

ADVERTISEMENT FOR BIDS

City of Bruce
Owner

P.O. Box 667, Bruce, MS 38915
Address

sealed BIDS for 250,000 GALLON GROUND FIRE PROTECTION WATER TANK PAINTING (ARC #MS-18398) will be received by the City of Bruce at the City Hall in Bruce, MS until NOVEMBER 10, 2016 @ 10:00 AM, and then at said office publicly opened and read aloud.

The CONTRACT DOCUMENTS, consisting of the Advertisement for Bids, Information for Bidders, Bid, Bid Bond, Agreement, Payment Bonds, Performance Bond, Notice of Award, Notice to Proceed, Change Order, General Conditions, Supplemental General Conditions, Drawings, Specifications and Addenda may be examined at the following locations.

- (1) Willis Engineering, Inc. 133 South Mound St., Grenada, MS., 38901
- (2) A B C Plan Room, P.O. Drawer 16522, Jackson, MS 39236
- (3) Associated General Contractors, P.O. Box 12367, Jackson, MS 39236-2367
- (4) Dodge Room, 2745 S. Mendenhall Rd., Memphis, TN 38115

Copies of the CONTRACT DOCUMENTS may be obtained at the office of Willis Engineering, Inc., located at 133 South Mound Street, or P.O. Box 160, Grenada, Mississippi upon payment of \$ 50.00 for each set, pre-paid non-refundable. **(CONTRACTORS SUBMITTING A BID MUST BE ON ENGINEER'S BIDDERS LIST FOR BID TO BE OPENED.)**

In order to comply with HUD Section 3 requirements set forth in 24 CFR 135 of the Federal Regulations, Section 3 Business Concerns are solicited to bid on this contract as prime contractors and are encouraged to make inquiries regarding potential subcontracting opportunities to Section 3 Business Concerns.

Rudy Pope
Mayor

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Please send bill and proof of publication to the City of Bruce.

SURFACE PREPARATION & COATING

BRUCE-250K GROUND FIRE PROTECTION

STEEL WATER STORAGE TANK

1. SCOPE:

Surface preparation and high performance coatings application to a steel water storage tank as noted on the drawings and as specified herein. The contractor shall furnish all labor, material and equipment required to complete the project in a manner satisfactory to the Engineer/Owner.

2. APPLICABLE PUBLICATIONS AND REFERENCES:

The publications listed below form a part of this specification to the extent referenced. The publications referred to in text by the basic designation only.

ASTM D 16 Terminology Relating to Paint, Varnish, Lacquer, and related Products
AWWA D102-06 Coating Steel Water-Storage Tanks
NACE RPO188-99 Discontinuity (Holiday) Testing of New Protective Coatings on Conductive Substrates
SSPC-PA-2 Measurement of Dry Coating Thickness with Magnetic Gages
SSPC-SP10/NACE 2 Near-White Metal Blast Cleaning
SSCP-SP1 Solvent Cleaning
SSPC-SP2 Hand Tool Cleaning
SSPC-SP3 Power Tool Cleaning
SSPC-SP 12/NACE 5 Surface Preparation and Cleaning of Metals by Waterjetting Prior to Recoating
AWWA C 652-02 Disinfection of Water Storage Facilities

3. DEFINITIONS:

1. Definition of Painting Terms: ASTM D16, unless otherwise specified
2. Coatings: Paint or heavy duty finishes for use on surfaces subject to interior and exterior exposure, submergence, high moisture, or splash, including primers, intermediate coats, and finish coats.
3. Interior Wet: Interior surfaces subject to immersion or splash, including the interior roof structure.
4. Interior Dry: Interior surfaces subject to normal temperature, humidity and condensation.
5. First Coat: Shop primer or field primer.
6. Second, Third, Intermediate, or Finish Coats: Successive finish coats applied over the first coat.
7. DFT: Dry Film Thickness as measured in Mils (1/1000 of an inch)

4. QUALITY ASSURANCE

A. Certification Requirements:

1. All coatings shall conform to OSHA requirements for allowable exposure to lead and other hazardous substances.

B. Product Manufacturer:

1. Manufacturer shall be a company that specializes in producing high quality industrial coating materials. This company shall have 10 years or more experience demonstrated by case histories in the designated field of application.

C. Applicator Qualifications:

1. Engage an experienced applicator with 5 years or more experience who has successfully completed coating system applications similar in material and extent to those indicated.

D. Single Source Responsibility:

1. Provide coating material and thinners produced by the same manufacturer for each system on all surfaces of the tank.

E. Field Painting Pre-Application Meeting:

Hold a pre-application meeting before the start of field surface preparation and coating application. Require attendance of parties directly affecting work of this section, including the engineer, applicator, inspector, and coating manufacturer's representative. Review the specifications to insure each parties responsibilities are understood. Subjects to be discussed are: environmental requirements, protection of surfaces not scheduled to be coated, surface preparation, application, disinfection, repair, field quality control, cleaning, protection of coating systems, annual inspection, coordination with other work and any other areas of concern expressed at the meeting.

