivered or Express Delivery:

Attention: Donna Jones, City Clerk
City of Alexandria - City Hall
915 Third Street, First Floor
Alexandria, LA 71301
Phone: 318-449-5090

Mailed via USPS:

Attention: Donna Jones, City Clerk
City of Alexandria - City Hall
PO Box 71
Alexandria, LA 71309-0071

Electronic Bid Submission: Central Bidding

Pursuant to Louisiana R.S. 38:2212 B.(6)(a) through E. (1-7) and R.S. 38:2212.1 B.(4)(a), vendors/contractors have the option to submit their bids and bid bonds electronically. Bids and bonds to be filed electronically shall be posted with **Central Bidding** at www.centralauctionhouse.com (phone 1-225-810-4814). Registration will need to be completed prior to posting of bid.

Complete bid specifications are available for viewing and downloading at the City of Alexandria's website **www.cityofalexandriala.com ;** on the left hand side of the opening page, go to the heading *"Business"* then drop down to *"RFP/RFQ/Bids"*; the current bids will be listed for your convenience.

City of Alexandria Buyer Name:	Christine Sims, Senior Buyer
Phone Number:	(318) 441-6183
Fax Number:	(318) 619-3414
E-Mail Address:	christine.sims@cityofalex.com

Christine L. Sims
Acting Purchasing Manager

City of Alexandria

Purchasing Department
P.O. Box 71
Alexandria, Louisiana
71309-0071

Office: (318) 441-6180
Fax: (318) 441-6185

Sealed bids will be received until **10:00 AM CDT, Tuesday, December 11, 2018**, and publicly opened in the Council Chambers or Council Committee Room.

City of Alexandria Bid Proposal **#2217**

Date Specifications Prepared: October 25, 2018

Bid Bond Requirements: A bid bond or check for N/A% of the total amount of bid.

Performance Bond Requirements: In the event bid is accepted, a performance bond shall be required in the amount of N/A%.

Please file bid with the following:
Donna Jones, City Clerk
City of Alexandria - City Hall
915 Third Street
P.O. Box 71
Alexandria, LA 71309-0071
Phone: 318-449-5047

INTRODUCTION

POLYMER INSULATORS & HARDWARE FOR 138 KV TRANSMISSION UPGRADE

It is the intent of the City of Alexandria to secure pricing on **Polymer Suspension Insulators, Full Tension Deadend Kits, Full Tension Splice Kits, Armor-Grip® Suspension (AGS) Unit, Socket Clevis, Machine Bolts, and other hardware items,** for use by the City of Alexandria Electric Distribution Department for the 138 kV Transmission Upgrade project. All bids shall be for materials only. All products shall be new and unused only.

All bid prices shall include any and all freight charges. All products are to be shipped F.O.B., freight prepaid, to the City of Alexandria Electric Distribution Warehouse, to the attention of Henry Jacobs, 1015 N. Third Street, Alexandria, LA 71301, phone 318-473-1353 or 318-473-1349.

Completed bid packet should be returned as issued by the City of Alexandria with ALL PAGES intact and all specification response columns filled in. Incomplete columns or missing pages, to include addendum pages, may result in the bidder's (proposer's) entire bid being rejected.

Questions and/or clarifications of bid specifications are to be in written form only, either mailed, faxed or e-mailed to the attention of Robert Normand, City of Alexandria Electric Distribution Department; PO Box 71, Alexandria, LA 71309-0071; Fax #318-619-3414; e-mail Robert.normand@cityofalex.com ; and must be received by close of business on Thursday, November 29, 2018.

CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:
POLYMER INSULATORS & HARDWARE FOR 138 KV TRANSMISSION UPGRADE

GENERAL CONDITIONS FOR BIDDERS - PLEASE READ CAREFULLY

1. Pursuant to LA R.S 38:2212.1. C.(1)(2), any manufacturer's preference in this proposal is descriptive, but non-restrictive, and is used only to indicate minimum requirement for type, grade and quality unless otherwise specified.

2. Pursuant to LA R.S. 38:2212 B.(1), the provisions and requirement of this bid shall not be considered as informalities and shall not be waived by the City of Alexandria. Therefore, conditions and specifications on this bid form shall be strictly enforced and any and all alterations, deviations, and non-compliance to said conditions and specifications, either on the bid form or by separate attachment, shall be grounds for immediate disqualification.

