



Lexington-Fayette Urban County Government

Electrical Switchgear Maintenance & Testing

Proposal

#810890

November 30, 2016

Submitted by:



Eric Croner
1803 Taylor Avenue
Louisville Kentucky 40213
800-434-0415
Fax 502-371-8298
eric.croner@cepower.net

Lexington-Fayette Urban County Government

Electrical Switchgear Maintenance & Testing

CE Power Proposal # 810890

BASE BID



Proposal # 810890

November 29, 2016

Brian Marcum
Lexington Fayette Urban County Government
Lexington, KY 40504

Subject: 2016 Plant PM Service

Dear Brian,

CE Power Solutions appreciates this opportunity to be of service to Lexington Fayette Urban County Government in Lexington, KY. Per the above referenced subject, we submit the following for your consideration.

WORKSCOPE

CE Power will complete all PM work per the testing specifications provided by the Lexington Fayette Urban County Government. CE Power will perform all work on a T&M basis and will work in conjunction with applicable maintenance staff personnel to test the equipment as it can be removed from service. That being said, CE Power has provided a "best guess" cost to complete the project based on previously completed outages. After the outage is completed CE Power will provide detailed test sheets for review and approval prior to billing. Finally, a detailed report will be provided upon project completion.

Substation Breakdown:

- Substation A
 - Qty. (6) 15kV MVS
 - Qty. (1) 15 kV Padmount MVS
 - Qty. (3) 1600A 480V Circuit Breakers
 - Qty. (5) 800A 480V Circuit Breakers
 - Qty. (4) 400A 480V Circuit Breakers
 - Qty. (2) Volt Meters
 - Qty. (2) Ammeters
- Substation B
 - Qty. (4) 15kV MVS
 - Qty. (1) 15 kV Padmount MVS
 - Qty. (3) DS-632 480V Circuit Breakers
 - Qty. (14) DS-206 480V Circuit Breakers
 - Qty. (2) Volt Meters
 - Qty. (2) Ammeters
- Blower Building
 - Qty. (4) 15kV MVS
 - Qty. (2) 15 kV Padmount MVS
 - Qty. (2) Limit Amp Starters

Estimated Net Price to Complete Project: \$27,000.00

CE Power 2016 Labor Rates:

	ST	OT	DT
Engineer Cost Rate/ Hr:	\$ 160.00	\$ 205.00	\$ 255.00
Senior Service Technician Cost Rate / Hr:	\$ 146.00	\$ 183.00	\$ 236.00
Service Technician Cost Rate / Hr:	\$ 130.00	\$ 174.00	\$ 214.00

CLARIFICATIONS

- Terms: Net 30 days
- CEP will complete all work on a T&M basis
- All utility power removal including permits to be completed by others
- All switching to be completed by others
- All pricing is based on the assumption that all work will take place during normal business hours
- CEP assumes 480V 3 Phase power to be provided by others for test equipment
- Any equipment defects will be quoted / repaired under a separate proposal
- CEP will not clean any of the switchgear while voltage is present

SPECIAL CONSIDERATIONS

CE Power Solutions is a Professional Service Organization that provides Engineering, Project Management, Procurement, Commissioning, Preventive Maintenance, and Predictive Maintenance solutions on large or complex electrical projects. CE Power employees are Drug Free and OSHA safety trained. Analysis and engineering recommendations are provided by a Licensed PE.

TERMS

Standard CE Power Terms and Conditions apply.

Terms: Net 30 days

This proposal is valid for 60 days.

PROPOSAL ACCEPTANCE INFORMATION

CE Power Solutions, LLC
Attn: Eric Croner
1803 Taylor Ave.
Louisville, KY 40213

Fax: 502.371.8298
Email: eric.croner@cepower.net

We appreciate this opportunity and please feel free to contact us with any questions, concerns or clarifications.

Sincerely,

Eric Croner

KY Sales Engineer

Standard Contingencies:

Contingency Clause – if during the course of Field Testing and Maintenance Services, any unforeseen problems or conditions arise which may require immediate attention and will require utilizing additional man-hours and/or material/components outside the original, agreed upon Specifications or Scope of Work: these costs will be brought to the immediate attention of the Client's authorized personnel for written approval before proceeding.

