FedBizOpps

**Presolicitation Notice**

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**CLASSIFICATION CODE**

**SUBJECT**

**CONTRACTING OFFICE'S**

**ZIP-CODE**

**SOLICITATION NUMBER**

**RESPONSE DATE (MM-DD-YYYY)**

**ARCHIVE**

**DAYS AFTER THE RESPONSE DATE**

**RECOVERY ACT FUNDS**

**SET-ASIDE**

**NAICS CODE**

**CONTRACTING OFFICE**

**ADDRESS**

**POINT OF CONTACT**

(POC Information Automatically Filled from

User Profile Unless Entered)

**DESCRIPTION**

**See Attachment**

**AGENCY'S URL**

**URL DESCRIPTION**

**AGENCY CONTACT'S EMAIL**

**ADDRESS**

**EMAIL DESCRIPTION**

**ADDRESS**

**POSTAL CODE**

**COUNTRY**

**ADDITIONAL INFORMATION**

**GENERAL INFORMATION**

**PLACE OF PERFORMANCE**

**\* = Required Field**

FedBizOpps Presolicitation Notice

Rev. March 2010

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Electrical distribution equipment testing

ICO Murfreesboro VA Medical Center

37129

VA249-18-Q-0021

10-11-2017

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811310

Department of Veterans Affairs

Network Contracting Office 9

1639 Medical Center Parkway

Suite 400

Murfreesboro TN 37129

Phon Phasavath

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**THIS IS A PRE-SOLICIATION NOTICE** – The U.S. Department of Veterans Affairs requires Triannual Electrical Test service for the Department of Veterans Affairs, Tennessee Valley Healthcare System (TVHS), Murfreesboro Campus, 3400 Lebanon Pike, Murfreesboro, TN 37129. A request for Quote will be posted on FBO on or about October 16, 2017.

**An official solicitation will be issued**

**Please see SOW and equipment list for more details.**

Contractor shall furnish all labor, materials, insurance, licenses and equipment to provide a safe environment to conduct electrical test of equipment throughout the Murfreesboro VA medical center. The vendor selected shall be ready to start on December 1, 2017 or the day after award.

**Submission of Information**: Companies having capabilities necessary to meet or exceed the stated requirements are must provide the below company information via e-mail to [Phon Phasavath1@va.gov](mailto:Phon%20Phasavath1@va.gov) no later than October 10, 2017 **at 8:00 AM**, **Central Time**:  
  
1. Name of Company, Address and DUNS Number.  
2. Point of Contact and Phone Number.  
3. Business Size applicable to the NAICS Code: a. HuBZone Small Business Concern; b. Service-Disabled Veteran Owned Small Business Concern (SDVOSBC); c. Veteran Owned Small Business Concern (VOSBC); d Small Business Concern; e. Large Business Concern

4. Documentation by the manufacturer certifying that Technicians are authorized to work on the generator per the maintenance schedule set forth by the manufacturer.  
5. Documentation Verifying Small Business Certification:   
a. If claiming HuBZone status, provide a copy of your HuBZone Certificate from SBA.  
b. If claiming SDVOSBC status, provide documentation that shows the Service Disable Veteran (SDV) unconditionally owns 51 % of the business, controls the management and daily operations, and holds the highest officer position in the company. Documentation should also be provided to show that the SDV has a service-connected disability that has been determined by the Department of Defense or Department of Veteran Affairs. Finally, provide documentation that shows the business is small under the NAICS code 811310.   
c. If claiming VOSBC status, provide documentation that shows the Veteran unconditionally owns 51% of the business, controls the management and daily operation, make long-term decisions for the business, and holds the highest officer position in the company that works at the business fulltime during normal working hours. The documentation should also show the business is small under the NAICS code 811310.  
d. If claiming Small Business status, provide documentation to show the business is small under NAICS code 811310.