5. DELIVERY, STORAGE AND HANDLING

A. Material shall be delivered to the site in original containers with labels intact and seals unbroken. Labels should provide the following information: material name, coating manufacturer, color name and number, batch or lot number, date of manufacture, mixing and thinning instructions.

B. All coatings shall be stored in an enclosed structure to protect them from weather and excessive heat or cold. Flammable coatings must be stored to conform to City, County, State and Federal safety codes for flammable coatings or paint materials. At all times coatings shall be protected from freezing.

C. All empty containers shall be disposed of in accordance with local, state and federal regulations.

6. PROJECT/SITE CONDITIONS

A. Climate:

No paint shall be applied when the air or surface temperature, as measured in the shade, is below that which is recommended by the manufacturer. Paint shall not be applied to wet or damp surfaces, and shall not be applied in rain, snow, fog, mist, or when the surface temperature will be less than 5 F above the dew point. No paint shall be applied when it is expected that the surface temperature will drop below the manufacturer's recommendation within 2 - 4 hours after the application of the paint. Dew or moisture condensation should be anticipated, and if such conditions are prevalent, painting shall be delayed until it is certain that the surfaces are dry. In addition, the days painting shall be completed well in advance of the probable time of day when moisture condensation will occur in order to permit the film the required drying time as specified by the manufacturer prior to the formation of moisture.

B. Ventilation:

Provide ventilation during coating curing stage in confined or enclosed areas in accordance with AWWA D102-06, Section A.7.5. Forced air ventilation shall be maintained for a minimum of four (4) days following interior coating application to assist in curing process.

C. Dust and Contaminants:

Schedule coating work to avoid excessive dust and airborne contaminants. Protect work areas from excessive dust and airborne contaminants during coating application and curing.

7. PRODUCTS

A. Manufacturers:

Induron Coatings
P.O. Box 2371
Birmingham, AL 35201-2371
Customer Service: 800-324-9584
Website: Induron.com

B. Materials:

Coating products of Induron Coatings, Inc. are listed as a standard of quality and performance. Only coatings that meet or exceed the performance of these specified coatings may be submitted for use. No substitutions will be considered unless the Engineer/Owner has received a written request for approval at least 10 days prior to the bid date for receipt of bids. Each request shall include the name of the specified material; and a complete description of the proposed substitute including performance and test data, cure times, recoat windows, and generic composition. No request for substitution shall be considered that would decrease film thickness, offer a change in the generic type of coating specified or the number of coats specified. The decision of the Engineer/Owner regarding approval or disapproval of the proposed substitution shall be final.

C. Colors: Colors shall be as selected by the Engineer/Owner.

D. Thinning, Mixing and Tinting:

1. Where thinning is necessary, only the products of the manufacturer furnishing the coating will be allowed. All thinning shall be done in strict accordance with the coating manufacturer's recommendations.
2. Mix in accordance to the manufacturer's recommendations.
3. Each coat shall be slightly different in shade than the preceding coat, unless otherwise noted.

8. EXECUTION

A. Examination:

Examine areas and conditions under which coating systems are to be applied. Notify Engineer of areas or conditions that are not acceptable. Do not begin surface preparation or application until unacceptable areas or conditions have been corrected.

B. Protection of Surfaces Not Scheduled to be Coated:

Protect surrounding areas and surfaces not scheduled to be coated from damage during surface preparation and application of coatings. Immediately remove coatings that fall on surrounding areas and surfaces not scheduled to be coated.

C. Coating Systems:

a. Steel Exterior:

1. System: Rust Inhibitive Pigmented Alkyd Primer/Alkyd Aluminum/Alkyd Aluminum
2. Surface Preparation: SSPC-SP12 WJ-4. Method of cleaning shall be Low Pressure Water Cleaning at minimum 3500 psig and maximum 5000 psig to remove all chalk, dust, dirt, loose paint, and any other foreign matter. All areas of peeling, flaking or otherwise failing paint shall be cleaned in accordance with SSPC-SP2 Hand Tool Cleaning or SSPC-SP3 Power Tool Cleaning. All edges shall be feathered.
3. Spot Prime: P30 Universal Primer applied to achieve 2.0-3.0 dry mils. Color: Tan.
4. 1st Coat: Armorlux Aluminum applied to achieve 1.0-2.0 dry mils. Color: Aluminum.
5. 2nd Coat: Armorlux Aluminum applied to achieve 1.0-2.0 dry mils. Color: Aluminum.
6. Lettering/Logo: Two coats Armorlux 2500 Enamel applied to achieve 1.5-2.5 dry mils per coat. Color: As Selected.
7. Total System Minimum DFT: 3.0 mils excluding the existing coating.

b. Steel Interior Wet:

1. System: Two Coat Epoxy System
2. AWWA D102-06: Inside Coating System 1
3. ANSI/NSF 61 Certified
4. Surface Preparation: SSPC-SP10 Near White Blast Cleaning
5. Surface Profile: 1.5-2.5 mils
6. Primer: Ceramapure TL-70 Epoxy applied to achieve 7.0-9.0 dry mils. Color: Tan.
7. Stripe Coat: Ceramapure TL-70 applied by brush to achieve 3.0-5.0 dry mils. Color: Blue.
8. 2nd Coat: Ceramapure TL-70 Epoxy applied to achieve 7.0-9.0 dry mils. Color: Blue.
9. Total System Minimum DFT: 14 mils.