Demobilization/Job Cancellation – if, within 24 hours of schedule Field Service Work, the customer cancels the Job, CE may charge for all mobilization and de-mobilization costs, set-up, hourly labor rates and loss of opportunity expenses.

Delay Clause – for Firm Bid Purchase requisitions, any disruption to the normal progression of the Field Testing and Maintenance Services caused by the Client production, facilities or personnel resulting in the inability to perform Field Testing and Maintenance Services will be charged, in addition to the base price, as stated on the Hourly Rate Schedule after ½ hour delay.

Weather-related or natural disaster-related disruptions or cancellations will be charged up to the next billable hour while on-site. Expenses, diems and mobilizations will be charged through the following travel day.

Onsite Substation Clause – CE Power requires a minimum advance notice of 5 working days prior to commencement of work. Advance notice of less than 5 working days for scheduling of work will be subject to price escalation depending on the nature of work to be performed.

Required Client Information for installed of existing Installations – The pricing and timeline quoted is based upon receipt of complete and accurate client information required to carry out of the scope of work specified. This includes, but is not limited to installation and equipment drawings, diagrams, specifications, pictures or other pertinent information relating to the work to be performed. Except as otherwise noted within the proposal and contract, CE Power assumes that all such material will be made immediately available for use in executing the scope of work. Failure or delay in providing such information could result in delay of project and/or additional charges to be incurred.

Repair/Remanufacture Contingency – Any equipment that is repaired or remanufactured (including but not limited to circuit breakers and transformer rectifier units), and in which the control equipment is not replaced with NEW, will not be covered under standard CE Power warranty. **Taxes and Permitting Fees** – Unless otherwise explicitly stated in this proposal, applicable taxes and permitting fees are not included in this proposal. If so desired, please contact CE Power Solutions, LLC.

This proposal is considered proprietary in nature, intended for the sole use of the entity addressed above, and as such is not intended for general public distribution.

Lexington-Fayette Urban County Government

Electrical Switchgear Maintenance & Testing

Bid Form/Affidavit



Lexington-Fayette Urban County Government

Lexington, Kentucky
Horse Capital of the World

Division of Central Purchasing

Date of Issue: November 22, 2016

INVITATION TO BID #170-2016 Electrical Switch Gear Maintenance & Testing

Bid Opening Date: November 30, 2016 **Bid Opening Time:** 2:00 PM
Address: 200 East Main Street, 3rd Floor, Room 338, Lexington, Kentucky 40507
Type of Bid: Price Contract

Pre Bid Meeting: N/A **Pre Bid Time:** N/A
Address: N/A

Sealed bids will be received in the office of the Division of Central Purchasing, 200 East Main Street, Lexington, Kentucky, until **2:00 PM**, prevailing local time on **11/30/2016**. Bids must be received by the above-mentioned date and time. Mailed bids should be sent to:

**Division of Central Purchasing
200 East Main Street, Room 338
Lexington, KY 40507, (859) 258-3320**

The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. **Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.** All bids must be signed and have the company name and address, bid invitation number, and the name of the bid on the outside of the envelope.

Bids are to include all shipping costs to the point of delivery located at: VARIOUS LOCATIONS, Lexington, KY

Bid Security Required: ___ Yes X No *Cashier Check, Certified Check, Bid Bond (Personal checks and company checks will not be acceptable).*

Performance Bond Required: ___ Yes X No

Check One: <u>X</u> Bid Specifications Met ___ Exceptions to Bid Specifications. <i>Exceptions shall be itemized and attached to bid proposal submitted.</i>	Proposed Delivery: ___ days after acceptance of bid.
Procurement Card Usage —The Lexington-Fayette Urban County Government may be using Procurement Cards to purchase goods and services and also to make payments. Will you accept Procurement Cards? ___ Yes ___ No	

Submitted by: CE Power Engineered Services LLC

Firm Name

1803 Taylor Ave.

Address

Louisville KY 40213

City, State & Zip

Bid must be signed:
(original signature)


Signature of Authorized Company Representative – Title

Matt P. Turner
Representative's Name (Typed or printed)

803 317 677-2030
Area Code - Phone - Extension Fax #

matt.p.turner@cepower.net
E-Mail Address

The Affidavit in this bid must be completed before your firm can be considered for award of this contract.

