NOTICE OF CONTRACT

COMMODITY: Storage Tank Cathodic Repair, Design, Testing, Reporting, and Troubleshooting Services

CONTRACT NO.: 8002689

NIGP: 941-3000

VENDOR: MESA Products Inc.
4445 S 74th E. Ave.
Tulsa, OK 74145

VENDOR #: 318222

CONTACT PERSON(s): Drew Lawrence
Tel. No.: (918) 627-3188
E-Mail: drew.lawrence@mesaproducts.com

EFFECTIVE FROM: April 1, 2018 Through: March 31, 2021

INVOICING & PAYMENTS:

Payments shall be made via ACH.

Itemized invoices shall be submitted to the individual agency after the completion of the job/services and shall include a brief description of the work done along with the location of work.

Contractor shall be paid within 30 days after receipt of properly documented invoice and acceptance of the work to the State’s satisfaction.

QUESTIONS:
Erinca Brisson, Purchasing Agent
603-271-7272
Erica.Brisson@das.nh.gov
SCOPE OF SERVICES

The purpose of this contract is to provide all labor, tools, transportation, materials, equipment, and permits as necessary to provide the required level of services as described herein.

1. Section 01100: General

Section Includes:
A. Contract Description;
B. Contractor’s Use of Site and Premises;
C. State Occupancy; and
D. Health and Safety.

1.1. Service Description
The work described herein pertains to testing, repairs, design, reporting, and troubleshooting cathodic protection systems for steel underground storage tanks (“USTs”). Work activities performed will be conducted in accordance with the following specifications and will be billed in accordance with the unit costs listed in the Exhibit B. The Contractor will work on an on-call basis with the State of New Hampshire (the “State”) and will be available to provide work schedules to the State within five (5) business days of the request and to conduct cathodic protection testing within ten (10) business days of the request.

Facilities covered under any awarded contract will consist of State owned and/or operated UST facilities within the State. Prior to initiation of projects, the State shall supply the Contractor with appropriate site logistical information, cathodic protection reports, and plans pertaining to the specified scope of work.

All work performed shall be conducted in accordance with the New Hampshire Department of Environmental Services (“NHDES”) Chapter Env-Or 400 Underground Storage Tank Facilities, The National Association of Corrosion Engineers (“NACE”) Standard Recommended Practices, and other applicable Federal and State regulations. All tasks described herein shall be completed by International Code Council (“ICC”) or NACE certified testers. All resources (i.e., materials, equipment, and labor) required to execute and complete tasks shall be provided and paid for by the Contractor.

1.2. Contractor’s Use of Site and Premises
The Contractor and crews will be granted access to the State sites and facilities during normal working hours; 7:00 AM to 4:00 PM, Monday through Friday. No premium charges will be paid for any off-hour work.

If access is required outside of the normal working hours described above, the Contractor shall provide a written request for access to the State a minimum of five (5) business days in advance. The State retains the right to deny any requests for access.

All necessary utility outages and shutdowns shall be coordinated with the State, as well as the facility users. All disruptions to services shall be scheduled such that disruptions of day to day activities are mitigated to the maximum extent possible.

1.3. State Occupancy
The State and/or their representative will occupy the site premises during all construction activities covered under any awarded contract. The Contractor shall cooperate with the State and their representatives and schedule work activities to accommodate State occupancy.

1.4. Health and Safety
The Contractor shall be responsible for the safety of their employees and subcontractors and shall provide all such safety measures as may be required for the protection of the public and those employed in or about the facility.

Prior to starting work at State facilities, the Contractor shall meet with the on-site facility manager, or representative, to receive an explanation of State site specific safety policy and procedures. The Contractor shall prepare a project specific site Health and Safety Plan (“HASP”) in accordance with Occupational Safety and Health Administration (“OSHA”) requirements that include all State of New Hampshire site specific safety policies and procedures. All Contractor site personnel will be required to read and sign the HASP. The plan shall include, but not limited to, the following:

- All applicable safety rules and regulations.
The use of equipment and procedures for testing to ensure a vapor-free working environment.

The Contractor shall conduct and document daily safety meetings. Safety rules may not cover every job situation. Good judgment by the Contractor will dictate any additional precautions that are necessary.

The Contractor shall be knowledgeable in the mechanical and electrical operation of fuel dispensing equipment and be responsible for taking appropriate safety precautions before beginning any work at the fuel dispensing island, including, but not limited to, the following fire code requirements:

- Shut off all electrical power to the dispensing device, to the pump serving the dispenser, and to all associated control circuits at the main electrical disconnect;
- Close the emergency shutoff valve for the product line below the dispenser;
- Relieve pressure on the dispenser by depressing nozzle trigger and emptying residual hose contents into safety containers; and
- Prevent all vehicle traffic and unauthorized persons from coming within twenty (20) feet of the dispensing device(s).