DEPARTMENT OF VETERANS AFFAIRS

TVHS Alvin C. York VA MEDICAL CENTER

**Statement of Work**

**Maintenance, Inspection and Testing of the Electrical Distribution System**

**PART I - GENERAL**

1. **Introduction**

This contract requirement is for the maintenance, inspection, electrical testing, operation and /or calibration of the Electrical Power Distribution System and all of the distribution components at TVHS, Murfreesboro Campus, 3400 Lebanon Pike, Murfreesboro TN, 37129.

1. **Background**

The Electrical Distribution system is required to be tested under the requirements of VHA Directive 1028 and The Joint Commission. Maintenance, Inspections and testing will adhere to the requirements of the National Fire Protection Association (NFPA) codes and standards including the National Electrical Code (NFPA 70), Recommended Practice for Electrical Equipment Maintenance (NFPA 70B), Standard for Electrical Safety in the Workplace (NFPA 70E), Health Care Facilities Code (NFPA 99), Life Safety Code (NFPA 101) and Standard for Emergency and Standby Power Systems (NFPA 110) as the basis for the requirements of the design, installation, operation, testing, and maintenance of the Electrical Power Distribution System at VHA facilities.

1. **Scope of work**

The contractor is to provide all supervision, transportation, qualified labor, tools, test equipment and materials to perform all NETA Standards for Maintenance Testing and Inspections of all electrical distribution equipment. Distribution equipment to include but not limited to 4160 volt distribution equipment such as substation breakers and associated protective relays and controls, switches (manual and automatic), cables and manholes and transformers, motor starters. 480 and 208 volt unit substations - switchboards and associated breakers, dry type transformers, panel boards and associated breakers, disconnect switches, variable speed drives, contactors etc.

1. **Scheduling**
2. This contract performance will be accomplished in multiple stages and will require work to be performed during normal working hours, after normal working hours as well as extended hours on weekends. No work will be performed on any Federal holidays. Normal working hours are from 8 am to 4:30 pm Monday through Friday. Weekend work hours will be from 7am until the planned work for that day is complete and all electrical equipment for the facility is back in proper working order.
3. Performance of this contract will be complete within 120 days of the proposed start date December 1, 2017.

* December – Complete site survey of all electrical equipment and prepare all required test sheets for all equipment requiring to be reported upon. Data sheets are to be ready with all identifying information prior to power outages for testing. The Contractor and the Electrical Supervisor to structure a schedule for power outages during the month of February and March. Due to the power outages required for maintenance and testing, and the power requirements for the medical center, all outages and testing are to be coordinated and scheduled with the Electrician Supervisor, any requirements for adjusting the schedule (e.g. to minimize disruption to the VAMC) shall be incorporated by the Contractor. At no time will both emergency source and normal source of power be permitted to be out of service by the contractor.
* January – complete Infrared inspection of all electrical equipment under this requirement. Infrared scan is to be accomplished during the time frame of the facilities highest electrical load, 8:30 am to 4 pm Monday through Friday.
* February 10, 2018 - Starting weekend for building power outages for electrical testing to meet the VHA directive working on de-energized equipment. Continues each weekend until all buildings electrical equipment has been tested.
* March – actual date to be determined, the Contractor and the Electrical supervisor to coordinate with Middle Tennessee Electric for a 100% normal power outage and separation from Middle Tennessee Electric utility power and complete testing of all Bldg. 111 substation equipment and all other 4160 distribution equipment not tested under building outages.

1. For Contract bid purposes , a onetime walk-through of the facility to inspect the electrical equipment listed in the contract requirement for perspective contractors will be coordinated through the CO/COR prior to the bid due date. Contractors will be required to notify the CO of their intent to attend the walk-through.