3. Preference shall be given to bidders quoting F.O.B. Destination (the City of Alexandria using department), FREIGHT PREPAID, unless otherwise requested.

4. Each bidder shall submit his proposal on the proposal form furnished by the City of Alexandria Purchasing Department. The complete bid package must be returned as issued by the City with all pages intact and all specification response columns filled in. Incomplete columns or missing pages, to include addendum pages, shall result in the vendor's entire bid package being rejected.

5. Literature, brochures, and other related paperwork attached to the bid should be identified with the name of the bidder and bid item number.

6. In case of a mathematical discrepancy between unit price and extensions, the unit price shall prevail.

7. Pursuant to LA R.S. 38:2212 F., the bid specifications may contemplate a fixed escalation or de-escalation in accordance with the United States Bureau of Labor Statistic's Consumer Price Index or the Producer Price Index. Bids based on specifications which are subject to a recognized escalation index shall be legal and valid for any item of a public work, at the discretion of the City.

8. Pursuant to LA R.S. 38:2212.1. F., any public procurement unit may participate in a cooperative purchasing agreement with the City of Alexandria to acquire quantities of the above listed items under a contract with the City of Alexandria for items awarded by public bid, pursuant to the cooperative purchasing provisions of Part VII of Chapter 17 of Subtitle III of Title 39 of the Louisiana Revised Statures of 1950, R.S. 39:1701 et seq.

9. The City of Alexandria reserves the right to award by item or by total bid, unless otherwise specified in the bid specifications. (Price(s) should be itemized.)

10. All erasures or corrections on the bid form must be initialed and the City of Alexandria may rely on the apparent authority represented by the initials.

11. The City of Alexandria reserves the right to reject for cause any and all bids or parts of bids, or accept bids most beneficial to the City.

CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:
POLYMER INSULATORS & HARDWARE FOR 138 KV TRANSMISSION UPGRADE

General Conditions for Bidders - Please Read Carefully (Continued)

12. Any bid submitted which contains additions, conditional or alternate bids, or irregularities which may make the proposal incomplete, indefinite, or ambiguous as to its meaning, thus requiring clarification after the specified date and time of bid opening shall be rejected.

13. Bids shall be opened publicly in the City Council Chambers or Council Committee Room.

14. Cash discounts may be accepted, but SHALL NOT be considered in making award.

15. Regarding a bid for purchase of materials, supplies or services, not to include construction of any public works, a written notice of acceptance mailed or otherwise furnished to the successful bidder shall result in a binding contract without further action by either party.

16. When any bid is accepted for the construction or doing of any public works, a written contract shall be executed by and between the City of Alexandria and the Contractor. No contract shall be binding upon the City until it has been executed by the City and delivered to the successful bidder. Should the bidder to whom the contract is awarded fail to execute the contract, the award shall then be made to the next lowest responsible bidder, or re-advertised for public bid, said decision to be in the sole judgment of the City of Alexandria. This action may result in the loss of bidding privileges for a period of one (1) year.

17. The City of Alexandria shall schedule for payment the invoices for articles or services purchased under this bid within thirty (30) days after due and proper delivery accompanied by invoice.

18. The City of Alexandria is exempt from all sales taxes. A sales tax exempt form shall be furnished by the City of Alexandria Purchasing Department, if requested.

19. Bidder(s) awarded item(s) by the City of Alexandria shall be responsible for supplying all products at the awarded price(s). Failure may result in the City's cancellation of the remaining items awarded.

20. Regarding Service Contracts and Procurement Contracts, the terms of the contract shall be binding upon any and all parties involved until goods and supplies are delivered, services have been rendered, and/or work has been completed and accepted by the Mayor on behalf of the City of Alexandria and all payments required to be made to the Contractor have been made. However, a contract may be terminated under any and all of the following conditions:

(a) By mutual agreement and consent of either party upon thirty (30) days written notice to the other party;

(b) By the Mayor, on behalf of the City of Alexandria, as a consequence of the failure of the Contractor to comply with the terms and conditions of the contract or the progress or quality of work to be performed in a satisfactory manner, proper allowance being made for circumstances beyond the control of the Contractor; or

(c) By satisfactory completion of all services and obligations described in the contract.

CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:
POLYMER INSULATORS & HARDWARE FOR 138 KV TRANSMISSION UPGRADE

General Conditions for Bidders - Please Read Carefully (Continued)

If the contract is terminated for any of the terms and conditions authorized in sub-paragraph (b) above, Contractor shall be formally notified in writing by the City of Alexandria Purchasing Department by means of certified mail informing him of cancellation of the contract, giving specific reasons for said cancellation. Contractor shall have the right to appeal to the City Council within ten (10) days from the date that said notification is placed in the U.S. Mail. Contractor's appeal shall be accomplished by means of a letter addressed to the City Council and delivered to the City Clerk, stating that an appeal to the decision of cancellation is desired. The City Council shall thereafter hold a hearing on the appeal, giving all parties the opportunity to present any and all evidence concerning the decision of cancellation. After hearing the appeal, the city Council may, by a majority vote, sustain, modify, or reverse the findings for said decision and shall provide, if requested by Contractor, a written determination of its findings.

21. Contractors submitting bids for Public Works construction projects in excess of $1.00 must show his Contractor's License Number on the front of the bid envelope, except for certain projects for which a Contractor's License Number is not required by the State Contractor's Licensing Board. Failure to comply with this directive shall result in automatic bid rejection, furthermore, any Contractor who submits a bid for a type of construction for which he is not properly licensed shall be acting in violation of LA R.S. 37:2163, and shall be subject to all provisions for violation and penalties thereof. Contractors who are owned by, and are submitting a bid as a subsidiary of a parent company, whose name is listed in the State of Louisiana's Roster of Licensed Contractors, may do so by including a letter of proof of ownership from the parent company with the submitted bid package. The letter must be signed as per LA R.S. 38:2212 B.(5)(a)(b)(c) (see Item #22 below).

22. All bids submitted via USPS (registered or certified), overnight courier or hand delivered, shall be signed by hand and in ink by an authorized company representative per LA R.S. 38:2212 B.(5)(a)(b)(c), which states:

(c)(i) Evidence of agency, corporate, or partnership authority shall be required for submission of a bid to the division of administration or the State of Louisiana. The authority of the signature of the person submitting the bid shall be deemed sufficient and acceptable if any of the following conditions are met:

(aa) The signature on the bid is that of any corporate officer listed on the most current annual report on file with the Secretary of State, or the signature on the bid is that of any member of a partnership or partnership in commendam listed in the most current partnership records on file with the Secretary of State.

(bb) The signature on the bid is that of an authorized representative of the corporation, partnership, or other legal entity and the bid is accompanied by a corporate resolution, certification as to the corporate principle, or other documents indicating authority which are acceptable to the public entity.

(cc) The corporation, partnership, or other legal entity has filed in the appropriate records of the Secretary of State in which the public entity is located, an affidavit, resolution, or other acknowledged or authentic document indicating the names of all parties authorized to submit bids for public contracts. Such document on file with the Secretary of State shall remain in effect and shall be binding upon the principal until specifically rescinded and canceled from the records of the office.

General Conditions for Bidders - Please Read Carefully (Continued)

23. In-State preferences shall not apply to procurements involving federal funds.

24. Pursuant to LA R.S. 38:2212 O.(2)(a)(b), any modifications of plans and specifications will be made through an addendum. No addendum shall be issued within seventy-two (72) hours of the bid opening, excluding weekends and legal holidays, without the extension of the bid opening date. An extension of at least seven (7) but no more than thirty (30) working days is required but, re-advertising is not required. The addendum shall be transmitted by any one of the following methods: (1) facsimile transmission; (2) e-mail; (3) by hand; or (4) posted on the City of Alexandria's website (www.cityofalexandriala.com) and posted on Central Bidding's website (www.centralauctionhouse.com) if applicable.

25. All Federal Transit Administration (FTA) funded procurements, including operating assistance funding contracts, are to follow the *Master Agreement*, to include all applicable federal clauses.

a. Any bidder that is found listed on the Federal Government's *System for Award Management* (SAM) website, at www.sam.gov/portal/sam , under the advanced search feature for *Excluded Parties List System* (EPLS), shall automatically be rejected for the award of this bid, by Category and/or in its entirety. This applies to any portion of the bid that is a procurement funded by FTA.