Contractor shall provide, erect, and maintain all necessary barricades for safety and protection of pedestrian and vehicular traffic during construction involving excavations, holes, electrical equipment, pumps, piping, and tanks, etc.

2. Section 01101: Cathodic Protection Testing and Reporting Specifications

Section Includes:

A. Description;
B. Testing Specifications;
C. Passing Requirements; and
D. Reporting.

2.1. Description

This section provides standard specifications and protocols for testing cathodic protection systems for steel underground storage tanks and piping systems.

2.2. Testing Specifications

The Contractor shall conduct a cathodic protection test on underground steel storage tanks, to comply with the requirements for new-installation and periodic three (3) year tests, under NHDES' Control of Underground Storage Facilities Rules (Env-WM 1401). Steel tanks and piping systems shall be tested using a calibrated portable copper-copper sulfate reference electrode (“CSE”) and a portable high impedance voltmeter in accordance with NACE Standards RP0285-2002 Corrosion Control of Underground Storage Tank Systems by Cathodic Protection and TM0101-2001 Measurement Techniques Related to Criteria for Cathodic Protection on Underground or Submerged Metallic Tank Systems. Current-on measurements shall be collected from a minimum of three (3) tank locations including the middle of the tank and both ends, one (1) or more product piping locations, and one (1) or more vent piping locations.

2.3. Passing Requirements

Steel underground storage tanks and piping systems shall be considered adequately protected from corrosion if one or more of the following criteria are met:

- NACE Standard TM0101-2001 Paragraph 8.6.3: All valid tank-to-electrolyte potential measurements are negative 850 millivolts ("mV"), or more negative, with respect to a CSE; and the significance of voltage drops has been considered by applying principles described in NACE Standard TM0101-2001 Paragraphs 8.6.1 and 8.6.2;
- NACE Standard TM0101-2001 Paragraph 9.6.1: The polarized (instant off) valid tank-to-electrolyte potential is negative 850 mV, or more negative, with respect to a CSE;
- NACE Standard TM0101-2011 Paragraph 10.2.6.1: A 100 mV or more polarization decay is measured with respect to a CSE;
- NACE Standard TM0101-2011 Paragraph 10.3.6.1: A 100 mV or more polarization formation is measured with respect to a CSE; and/or

2.4. Reporting
Cathodic protection testing shall be reported using the NHDES' Corrosion Protection Testing Form for Underground Storage Tanks or another representative form and include all items specified in Env-Or 406.17. All cathodic protection test reports shall be signed and dated by the certified ICC or NACE tester and shall include the tester's certification number. Three (3) copies of the form shall be prepared for each facility testing; one (1) shall be submitted to the NHDES and two (2) copies shall be submitted to the State, within three (3) calendar days of the test. If cathodic protection failures are identified, troubleshooting per Section 01104 of this specification may be performed. However, the Contractor shall not perform any additional tasks until they have received written authorization from the State.

3. **Section 01102: Cathodic Protection System Design**
   Section Includes:
   A. Description;
   B. Design; and
   C. Submittals.

   3.1. **Description**
   This section provides design requirements and specifications for new cathodic protection systems for existing steel underground storage tanks and piping systems. Designs and plans for new cathodic protection systems shall adhere to the specifications presented in this section.

   3.2. **Design**
   The Contractor shall design a new cathodic protection system for existing steel underground storage tanks. Cathodic protection systems shall be designed to provide effective and long lasting corrosion protection. Criteria for protection of steel underground storage tanks and piping systems shall be based on a structure-to-electrolyte potential within a range of -0.850 volts to -1.100 volts relative to a copper-copper sulfate electrode. The State steel underground storage tanks shall be equipped with galvanic cathodic protection systems (sacrificial magnesium anodes and test stations) in accordance with NACE Standard Recommended Practice RP0285-2002 Corrosion Control of Underground Storage Tanks by Cathodic Protection and RP0169-2002 Control of External Corrosion on Underground or Submerged Metallic Piping Systems. Plans for new cathodic protection shall be designed by a corrosion expert and based on the following key design parameters:
   - Total surface area to be protected including tank, product piping, and vent piping materials;
   - Protective current requirement;
   - Soil resistivity;
   - Type and integrity of the coating system;
   - Electrical isolation; and
   - Presence of electrical currents from nearby structures.
   The Contractor shall ensure that all cathodic protection design is carried out by NACE trained and certified cathodic protection designers.