AFFIDAVIT

Comes the Affiant, Matt Pitmon, and after being first duly sworn under penalty of perjury as follows:

1. His/her name is Matt Pitmon and he/she is the individual submitting the bid or is the authorized representative of CE POWER ENGINEERED SERVICES, LLC, the entity submitting the bid (hereinafter referred to as "Bidder")
2. Bidder will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the bid is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes and fees during the life of the contract.
3. Bidder will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to award of the contract.
4. Bidder has authorized the Division of Central Purchasing to verify the above-mentioned information with the Division of Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license has not been obtained.
5. Bidder has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Bidder will not violate any provision of the campaign finance laws of the Commonwealth.
6. Bidder has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government Code of Ordinances, known as "Ethics Act."
7. Bidder acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a person is aware or should have been aware that his conduct is of that nature or that the circumstance exists.

Further, Affiant sayeth naught. _____

STATE OF OHIO

COUNTY OF BUTLER

The foregoing instrument was subscribed, sworn to and acknowledged before me by KERRY HENDEL on this the 29th day of NOVEMBER, 2016.

My Commission expires: 12-16-17

Kerry Hendel
NOTARY PUBLIC, STATE AT LARGE

Please refer to Section II. Bid Conditions, Item "U" prior to completing this form.

Lexington-Fayette Urban County Government

Electrical Switchgear Maintenance & Testing

Green Community

I. GREEN PROCUREMENT

A. ENERGY

The Lexington-Fayette Urban County Government is committed to protecting our environment and being fiscally responsible to our citizens.

The Lexington-Fayette Urban County Government mandates the use of Energy Star compliant products if they are available in the marketplace (go to www.Energystar.gov). If these products are available, but not submitted in your pricing, your bid will be rejected as non-compliant.

ENERGY STAR is a government program that offers businesses and consumers energy-efficient solutions, making it easy to save money while protecting the environment for future generations.

Key Benefits

These products use 25 to 50% less energy
Reduced energy costs without compromising quality or performance
Reduced air pollution because fewer fossil fuels are burned
Significant return on investment
Extended product life and decreased maintenance

B. GREEN SEAL CERTIFIED PRODUCTS

The Lexington-Fayette Urban County Government is also committed to using other environmentally friendly products that do not negatively impact our environment. Green Seal is a non-profit organization devoted to environmental standard setting, product certification, and public education.

Go to www.Green Seal.org to find available certified products. These products will have a reduced impact on the environment and on human health. The products to be used must be pre-approved by the LFUCG prior to commencement of any work in any LFUCG facility. If a Green Seal product is not available, the LFUCG must provide a signed waiver to use an alternate product. Please provide information on the Green Seal products being used with your bid response.

C. GREEN COMMUNITY

The Lexington-Fayette Urban County Government (LFUCG) serves as a principal, along with the University of Kentucky and Fayette County Public Schools, in the Bluegrass Partnership for a Green Community. The Purchasing Team component of the Partnership collaborates on economy of scale purchasing that promotes and enhances environmental initiatives. Specifically, when applicable, each principal is interested in obtaining best value products and/or services which promote environment initiatives via solicitations and awards from the other principals.

If your company is the successful bidder on this Invitation For Bid, do you agree to extend the same product/service pricing to the other principals of the Bluegrass Partnership for a Green Community (i.e. University of Kentucky and Fayette County Schools) if requested?

Yes X No _____

Lexington-Fayette Urban County Government

Electrical Switchgear Maintenance & Testing

Equal Opportunity Agreement

EQUAL OPPORTUNITY AGREEMENT

The Law

- Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.
- Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment discrimination by contractor and sub-contractor doing business with the Federal Government or recipients of Federal funds. This order was later amended by Executive Order No. 11375 to prohibit discrimination on the basis of sex.
- Section 503 of the Rehabilitation Act of 1973 states:

The Contractor will not discriminate against any employee or applicant for employment because of physical or mental disability.

- Section 2012 of the Vietnam Era Veterans Readjustment Act of 1973 requires Affirmative Action on behalf of disabled veterans and veterans of the Vietnam Era by contractors having Federal contracts.
- Section 206(A) of Executive Order 12086, Consolidation of Contract Compliance Functions for Equal Employment Opportunity, states:

The Secretary of Labor may investigate the employment practices of any Government contractor or sub-contractor to determine whether or not the contractual provisions specified in Section 202 of this order have been violated.