**Part II – Requirements**

1. **Safety**
2. The Contractor shall adhere to all OSHA, EPA, NFPA Life Safety Codes, and all other regulatory requirements.
3. In performance of this contract, the Contractor shall follow VAMC safety policy and standard for safe work practices, and take such safety precautions as the Safety Officer or designee may determine to be reasonably necessary to protect the lives and health of occupants of the building.
4. The Contractor shall comply with VAMC smoking policy, which designates all interior space as nonsmoking areas.
5. Patient, employee, visitors, and contractor personnel safety shall be maintained at all times. The contractor is responsible for the occupation safety and health of his/her employees. The Contractor shall comply with all applicable OSHA safety and health standards.
6. The Contractor is responsible to identify, provide and maintain all personal protective equipment required to perform the duties outlined in the contract. In addition, the contractor is responsible for identifying and providing all applicable safety programs (i.e. lockout/tag out, confined space entry, universal precautions, etc.) required performing the work. Training on required safety programs and the proper use of PPE’s shall be provided, and documentation maintained by the contractor.
7. The Contractor is responsible for the supervision of all their employees while on government property. It is the Contractor’s responsibility to assure compliance with the scope of work and requirements referenced in this contract. Provisions provided in the scope of work are not intended to relieve the Contractor of this responsibility.
8. **Qualifications**
9. Contractors shall be experienced Electrical Contractors, having properly trained and certified permanent staff required to perform the contracted work. Electrical Contracting (i.e. the construction, repair, testing and maintenance of industrial and commercial electrical distribution systems) shall be the primary interest/specialty of the Contractor’s business.
10. Contractors shall be certified by the InterNational Electrical Testing Association (NETA) or *equivalent certifying organization* as Certified Technicians with each having completed the appropriate Occupational Safety & Health Administration (OSHA) approved construction safety training.
11. Contractors shall have technical training and demonstrable track records of working experience in maintenance, inspection, and testing of the Electrical Power Distribution Systems and related components in healthcare, industrial, educational, and commercial facilities for a minimum of five (5) continuous years. Electrical components on which the Contractors have experience shall include, but not be limited to, switchboards & switchgear (low and medium voltage); low voltage controls; emergency and standby generators; automatic transfer switches, wiring, transformers, meters, and other electrical appurtenances.
12. Contractors shall have safety trainings – either on-the-job or class-room type - in electrical safety outlined in the OSHA Standard 29 Code of Federal Regulations (CFR) 1910 Subpart S – Electrical, and the NFPA 70E – Standard for Electrical Safety in the Workplace. Training certification shall be provided indicating each technician is a *Qualified Person* as defined by NFPA 70E. Training certifications shall be submitted to the VA Contracting Officer prior to work. If no training certifications are available, the contractor’ Employer shall certify that he/she has met this requirement in writing, and submit it to the VA Contracting Officer prior to work.
13. Contractors shall have ready access to the latest versions of the following references:
14. NFPA 70, National Electrical Code.
    1. NFPA 70B, Recommended Practice for Electrical Equipment Maintenance.
15. NFPA 70E, Standard for Electrical Safety for the Workplace.
16. NFPA 110, Standard for Emergency and Standby Power System.
17. OSHA Standard 29 CFR 1910, Subparts I & S.
18. International Electrical Testing Association, Inc. (NETA) – Maintenance and Testing Specifications.
19. Operating /Maintenance manuals and specifications of the electrical equipment to be maintained and tested. These documents may be obtained from the VHA Medical Center, or the equipment manufacturers.
20. VHA Directive 1028 D 2014 07 25, Electrical Power Distribution System
21. **Contractor Equipment**
22. Contractors shall have and provide ample quantity all labor, necessary tools, all proper test equipment, and Personal Protective Equipment (PPE) to perform the work safely, effectively, efficiently and timely. Tools, equipment, and PPE shall comply with the requirements of OSHA Standard 29 CFR 1910, Subpart I, and NFPA 70E.
23. Prior to initiating work, Contractor shall provide documentation that all instruments, test equipment, tools and PPE have current calibration. Dated calibration labels shall be visible on all instruments, test equipment, tools and PPE as appropriate.
24. **Maintenance and Inspection**
25. Infra-Red Scanning/Thermo graphic Survey shall be performed on all electrical equipment.
    1. Use an infra-red scanning camera to detect hot spots in the Electrical Power Distribution System. Objective of this work is to detect any loose, broken, overloaded or corroded connections in the system. Survey will be conducted during the hours of 8:30am-4pm Monday-Friday during the times of peak load.
    2. Note that since this work item must be done while the Electrical Power Distribution System is energized, appropriate safety precautions with proper PPE must be taken before, during and after scanning the system. A permit for working on live electrical equipment will be completed prior to this work and approved by the VA chain of command.
    3. Contractor shall provide 2 separate hard copy reports on the Infra-Red/Thermo graphic study indicating all detected items needing corrections. Include thermal images of detected items within the report and recommendations for correction.
26. Work items, definitions, and references shall comply with the latest edition of the NETA – Maintenance Testing Specifications (MTS) and with the VHA Directive 1028, Electrical Power Distribution System. Below is a representative list and requirements (\* denotes additional requirements) of electrical equipment that shall be maintained and tested:
27. Switchgear and Switchboard Assemblies.
28. Transformers, Dry Type, Air-Cooled, Low-voltage, Small.
29. Transformers, Dry Type, Air-Cooled, Low-voltage, Large.
30. Transformers, Liquid-Filled. \*
31. Voltage regulators-single phase step type, medium voltage
32. Metal–Enclosed Busways.
33. Switches, Air, Low-Voltage.
34. Switches, Air, Medium-Voltage, Metal-Enclosed.
35. Switches, Oil, Medium-Voltage.
36. Switches, Vacuum, Medium-Voltage.
37. Switches, SF6, Medium-Voltage.
38. Circuit Breakers, Air, Insulated-Case/ Molded-Case. \*\*
39. Circuit Breakers, Air, Low-Voltage Power.
40. Circuit Breakers, Air, Medium-Voltage.
41. Circuit Breakers, Vacuum, Medium-Voltage.
42. Protective Relays, Mechanical, and Solid State.
43. Protective Relays, Microprocessor Based.
44. Grounding Systems. \*\*\*
45. Ground-fault Protection Systems.
46. Motor Control, Motor Starters, Low-Voltage.
47. Motor Control, Motor Starter, Medium-Voltage.
48. Emergency Systems, Engine Generators.
49. Emergency Systems, Automatic Transfer Switches. \*\*\*\*
50. Manholes and associated underground cables and connections. \*\*\*\*\*
51. Unit substation, battery charger, battery cleaning and battery load testing.