   3.3. **Submittals**
   All corrosion protection designs and plans shall be submitted to the State for review. The Contractor shall provide with the design a price to install the designed system. The Contractor will complete one round of plan revisions based on State review, and then submit applications and plans for the specified cathodic protection work to the NHDES for a Construction Permit/Permit to Install. The Contractor shall respond to one round of design revisions and resubmit revised plans to the NHDES. The Contractor shall provide the State all permits once received.

4. **Section 01103 - Cathodic Protection System Repairs**
   Section Includes:
   A. Description;
   B. Means and Methods;
   C. Materials; and
   D. Reporting.

4.1. **Description**

Per Bid # 2051-18
This section provides requirements and specifications for repairs and upgrades to existing State cathodic protection systems that have been determined to be in need of supplemental anodes.

4.2. Means and Methods

Based on the results of Current Requirement Test performed in Section 01101, the Contractor shall supply and install supplemental anodes in accordance with Steel Tank Institute Recommended Practice for the Addition of Supplemental Anodes to STI-P3 USTs, R-972-01 ("STI-RP"), and approved plans as specified by 01102.

Specifically, the Contractor shall perform a Soil Resistivity Test in accordance with Section 8.5 of STI-RP. Using the results of this test, the Contractor shall then install the required amount of supplemental anodes in accordance with sections 9.0-11.0 of STI-RP.

At the conclusion of the installation, the Contractor shall verify that the supplemental anode installation was successful by performing a Verification of System Operation per Section 13.0 of STI-RP and Section 01101 of this specification, and completing the record keeping form specified in that section.

All work shall be in accordance with current NACE recommended practices and Federal and State requirements. All installation work shall be completed by an ICC Licensed Petroleum Installer certified with NHDES.

All cathodic protection system repairs and upgrades shall be conducted in accordance with the health and safety requirements as presented in Section 01100.

Repairs shall include trenching, excavation, backfill, wiring, verification of system operation, and reporting.

4.3. Materials

The Contractor shall, unless stated otherwise in this document, provide and pay for all materials, labor, tools, equipment, and all other services and facilities required to execute and complete the specified work project within the allotted timeframe.

4.4. Reporting

All reports shall be provided to the State within three (3) days of test completion. Reports shall include those items specified in paragraph 4.3 in this Section, and a general summary of the work performed.

5. Section 01104 - Cathodic Protection System Troubleshooting Specifications

Section Includes:

A. Description;
B. Troubleshooting; and
C. Reporting.

5.1. Description

This section provides troubleshooting procedures for existing State underground storage tank cathodic protection systems. The Contractor will perform industry standard tests on the systems and provide reports and recommendations with the findings.

5.2. Troubleshooting

The Contractor shall perform a Current Requirements Test in accordance with Section 8.0 of Recommended Practice for the Addition of Supplemental Anodes to STI-P3 USTs, dated August 1, 2001 and published by the Steel Tank Institute.

5.3. Reporting

Within three (3) days of completing the test outlined in paragraph 2.2, the Contractor shall provide a report to the State outlining the results of the Current Requirements Test, indicating the final current measurement.

If the final current requirement measured is less than 30 milliamperes (0.030 amperes), the State may choose to proceed with additional testing.

If the final current requirement is measured greater than 30 milliamperes (0.030 amperes), the State may choose to proceed with additional investigation of the system to determine if the tank system is "grounded" or has an electrochemical connection with other underground or above ground equipment or installations. In this case, the Contractor shall, as part of this scope of work, provide a recommendation, and work scope for additional invasive investigations.

All services performed under this Contract(s) shall be performed between the hours of 8:00 A.M. and 4:00 P.M. unless other arrangements are made in advance with the State. Any deviation in work hours shall be pre-approved by the Contracting Officer. The State requires ten-day advance knowledge of said work schedules.

Per Bid # 2051-18
to provide security and access to respective work areas. No premium charges will be paid for any off-hour work.

The Contractor shall not commence work until a conference is held with each agency, at which representatives of the Contractor and the State are present. The conference will be arranged by the requesting agency (State).

The State shall require correction of defective work or damages to any part of a building or its appurtenances when caused by the Contractor’s employees, equipment or supplies. The Contractor shall replace in satisfactory condition all defective work and damages rendered thereby or any other damages incurred. Upon failure of the Contractor to proceed promptly with the necessary corrections, the State may withhold any amount necessary to correct all defective work or damages from payments to the Contractor.