26. Under the City's *AFEAT (Alexandria Fairness, Equality, Accessibility, and Teamwork Program)*, participation by minority and/or disadvantaged business enterprise firms is encouraged. Inquiries about the *AFEAT* Program should be directed to the Division of Finance. As a part of its RFP response, each Bidder ***shall*** submit documentation of its bona fide effort to secure subcontractors that meet the City's AFEAT goals. Each bidder ***shall*** also submit proof of engagement of any subcontractor selected because of its solicitations. The Bidder's bona fide efforts and engagement(s) are a consideration in bid review and rating.

CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:
POLYMER INSULATORS & HARDWARE FOR 138 KV TRANSMISSION UPGRADE

Alexandria Fairness, Equality, Accessibility, and Teamwork Program (AFEAT)

Dear Vendor:

Under the City's *AFEAT (Alexandria Fairness, Equality, Accessibility, and Teamwork Program*), participation by minority and/or disadvantaged business enterprise firms is encouraged. The AFEAT Program should be inquired about through the Division of Finance. The goals for qualifying disadvantaged, minority and female owned business in the use of professional service agreements with prime contractors will help effectuate the goals of increasing: the competitive viability of small business, minority, and women business enterprise by providing contract, technical, educational, and management assistance; business ownership by small business persons, minority persons, and women (including professional service opportunities); and the procurement by the City of professional services, articles, equipment, supplies, and materials from business concerns owned by small business concerns, minority persons, and women.

Prime contractors offering subcontracting should take specific action to ensure that a bona fide effort is made to achieve maximum results towards meeting the established goals. Primes shall document efforts and shall implement steps at least as extensive as the following in a good faith effort to reach or exceed the established goals:

A. *Establish and maintain a current list of minority and female owned businesses in Alexandria, in Rapides Parish, and in the State of Louisiana.*
B. *Document and maintain a record of all solicitations of offers for subcontracts from minority or female construction contractor and suppliers in Alexandria, in Rapides Parish, and in the State of Louisiana.*
C. *Secure listing of minority and women owned businesses from the City of Alexandria Purchasing Department, the Central Louisiana Business Incubator, and the State of Louisiana Department of Minority Affairs.*
D. *Participate in associations which assist in promoting minority and women owned businesses such as the Central Louisiana Business League, the Central Louisiana Business Incubator, and the Entrepreneurial League System.*
E. *Designate a responsible official to monitor all activity made in the effort to achieve or exceed the established goals; record contacts made, subcontracts entered into with dollar amounts, and other relevant information.*

For more information on AFEAT and the City of Alexandria's Diversity in Action Initiative, and to explore a local and statewide directory of minority businesses, please visit www.diversityinaction.org . Should you have any questions or comments, please do not hesitate to contact our Finance Department at 318-449-5091 or our Purchasing Department at 318-441-6180.

As a part of its RFP response, each Bidder ***shall*** submit documentation of its bona fide effort to secure subcontractors that meet the City's AFEAT goals. Each bidder ***shall*** also submit proof of engagement of any subcontractor selected because of its solicitations. The Bidder's bona fide efforts and engagement(s) are a consideration in bid review and rating.

Sincerely,

City of Alexandria

BID SPECIFICATIONS

SCOPE: The following bid specifications are to be used as minimum and maximum standards for **Polymer Suspension Insulators, Full Tension Deadend Kits, Full Tension Splice Kits, Armor-Grip® Suspension (AGS) Unit, Socket Clevis, machine bolts and lock nuts**, for use by The City of Alexandria Electric Distribution Department for the 138 kV Transmission Upgrade project. These materials must be compatible with high temperature, high ampacity conductor currently being sought by the City of Alexandria. A final manufacturer's name for the high temperature, high ampacity conductor selected will be provided at a later date.

All bids received shall be for materials only.

The estimated quantities needed for this hardware/accessories, are indicated on the Bid Form under each individual bid item. After bid award, the final purchase quantities for each bid item will be adjusted to accommodate those hardware items that are shipped in boxed quantities.