* \* (Item 4) Transformers/regulators, Liquid-Filled shall have the oil tested additionally for the presents of PCB’s. If none are detected, additional labels for each transformer/regulator shall be affixed to each device indicating the unit as PCB free. Remove any existing labels and replace with new.
* \*\* (Item 12) Perform a continuity check of all molded case circuit breakers (frames size 225 amps or less) to determine if all contacts open and reclose when breaker is manually tripped and restored. All panels are to be tested including emergency panels. Breakers in panels with no attached loads are to be switched and remain in the OPEN position upon completion of testing.
* \*\*\* (Item 18) Inspect and tighten ground connections. Test ground resistance for the entire facility electrical distribution grounding system. Provide an individual ground testing report including each location of the ground resistance test and the resistance detected. Include recommended corrective actions and cost estimates within the report.
* \*\*\*\* (Item 23) All automatic transfer switches considered part of the Emergency Power Supply System shall have all maintenance, testing and functional tests of the transfer switches be performed by a manufacturer’s factory trained and authorized service technician. Inventory shall be provided by the VA.
* \*\*\*\*\* (Item 24) Perform functional tests of all installed submersible pumps. Manhole 1A (behind the Fisher House): The contractor will provide all labor, tools, equipment, materials and transportation to clean all mud, dirt and debris from the manhole and medium voltage cables. The contractor will clean and inspect all cables for damage from abrasion and submersion in mud and dirt. The contractor will arrange cables and ensure the cables are supported by the insulated supports within the manhole and are off of the manhole floor.