The work staff shall consist of qualified persons completely familiar with the products and equipment they shall use. The Contracting Officer may require the Contractor to dismiss from the work such employees as deems incompetent, careless, insubordinate, or otherwise objectionable, or whose continued employment on the work is deemed to be contrary to the public interest or inconsistent with the best interest of security and the State.

The Contractor or their personnel shall not represent themselves as employees or agents of the State.

While on State property, employees shall be subject to the control of the State, but under no circumstances shall such persons be deemed to be employees of the State.

All personnel shall observe all regulations or special restrictions in effect at the State Agency.

The Contractor’s personnel shall be allowed only in areas where services are being performed. The use of State telephones is prohibited.

**PRICING STRUCTURE**

<table>
<thead>
<tr>
<th>County</th>
<th>Sec. 01101 Cathodic System Testing and Reporting</th>
<th>Sec. 01101 Additional Tank(s) Per Site</th>
<th>Sec. 01102 Cathodic System Design</th>
<th>Sec. 01103 Mobilization/Demobilization (to and from the site and soil resistivity testing)</th>
<th>Sec. 01103 (2) Pre-Package 17# Anodes Pricing to include site repairs: trenching, excavation, backfill, wiring, verification of system operation, and reporting</th>
<th>Sec. 01103 (4) Pre-Package 17# Anodes Pricing to include site repairs: trenching, excavation, backfill, wiring, verification of system operation, and reporting</th>
<th>Sec. 01103 (6) Pre-Package 17# Anodes Pricing to include site repairs: trenching, excavation, backfill, wiring, verification of system operation, and reporting</th>
<th>Sec. 01104 Cathodic System Troubleshooting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belknap County</td>
<td>$325.00</td>
<td>$50.00</td>
<td>$325.00</td>
<td>$1,600.00</td>
<td>$2,500.00</td>
<td>$3,300.00</td>
<td>$5,600.00</td>
<td>$450.00</td>
</tr>
<tr>
<td>Carroll County</td>
<td>$325.00</td>
<td>$50.00</td>
<td>$325.00</td>
<td>$1,950.00</td>
<td>$2,500.00</td>
<td>$3,300.00</td>
<td>$5,600.00</td>
<td>$450.00</td>
</tr>
<tr>
<td>Cheshire County</td>
<td>$325.00</td>
<td>$50.00</td>
<td>$325.00</td>
<td>$1,600.00</td>
<td>$2,500.00</td>
<td>$3,300.00</td>
<td>$5,600.00</td>
<td>$450.00</td>
</tr>
<tr>
<td>Coos County</td>
<td>$325.00</td>
<td>$50.00</td>
<td>$325.00</td>
<td>$2,450.00</td>
<td>$2,500.00</td>
<td>$3,300.00</td>
<td>$5,600.00</td>
<td>$450.00</td>
</tr>
<tr>
<td>Grafton County</td>
<td>$325.00</td>
<td>$50.00</td>
<td>$325.00</td>
<td>$1,950.00</td>
<td>$2,500.00</td>
<td>$3,300.00</td>
<td>$5,600.00</td>
<td>$450.00</td>
</tr>
<tr>
<td>Hillsborough County</td>
<td>$325.00</td>
<td>$50.00</td>
<td>$325.00</td>
<td>$1,350.00</td>
<td>$2,500.00</td>
<td>$3,300.00</td>
<td>$5,600.00</td>
<td>$450.00</td>
</tr>
<tr>
<td>Merrimack County</td>
<td>$325.00</td>
<td>$50.00</td>
<td>$325.00</td>
<td>$1,650.00</td>
<td>$2,500.00</td>
<td>$3,300.00</td>
<td>$5,600.00</td>
<td>$450.00</td>
</tr>
<tr>
<td>Rockingham County</td>
<td>$325.00</td>
<td>$50.00</td>
<td>$325.00</td>
<td>$1,350.00</td>
<td>$2,500.00</td>
<td>$3,300.00</td>
<td>$5,600.00</td>
<td>$450.00</td>
</tr>
<tr>
<td>Stafford County</td>
<td>$325.00</td>
<td>$50.00</td>
<td>$325.00</td>
<td>$1,600.00</td>
<td>$2,500.00</td>
<td>$3,300.00</td>
<td>$5,600.00</td>
<td>$450.00</td>
</tr>
<tr>
<td>Sullivan County</td>
<td>$325.00</td>
<td>$50.00</td>
<td>$325.00</td>
<td>$1,750.00</td>
<td>$2,500.00</td>
<td>$3,300.00</td>
<td>$5,600.00</td>
<td>$450.00</td>
</tr>
</tbody>
</table>

Per Bid # 2051-18