The Lexington-Fayette Urban County Government practices Equal Opportunity in recruiting, hiring and promoting. It is the Government's intent to affirmatively provide employment opportunities for those individuals who have previously not been allowed to enter into the mainstream of society. Because of its importance to the local Government, this policy carries the full endorsement of the Mayor, Commissioners, Directors and all supervisory personnel. In following this commitment to Equal Employment Opportunity and because the Government is the benefactor of the Federal funds, it is both against the Urban County Government policy and illegal for the Government to let contracts to companies which knowingly or unknowingly practice discrimination in their employment practices. Violation of the above mentioned ordinances may cause a contract to be canceled and the contractors may be declared ineligible for future consideration.

Please sign this statement in the appropriate space acknowledging that you have read and understand the provisions contained herein. Return this document as part of your application packet.

Bidders

I/We agree to comply with the Civil Rights Laws listed above that govern employment rights of minorities, women, veteran status, disability and age.



Signature

CE Power Engineered Services, LLC

Name of Business

Lexington-Fayette Urban County Government

Electrical Switchgear Maintenance & Testing

General Provisions of Bid Contract

GENERAL PROVISIONS OF BID CONTRACT

By signing the below, bidder acknowledges that it understands and agrees with the following provisions related to its bid response and the provision of any goods or services to LFUCG upon selection by LFUCG pursuant to the bid request:

1. Bidder shall comply with all Federal, State & Local regulations concerning this type of service or good.
2. Failure to submit ALL forms and information required by LFUCG may be grounds for disqualification.
3. Addenda: All addenda, if any, must be considered by the bidder in making its response, and such addenda shall be made a part of the requirements of the bid contract. Before submitting a bid response, it is incumbent upon bidder to be informed as to whether any addenda have been issued, and the failure of the bidder to cover any such addenda may result in disqualification of that response.
4. Bid Reservations: LFUCG reserves the right to reject any or all bid responses, to award in whole or part, and to waive minor immaterial defects in proposals. LFUCG may consider any alternative proposal that meets its basic needs.
5. Liability: LFUCG is not responsible for any cost incurred by bidder in the preparation of its response.
6. Changes/Alterations: Bidder may change or withdraw a proposal at any time prior to the opening; however, no oral modifications will be allowed. Only letters, or other formal written requests for modifications or corrections of a previously submitted proposal which is addressed in the same manner as the bid response, and received by LFUCG prior to the scheduled closing time for receipt of bids, will be accepted. The bid response when opened, will then be corrected in accordance with such written request(s), provided that the written request is contained in a sealed envelope which is plainly marked "modifications of bid response".
7. Clarification of Submittal: LFUCG reserves the right to obtain clarification of any point in a bid or to obtain additional information from any bidder.
8. Bribery Clause: By his/her signature on its response, bidder certifies that no employee of his/hers, any affiliate or subcontractor, has bribed or attempted to bribe an officer or employee of the LFUCG.
9. Additional Information: While not necessary, the bidder may include any product brochures, software documentation, sample reports, or other documentation that may assist LFUCG in better understanding and evaluating the bid response. Additional documentation shall not serve as a substitute for other documentation which is required by the LFUCG to be submitted with the bid response.
10. Ambiguity, Conflict or other Errors: If a bidder discovers any ambiguity, conflict, discrepancy, omission or other error in the bid request of LFUCG, it shall immediately notify LFUCG of such error in writing and request modification or clarification of the document if allowable by the LFUCG.
11. Agreement to Bid Terms: In submitting its bid response, the bidder agrees that it has carefully examined the specifications and all provisions relating to LFUCG's bid request, including but not limited to the bid contract. By submission of its bid response, bidder states that it understands the meaning, intent and requirements of LFUCG's bid request and agrees to the same. The successful bidder shall warrant that it is familiar with and understands all provisions herein and shall warrant that it can comply with them. No additional compensation to bidder shall be authorized for services, expenses, or goods reasonably covered under these provisions that the bidder omits from its bid response.
12. Cancellation: LFUCG may unilaterally terminate the bid contract with the selected bidder(s) at any time, with or without cause, by providing at least thirty (30) days advance written notice unless a different advance written notice period is negotiated prior to contract approval. Payment for services or goods received prior to termination shall be made by the LFUCG provided these goods or services were provided in a manner acceptable to the

LFUCG. Payment for those goods and services shall not be unreasonably withheld.