1. 4-Hour Power Outage Test

* The Contractor shall be present for and will participate in the required VAMC 4-hour test of the Essential Electrical System (EES). This test shall fulfill the requirements of VHA Directive 1028, Electrical Power Distribution System, NFPA 110 (e.g. Para. 8.4.9.) and the Joint Commission. This test will be in conjunction with the testing and maintenance of the facilities Unit Sub-station equipment and will include opening of all utility service connections serving the VAMC for a minimum of 4-hours. During the test period, the contractor will verify operation of all EES components including the transfer to emergency power and return to normal service. The Contractor shall include in their bid proposal all costs associated with the services of the local utility company for the duration of the test. The estimated duration of the Contractor’s involvement is between 8 – 12 hours. The Contractor shall assist the VAMC staff with troubleshooting and correcting malfunctioning electrical equipment discovered during the test. Contractor shall record hourly generator stats and make any required adjustments and/or re-calibrations to all equipment which has been otherwise maintained, inspected, and tested under this Scope of Work. The Contractor shall provide a separate document stating the completion of the EES system outage test.

1. Contractors shall report deficiencies that are deemed critical or catastrophic immediately to the Contracting Officers Representative and or the Electric Shop Supervisor or the Maintenance and Operations Supervisor for immediate actions.
2. VA to provide an inventory list of electrical items to be tested under this contract. Due to construction and changes of the electrical distribution system from the time this contract is written, the inventory list is subject to change and shall not be considered 100% inclusive. Contractor shall accept a 5% change of equipment contained in the inventory.
3. **Cleaning**
4. Contractor is required to clean all insulating boots and insulating tape during inspection of all medium voltage switches. Contractor to replace any insulating tape that appears to have lost the ability to adhere to itself.
5. The contractor will ensure to remove by vacuum or lint free cloth all dust and debris from all equipment under test in this contract.
6. **Lubrication**
7. All manually operated switches and moving parts of automatic type switches shall be lubricated and functionally tested for proper operation. Lubricants used shall be approved or recommended by the manufacturer of the equipment or a suitable substitute list in the NETA standard.
8. **Summary of Work**
9. A complete written report of the work performed shall be provided to the VA within 14 working days of contract work completion. Information shown in the report shall meet the following:
   1. Company’s name, addresses, telephone, & FAX numbers.
   2. Name and signature of all contractors who performed the maintenance and testing.
   3. VA Work Contract Number, name and number of VA Contracting Officer.
   4. Date and Time of work.
   5. Copies of contractors’ valid licenses, professional and training certificates.
   6. Descriptions and model number of specialized tools and equipment used, such as torque wrench or infra-red scanning camera.
   7. Equipment items shall be listed in the report in a manner as the distribution system is installed (MV equipment, Bldg. MV equipment, switch boards, switch board breakers, Normal power panels, panel breakers, Emergency power panels, panel breakers, switches etc.
   8. Location, Type, Name, and nameplate information of electrical equipment maintained and tested.
   9. Descriptions of work items.
   10. Test data.
   11. Reference materials such as equipment manufacturer’s specifications, coordination study, etc.
   12. Provide an individual ground testing report including each location of the ground resistance test and the resistance detected. Include recommended corrective actions and cost estimates within the report.
   13. Provide a separate document stating the completion of the EES system outage test.
   14. Remarks on conditions of electrical equipment. List all deficiencies, if any.
   15. Recommended corrective actions and cost estimates, if any.
10. Submit two (2) hard copies of the complete written report, and one (1) CD-ROM of the electronic version of the report in Microsoft Word or Excel format to the Contracting Officers Representative (COR-Electrical Supervisor) within fourteen (14) calendar days of contracted work completion. All reference materials shall be included in the electronic version of the report, either through scanning or other means of electronic text import methods.
11. **Notes and Other Information**
12. There are no known security issues with this Statement of Work.
13. Schedule of electrical equipment is attached.
14. The Contractor shall provide the COR with pertinent emergency telephone numbers, in order to summon assistance in case an emergency develops. At least one of the emergency telephone numbers shall be manned twenty-four (24) hours per day. This information shall be provided in writing to the COR, prior to the contract start date.

See attached document: Triannual Equipment List.