All bid prices **shall include any and all freight charges**. All products are to be shipped F.O.B., freight pre-paid, to the City of Alexandria Electric Distribution Warehouse, to the attention of Henry Jacobs, 1015 N. Third Street, Alexandria, LA 71301, phone 318-473-1353 or 318-473-1349. Successful bidder is requested to contact the Electric Distribution Warehouse twenty-four (24) hours prior to delivery at the phone numbers listed above.

All quoted products shall either meet or exceed the following specifications. Unless otherwise stated, the use of manufacturer's name and product numbers are for descriptive purposes and to establish general quality levels only, they are not intended to be restrictive.

Prospective bidders are required to state exactly what they intend to furnish, otherwise, it is fully understood that they shall furnish all items as stated. Bidder should indicate in the space provided below, under *"Bidder's Response:"*, the necessary information to indicate he/she is conforming with the bid specifications for each item as written. If Bidder is in complete compliance with each bid specification item as written, please write "Comply" in the space provided; if not, please indicate in this space, the necessary information on the product you are proposing. Each specification response is necessary to ensure the proper evaluation and tabulation of this bid. If each "*Bidder's Response"* section is not filled in or completed, your bid may be rejected.

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Bidder's Response:

1.0 POLYMER INSULATORS:

Polymer suspension insulators shall be for use at transmission voltages of 69 kV or greater. _____

1.1 Applicable Standards:

1.1.1 American National Standards Institute (ANSI):

C29.1 "Test Methods for Electrical Power Insulators" _____

BID SPECIFICATIONS

Bidder's Response:

1.0 POLYMER INSULATORS: (Continued)

C29.2 "Wet Process Porcelain & Toughened Glass Insulators – Suspension Type" _____

C29.11 "Test for Composite Suspension Insulators for Overhead Transmission Lines" _____

C29.12 "Composites – Suspension Type" _____

1.1.2 International Electrical Commission (IEC):

1109 "Composite Insulators for AC Lines with a Nominal Voltage Greater than 1000 Volts" _____

1.1.3 American Society for Testing and Materials (ASTM):

A-153 "Zinc-Coating (Hot-Dip) on Iron and Steel Hardware" _____

1.1.4 ANSI/IEEE:

Standard 987, "IEEE Guide for Application of Composite Insulators" _____

1.1.5 CIGRE:

CIGRE – SC 22-03/2001 "Composite Insulator Handling Guide" _____

1.2 General:

1.2.1 Experience: The manufacturer shall have a minimum of five (5) years of application experience with the proposed design and the materials used to manufacture the product. _____

1.2.2 Quality Control: The manufacturing facility shall be certified to ISO-9001. _____

1.2.3 Product Conformance: Insulators shall meet all of the requirements set forth in ANSI C29.11 and C29.12. _____

BID SPECIFICATIONS

Bidder's Response:

1.0 POLYMER INSULATORS: (Continued)

1.3 Design and Construction:

1.3.1 Polymer insulators shall consist of an ECR (Electrical Grade Chemical Resistance) fiberglass reinforced resin rod (core) covered with a HTV (High Temperature Vulcanized) silicone rubber housing; or equivalent design. The housing may consist of a continuous injection molded silicone rubber (inclusive of a sleeve and weathersheds), or an extruded silicone rubber sleeve with silicone rubber weathersheds securely bonded to the sleeve by a secondary operation. _____

1.3.2 For Suspension Insulators the core shall be comprised of axially aligned, boron free, E-glass fibers surrounded in a resin matrix of epoxy; or equal design. For Line Post Insulators the core shall be comprised of axially aligned, E-glass fibers surrounded in a resin matrix of epoxy; or equal design. _____

1.3.3 Housing: The core shall be covered by a housing in order to provide resistance against environmental influences, UV radiation, external pollution and humidity. The housing shall be made of high temperature vulcanized (HTV) silicone rubber with a nominal thickness of 3 mm; or equivalent design. _____

a. The required creepage distance shall be achieved by assembling the respective number of molded sheds, also made of HTV silicone rubber. All parts of the insulating body, i.e. FRP rod, sheath and the weathersheds, shall be bonded together by vulcanization; or equal process. _____

b. An injection molding process, used to form the complete housing shall be considered as acceptable only, if the housing is molded in one single shot. Molding in multiple steps may cause flaws and residual mechanical stresses in the joining seams and, therefore, shall not be applied. _____

BID SPECIFICATIONS

Bidder's Response:

1.0 POLYMER INSULATORS: (Continued)

1.3.4 The base polymer shall be 100% silicone rubber. Appropriate fillers will be added to enhance the electrical and mechanical properties of the final compound. Manufacturer shall have appropriate experience with current silicone formulation. Manufacturers shall indicate the date of the last change in silicone formulation. _____

1.3.5 That portion of the housing or sleeve that interfaces with the core shall be securely bonded to the core such that the interface bond is stronger than the tear strength of the rubber. Manufacturer shall state number of reported field failures due to flashunder failures between silicone and FRP rod. _____

1.3.6 For designs where the polymer weathersheds are secured to the sleeve by a secondary operation, the bond between the sleeve and weathersheds shall be stronger than the tear strength of the rubber. _____

1.3.7 Polymer insulators shall be suitable for continuous application at ambient temperatures ranging from -40° F to 130° F. _____

1.3.8 Polymer insulators shall be capable of high pressure washing at nozzle pressures not to exceed 550 psi. _____

1.3.9 End fittings shall be forged steel and fixed to the core by means of radial compression; or equal design. The interface between the fitting, core, and sleeve shall be sealed by a meta stable silicone sealant to prevent moisture ingress to the core. Sealing of end fittings by molding silicone over end fittings shall not be acceptable. _____

a. Manufacturer shall disclose number of reported field failures, brittle fracture in nature, that have been caused by failure of current sealing system. Manufacturer shall state number of years experience with current sealing system. _____

BID SPECIFICATIONS

Bidder's Response:

1.0 POLYMER INSULATORS: (Continued)

1.3.10 All insulators shall be designed with corona and RIV control. Corona extinction shall be >115% of nominal phase to ground voltage and RIV ≤ 100 µV. Corona control may be achieved by the addition of corona rings, or the use of modified end fittings with corona control integrated into the shape of the fitting. _____

a. Manufacturer shall indicate if corona rings are required for use at 138kV, manufacturer recommended corona rings shall be included in unit pricing if necessary. _____

1.4 Inspection – Testing:

The Manufacturer shall perform all design, prototype, sample, and routine tests in accordance with ANSI C29.11 and C29.12. _____

1.5 Markings:

Each insulator shall be permanently marked with:

a. Manufacturer's date code or "lot" number. _____
b. Manufacturer's logo or name. _____
c. Mechanical strength rating (SML) in pounds. _____

1.6 Packaging:

1.6.1 The insulators shall be shipped in a weather resistant container. The container shall be constructed such that the weight of each insulator is supported by the metal end fittings and not by the rubber weathersheds. _____

1.6.2 All containers shall be suitable for lifting by a fork lift and of sufficient strength to allow stacking three (3) high. _____

BID SPECIFICATIONS

Bidder's Response:

1.0 POLYMER INSULATORS: (Continued)

1.7 Insulator Characteristics:

Manufacturer shall provide the following electrical and mechanical characteristics for each design: All values should include the impact of corona rings if required.

1.7.1 Suspension Insulators:
Approved: Lapp CS3-060-YB-140-A; or equal. _____

a. Section length: 60" (+/-½") _____
b. Minimum leakage distance: 136" _____
c. Strength rating in pounds (SML): 30,000 lbs _____
d. Ground side end fitting: Y-Clevis _____
e. Line side end fitting: Ball (ANSI 52-5) _____
f. Minimum positive critical impulse flashover (CIFO): 806kV _____
g. Minimum negative critical impulse flashover (CIFO): 826kV _____
h. Minimum 60 Hz dry flashover: 502kV _____
i. Minimum 60 Hz wet flashover: 434kV _____
j. Minimum dry arc distance: 51" _____
k. Corona ring diameter and location (if required by the manufacturer) _____

1.7.2 Line Post Insulators:
Approved: Lapp CL2-060-21-135-A; or equal: _____

a. Section length: 60" (+/-½") _____
b. Minimum leakage distance: 136" _____
c. Minimum Cantilever Strength rating in pounds (SCL): 3,160 lbs _____
d. Minimum Cantilever Strength rating in pounds (RCL): 1,580 lbs _____
e. Ground side end fitting: Bendable Gain Base with 12" bolt hole spacing _____
f. Line side end fitting: two hole drop tongue _____
g. Minimum positive critical impulse flashover (CIFO): 773kV _____