13. **Assignment of Contract:** The selected bidder(s) shall not assign or subcontract any portion of the bid contract with LFUCG without the express written consent of LFUCG. Any purported assignment or subcontract in violation hereof shall be void. It is expressly acknowledged that LFUCG shall never be required or obligated to consent to any request for assignment or subcontract; and further that such refusal to consent can be for any or no reason, fully within the sole discretion of LFUCG.
14. **No Waiver:** No failure or delay by LFUCG in exercising any right, remedy, power or privilege hereunder, nor any single or partial exercise thereof, nor the exercise of any other right, remedy, power or privilege shall operate as a waiver hereof or thereof. No failure or delay by LFUCG in exercising any right, remedy, power or privilege under or in respect of this bid proposal or bid contract shall affect the rights, remedies, powers or privileges of LFUCG hereunder or shall operate as a waiver thereof.
15. **Authority to do Business:** Each bidder must be authorized to do business under the laws of the Commonwealth of Kentucky and must be in good standing and have full legal capacity to provide the goods or services specified in the bid proposal. Each bidder must have all necessary right and lawful authority to submit the bid response and enter into the bid contract for the full term hereof including any necessary corporate or other action authorizing the bidder to submit the bid response and enter into this bid contract. If requested, the bidder will provide LFUCG with a copy of a corporate resolution authorizing this action and/or a letter from an attorney confirming that the proposer is authorized to do business in the Commonwealth of Kentucky. All bid responses must be signed by a duly authorized officer, agent or employee of the bidder.
16. **Governing Law:** This bid request and bid contract shall be governed by and construed in accordance with the laws of the Commonwealth of Kentucky. In the event of any proceedings regarding this matter, the bidder agrees that the venue shall be the Fayette County Circuit Court or the U.S. District Court for the Eastern District of Kentucky, Lexington Division and that the bidder expressly consents to personal jurisdiction and venue in such Court for the limited and sole purpose of proceedings relating to these matters or any rights or obligations arising thereunder.
17. **Ability to Meet Obligations:** Bidder affirmatively states that there are no actions, suits or proceedings of any kind pending against bidder or, to the knowledge of the bidder, threatened against the bidder before or by any court, governmental body or agency or other tribunal or authority which would, if adversely determined, have a materially adverse effect on the authority or ability of bidder to perform its obligations under this bid response or bid contract, or which question the legality, validity or enforceability hereof or thereof.
18. Bidder understands and agrees that its employees, agents, or subcontractors are not employees of LFUCG for any purpose whatsoever. Bidder is an independent contractor at all times related to the bid response or bid contract.
19. If any term or provision of this bid contract shall be found to be illegal or unenforceable, the remainder of the contract shall remain in full force and such term or provision shall be deemed stricken.



Signature

11-29-16

Date

Lexington-Fayette Urban County Government

Electrical Switchgear Maintenance & Testing

Work Force Analysis Form

CO= GV83697
 U= GV83697

EQUAL EMPLOYMENT OPPORTUNITY
 2016 EMPLOYER INFORMATION REPORT
 CONSOLIDATED REPORT - TYPE 2

SECTION B - COMPANY IDENTIFICATION

1. CE POWER ENGINEERED SERVICES, LLC
 4040 REV DRIVE
 CINCINNATI, OH 45232

SECTION C - TEST FOR FILING REQUIREMENT

2.a. CE POWER ENGINEERED SERVICES, LLC 1-Y 2-Y 3-Y DUNS NO.:0 EIN :473803359
 4040 REV DRIVE
 CINCINNATI, OH 45232

SECTION E - ESTABLISHMENT INFORMATION

NAICS:

SECTION D - EMPLOYMENT DATA

JOB CATEGORIES	HISPANIC OR LATINO		NOT-HISPANIC OR LATINO										OVERALL TOTALS				
	MALE	FEMALE	***** MALE *****					***** FEMALE *****									
			BLACK OR AFRICAN AMERICAN	NATIVE HAWAIIAN OR PACIFIC ISLANDER	ASIAN	AMERICAN INDIAN OR ALASKAN NATIVE	TWO OR MORE RACES	WHITE	BLACK OR AFRICAN AMERICAN	NATIVE HAWAIIAN OR PACIFIC ISLANDER	ASIAN	AMERICAN INDIAN OR ALASKAN NATIVE		TWO OR MORE RACES			
EXECUTIVE/SR OFFICIALS & MGRS	0	0	16	0	0	0	0	0	0	0	1	0	0	0	0	0	17
FIRST/AID OFFICIALS & MGRS	1	0	12	0	0	0	0	0	0	1	1	0	0	0	0	0	15
PROFESSIONALS	3	0	48	1	0	2	0	0	0	0	6	2	0	1	0	0	63
TECHNICIANS	4	0	89	8	0	4	0	0	0	2	1	0	0	0	0	0	108
SALES WORKERS	0	0	15	0	0	0	0	0	0	0	1	0	0	0	0	0	16
ADMINISTRATIVE SUPPORT	1	0	10	0	0	1	1	0	0	0	22	1	0	1	0	1	38
CRAFT WORKERS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OPERATIVES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LABORERS & HELPERS	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	3
SERVICE WORKERS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	9	0	191	9	0	7	1	4	33	3	0	2	0	1	0	260	
PREVIOUS REPORT TOTAL																	

SECTION F - REMARKS

DATES OF PAYROLL PERIOD: 08/08/2016 THRU 08/21/2016

SECTION G - CERTIFICATION

CERTIFYING OFFICIAL: STEPHANIE COMBS
 EEO-1 REPORT CONTACT PERSON: STEPHANIE COMBS
 EMAIL: STEPHANIE.COMBS@CEPOWER.NET

TITLE: PAYROLL BENEFITS ADM
 TITLE: PAYROLL BENEFITS ADM
 TELEPHONE NO: 5137296263

CERTIFIED DATE[EST]: 11/21/2016 04:47 PM

Lexington-Fayette Urban County Government

Electrical Switchgear Maintenance & Testing

Pricing Sheet

BID SPECIFICATIONS
FOR
ELECTRICAL SWITCH GEAR MAINTENANCE AND TESTING
AT TOWN BRANCH WWTP

GENERAL

1. The successful bidder will provide all equipment and labor necessary to inspect, clean, lubricate, exercise, perform testing and calibration(s), and provide a written report as indicated within for electrical switch gear(s) and electrical sub-stations located at the Town Branch Wastewater Treatment Plant which is owned and operated by the Lexington Fayette Urban County Government Division of Water Quality.
2. Preference is for Bidder/Contractor to have previous experience with same or similar type projects.
3. It is recommended that each potential Bidder schedule a site visit to view and/or evaluate current installed equipment and identify work locations and/or conditions that may or may not have an impact on bid submittal.
4. An inventory of switch gear(s) and sub-station(s) equipment is provided within Bid Specification(s).
5. Work is to be performed Monday thru Friday between 8:00am and 4:00pm with as minimal down time as possible.
6. ***This price contract shall be in effect for two (2) years from the date of approval. This contract may be extended for two (2) additional one (1) year term(s) based upon the written agreement of the bidder and the LFUCG.***

SCOPE OF WORK

Load Interrupter Switches

1. Bidder/Contractor shall supply all equipment and labor necessary to perform the following maintenance and tests as indicated:

Specification Compliant	
Yes	No
✓	

- Maintenance: Clean, Lubricate and Exercise
 - The medium voltage interrupter switches shall be cleaned and inspected for physical and mechanical condition. The operating mechanism shall be lubricated and then exercised to identify any worn or damaged components. The main and arcing contacts shall be cleaned, and the alignment arc interrupter operation shall be checked.
- Tests: Insulation Resistance, and Contact Resistance
 - Insulation resistance and contact resistance tests shall be performed on each pole. Adjustments shall be made to correct contact resistance values that exceed 100 micro-ohms.