BID SPECIFICATIONS

Bidder's Response:

1.0 POLYMER INSULATORS: (Continued)

h. Minimum negative critical impulse flashover (CIFO): 822kV _____
i. Minimum 60 Hz dry flashover: 521 kV _____
j. Minimum 60 Hz wet flashover: 457kV _____
k. Minimum dry arc distance: 47.68" _____
l. Corona ring diameter and location (if required by the manufacturer) _____

2.0 FULL TENSION DEADEND KIT:

2.1 Full tension deadend (compression deadend) for ACCC® transmission lines up to and including 230 kV. _____

2.2 Deadend kit shall be CTC Global Corporation's Grosbeak, Catalog Number Kit Assembly #5600-1050; or equal. _____

2.3 Deadend assembly consists of aluminum body, steel eye and terminal with mounting hardware, minimum. _____

3.0 FULL TENSION SPLICE KIT:

3.1 Full tension two (2) piece splice (compression splice) for ACCC® transmission lines up to and including 230 kV. _____

3.2 Splice kit shall be CTC Global Corporation's Grosbeak, Catalog Number 5600-2050; or equal. _____

4.0 ARMOR-GRIP® SUSPENSION (AGS) UNIT:

4.1 For use with CTC Global Corporation's ACCC®, Grosbeak (0.990" OD), or equal, high temperature conductor on conductor angles up to 30°. _____

4.2 Preformed Line Products catalog #AGS-5125-YC or AGS-5125HT-YC; or equal. _____

BID SPECIFICATIONS

Bidder's Response:

5.0 SOCKET CLEVIS FITTING:

5.1 For use with the CTC Global Corporation's ACCC®, Grosbeak, catalog #56600-1050 – Deadend Kit; or equal, (used to attach the conductor deadend to the insulator). _____

5.2 Lindsey Manufacturing Company, Catalog #3183, rated 30,000 pound; or equal. _____

END OF SPECIFICATIONS

PRICE PAGE

All bid prices shall be in compliance with the bid specifications and include delivery as specified:

Bid Item #1 - Polymer Suspension Insulators – Lapp CS3-060-YB-140-A; or equal:

(Estimated quantity needed – 70 each)

Bid Price $_____/per each Packaged:_____/Per Box

Manufacturer's Brand Name:_____ Model Name/Number:_____

Bid Item #2 - Polymer Horizontal Post Insulators – Lapp CL2-060-21-135-A; or equal:

(Estimated quantity needed – 216 each)

Bid Price $_____/per each Packaged:_____/Per Box

Manufacturer's Brand Name:_____ Model Name/Number:_____

Bid Item #3 – Full Tension Deadend Kit – 652 ACCC® Grosbeak, Catalog #5600-1050; or equal:

(Estimated quantity needed – 70 each)

Bid Price $_____/per each Packaged:_____/Per Box

Manufacturer's Brand Name:_____ Model Name/Number:_____

Bid Item #4 – Full Tension Splice Kit - ACCC® Grosbeak, Catalog #5600-2050; or equal:

(Estimated quantity needed – 6 each)

Bid Price $_____/per each Packaged:_____/Per Box

Manufacturer's Brand Name:_____ Model Name/Number:_____

Bid Item #5 - AGS Suspension Unit – Preformed Line Products, Catalog # AGS-5215-YC or AGS-5125HT-YC; or equal:

(Estimated quantity needed – 213 each)

Bid Price $_____/per each Packaged:_____/Per Box

Manufacturer's Brand Name:_____ Model Name/Number:_____

PRICE PAGE (Continued)

Bid Item #6 – Socket Clevis Fitting – Lindsey Manufacturing Co., Catalog #3183; or equal:
(Estimated quantity needed – 70 each)
Bid Price $_____/per each Packaged:_____/Per Box
Manufacturer's Brand Name:_____ Model Name/Number:_____

Bid Item #7 – ¾" Square Locknut – Allied Bolt Brand, Catalog #22011; or equal:
(Estimated quantity needed – 440 each)
Bid Price $_____/per each Packaged:_____/Per Box
Manufacturer's Brand Name:_____ Model Name/Number:_____

Bid Item #8 – ¾" x 24" Full Threaded Rod – Hughes Brand, Catalog #TR724-F; or equal:
(Estimated quantity needed – 140 each)
Bid Price $_____/per each Packaged:_____/Per Box
Manufacturer's Brand Name:_____ Model Name/Number:_____

Bid Item #9 – ¾" x 18" Square Head Machine Bolt with Nut – Allied Bolt Brand, Catalog #8248; or equal: (Estimated quantity needed – 14 each)
Bid Price $_____/per each Packaged:_____/Per Box
Manufacturer's Brand Name:_____ Model Name/Number:_____

Bid Item #10 – ¾" x 20" Square Head Machine Bolt with Nut – Allied Bolt Brand, Catalog #8250; or equal: (Estimated quantity needed – 160 each)
Bid Price $_____/per each Packaged:_____/Per Box
Manufacturer's Brand Name:_____ Model Name/Number:_____

CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:
POLYMER INSULATORS & HARDWARE FOR 138 KV TRANSMISSION UPGRADE

PRICE PAGE (Continued)

Bid Item #11 – Clamp Deadend, Bolted for 3/8" Galv. Steel – Anderson Brand, Catalog #SWDE-5; or equal: (Estimated quantity needed – 30 each)

Bid Price $_____/per each Packaged:_____/Per Box

Manufacturer's Brand Name:_____ Model Name/Number:_____

Bid Item #12 – Clamp 3- Bolt for 3/8" Galv. Steel Wire – Joslyn Brand, Catalog #J931; or equal: (Estimated quantity needed – 20 each)

Bid Price $_____/per each Packaged:_____/Per Box

Manufacturer's Brand Name:_____ Model Name/Number:_____

Bid Item #13 – 4" x 4" x 3/8" Curved Square Washer for ¾" Bolt – Allied Bolt Brand, Catalog #220; or equal: (Estimated quantity needed – 440 each)

Bid Price $_____/per each Packaged:_____/Per Box

Manufacturer's Brand Name:_____ Model Name/Number:_____

Bid Item #14 – Shackle Anchor – Bethea Brand, Catalog #ASH-55; or equal:

(Estimated quantity needed – 10each)

Bid Price $_____/per each Packaged:_____/Per Box

Manufacturer's Brand Name:_____ Model Name/Number:_____

Bid Item #15 – Spring Washer for ¾" Bolt – Allied Bolt Brand, Catalog #7014; or equal:

(Estimated quantity needed – 440 each)

Bid Price $_____/per each Packaged:_____/Per Box

Manufacturer's Brand Name:_____ Model Name/Number:_____

CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:
POLYMER INSULATORS & HARDWARE FOR 138 KV TRANSMISSION UPGRADE

PRICE PAGE (Continued)

Bid Item #16 – Clamp Hitemp , 652 ACCC – Cushion Grip® Brand, Catalog #CGS-1097-HTYC; or equal: (Estimated quantity needed – 6 each)

Bid Price $_____/per each Packaged:_____/Per Box

Manufacturer's Brand Name:_____ Model Name/Number:_____

Bid Item #17 – Clamp Suspension for 3/8" Galv. Steel- Anderson Brand, Catalog #MS-46-N; or equal: (Estimated quantity needed – 73 each)

Bid Price $_____/per each Packaged:_____/Per Box

Manufacturer's Brand Name:_____ Model Name/Number:_____

Bid Item #18 – Conductor Static 3/8" EHS Guy Cable:

(Estimated quantity needed – 19,000 ft)

Bid Price $_____/per each Packaged:_____/Per Box

Manufacturer's Brand Name:_____ Model Name/Number:_____

Bid Item #19 – Single ¾" Bolt Static Support- Hughes Brand, Catalog #2812.6-12-B1CL; or equal: (Estimated quantity needed – 73 each)

Bid Price $_____/per each Packaged:_____/Per Box

Manufacturer's Brand Name:_____ Model Name/Number:_____

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Bidder Information:

Company Name:_____

Address:_____

City/State/Zip:_____

Telephone #: (_____)_____ Fax #: (_____)_____

Email_____

Authorized Printed Name and Title:_____

Authorized Signature:_____

(Per LA R.S. 38:2212(A)(c)(i) - See General Conditions Item #22, Page 4 of these bid specifications.)