Voltmeters and Ammeters

1. Bidder/Contractor shall supply all equipment and labor necessary to perform the following maintenance and tests as indicated:

Specification Compliant	
Yes	No
✓	

- Maintenance: Clean and Inspect
 - The meters shall be cleaned and examined for broken parts. The connections to the meters and the switches shall be inspected.
- Tests: Inject Voltage/Current and Calibrate
 - The meters shall be calibrated at mid-scale

Power Circuit Breakers

1. Bidder/Contractor shall supply all equipment and labor necessary to perform the following maintenance and tests as indicated:

Specification Compliant	
Yes	No
✓	

- Maintenance: Clean, Inspect, and Lubricate
 - The low voltage air circuit breakers shall be removed from their cubicles and inspected for physical damage and mechanical condition. The alignment of the racking mechanism and breaker disconnecting stabs shall be closely inspected. The breaker arc chutes shall be removed and cleaned, and the main arcing contacts shall be cleaned and inspected. The breaker shall be cleaned, lubricated, and operated several times to exercise the operating mechanism, and to identify any mechanical problems.
- Tests: Contact Resistance, Insulation Resistance, and Primary High Current Injection
 - A contact resistance test shall be performed on all poles of the breaker. An insulation resistance test shall be made from each pole to ground. Each function of the overcurrent trip device [Long Time, Short Time, Instantaneous, and Ground Fault] shall be tested with a high current generating set to verify the pickup and timing characteristics. When practical, adjustments shall be made to bring tripping functions to within the intended timing parameters.

4160 Volt Vacuum Motor Starters

1. Bidder/Contractor shall supply all equipment and labor necessary to perform the following maintenance and tests as indicated:

Specification Compliant	
Yes	No
✓	

- Maintenance: Clean, Inspect, Lubricate and Check Contact Erosion Indicator
 - The vacuum motor starters shall be cleaned and inspected for physical and mechanical condition. The operating mechanisms shall be lubricated and then exercised to identify any worn or damaged components. The vacuum interrupter assemblies shall be cleaned to remove any dirt and/or moisture which can be the cause of high dielectric losses across the vacuum bottles. Note: A bottle can be rendered ineffective if excessive dirt is allowed to accumulate on the surface of the interrupter.

- Tests: Contact Resistance, Insulation Resistance, and AC High Potential
 - The contact erosion indicators shall be checked and contact resistance tests shall be performed. In order to evaluate the condition of the insulation system, insulation resistance and AC high potential test shall be performed.

General Equipment Cleaning

Clean and vacuum inside all 5 and 15kv equipment. Check all switchgear and pad mounted switches for dust and cobwebs, and clean and vacuum.

Specification Compliant	
Yes	No
✓	

Engineering Report

Upon completion of the project, a Registered Professional Engineer, P.E., shall analyze the test data and provide an Engineering Report. The Report shall include a summary of the work performed, test results, deficiencies noted and recommended corrective action.

Specification Compliant	
Yes	No
✓	

Electrical Switchgear Inventory

Town Branch WWTP

System "A"

- Main 15kv Switchgear
 - (1) Pad mount 15kv selector/interrupter switch
 - (7) 15kv load interrupter switches

- Substation "A"
 - (2) Voltmeters
 - (2) Ammeters
 - (3) 1600 amp frame power circuit breakers
 - (10) 800 amp frame power circuit breakers

- Blower Building
 - (2) Pad mount 5kv interrupter switches
 - (5) 5kv load interrupter switches
 - (4) 5kv LimitAmp vacuum motor starters

System "B"

- Main 15kv Switchgear
 - (1) Pad mount 15kv selector/interrupter switch
 - (5) 15kv load interrupter switches

- Substation "B"
 - (2) Voltmeters
 - (2) Ammeters
 - (3) 3200 amp frame power circuit breakers
 - (12) 800 amp frame power circuit breakers
 - (2) 2000 amp frame power circuit breakers

Please write Bid Price(s) as indicated below

Item	Description	Bid Price
Electrical Switchgear Maintenance and Testing	Perform maintenance, cleaning and tests as indicated within	\$27,000.00

Additional Work Hourly Rate		
Item	Description	Hourly Rate
Electrical Switchgear Maintenance and Testing and/or Repairs	Additional work activities needed and/or recommended beyond scope presented within (As agreed upon by the Bidder/Contractor and the LFUCG)	\$146.00 /hour

- Bidders must schedule an appointment for site visit to verify the information included within these specifications prior to bid submittal. Appointments can be arranged by contacting the Town Branch WWTP Operations Supervisor, Mark Stager, at the following number: 859.425.2413.
- Bid questions contact Brian Marcum, Division of Central Purchasing, at the following number: 859.258.3325