D. Application

1. Prepare steel substrate in accordance with Coating Manufacturer's instructions.
2. Ensure surfaces are dry.
3. Prior to field touch up of shop primed steel, all surfaces shall be cleaned to remove all surface contamination including oil, grease, dust, dirt and foreign matter. All rusted, abraded, and unpainted areas shall be prepared to specified surface preparation before primer is applied.
4. Abrasive blast cleaned surfaces shall be coated the same day as the cleaning is performed. If rust or contamination appears as a result of delay in primer application, the surface shall be cleaned to specified surface preparation before primer is applied.
5. Apply coatings in accordance with coating manufacturer's instructions.
6. Mix and thin coatings, including multi-component materials, in accordance with manufacturer's instructions.
7. Keep containers closed when not in use to avoid contamination.
8. Do not use mixed coatings beyond pot life limits.
9. Use application equipment, tools, pressure settings, and techniques in accordance with manufacturer's instructions.
10. After sufficient cure of the field prime coat, apply a stripe coat to the interior wet areas with a brush to critical locations on steel such as welds, corners, and edges using specified intermediate coat.
11. Uniformly apply coatings at spreading rate required to achieve specified DFT.
12. Apply coatings to be free of film defects that would adversely affect performance of the coating system. Apply exterior coatings to be free of characteristics or defect that adversely affect appearance.
13. Interior: Caulk all unwelded roof seams, connections, and crevices to prevent corrosion and staining.

E. Repair

1. Damaged Materials: repair or replace damaged materials and surfaces not scheduled to be coated.
2. Damaged Coatings: Touch-up or repair damaged coatings. Touch-up of minor damage shall be acceptable where the result is not visibly different from adjacent surfaces.
3. Coating Defects: Repair in accordance with coating manufacturer's instructions coatings that exhibit film characteristics or defects that would adversely affect performance or appearance of coating systems.

9. TESTING EQUIPMENT AND PROCEDURES

General:

The Contractor shall have on the project site the following testing equipment. Equipment shall be in calibration and proper working order. Equipment shall be used in accordance with the manufacturers' instructions or as directed by the Engineer. The Engineer shall be notified of time of testing so that he might be present to witness testing. The Contractor shall keep a daily log of environmental conditions, work schedule, and any other pertinent information. The log shall be turned over to the Owner at the end of the project to be included in the permanent record.

1. Sling Psychrometer: Relative humidity and dew point readings shall be taken at intervals throughout the days work. Readings shall be taken at the start of the mornings work, mid day and afternoon. Should environmental conditions change, additional reading shall be taken to assure that coatings are being applied under the conditions as outlined by the coatings manufacturer.
2. Surface Temperature Thermometer: Surface temperatures shall be taken in areas where work is being performed. Surface temperature shall be that as specified by the coatings manufacturer.
3. Replica Tape & Micrometer: Testex X-Course Replica Tape shall be employed to determine the surface profile of blasted surfaces. Surface profile shall be as specified.
4. Dry Film Thickness Measurements: Dry film thickness reading shall be taken with a properly calibrated (per the manufacturer's instructions) Type 1 (magnetic) or Type 2 (electromagnetic) instrument. Dry film thickness reading will be taken and recorded in accordance with guidelines set forth in SSPC-PA2 Measurement of Dry Coating Thickness with Magnetic Gages. The Contractor shall provide ladders, rigging, etc. as necessary to allow the Engineer to spot check paint thickness of each coat.
5. Holiday Detection: After completion of the interior coating system, interior surfaces shall be holiday detected in accordance with NACE RPO188-99 Discontinuity (Holiday) Testing of New Protective Coatings on Conductive Substrates. Holiday detector shall be a Tinker & Rasor Model M-1 or equal. Areas found to have holidays shall be marked and repaired in accordance with the paint manufacturer's instructions. The Engineer shall be notified of time of testing so that he might be present to witness testing.

10. FIRST ANNIVERSARY INSPECTION

1. Owner shall establish and notify contractor giving at least 30 days notice as to the date and method of inspection.
2. If an inspection date has not been established within 13 months after the coating work was completed, the first anniversary inspection shall be considered to be waived.
3. First anniversary inspection shall follow the guidelines set forth in AWWA D102-06 Section 5.2.

BID ITEM NO. 1 – REPAINT INTERIOR – 1 LUMP SUM:

This item of work shall consist of cleaning and painting the interior of the tank as specified, including all labor, materials, and equipment.

BID ITEM NO. 2 – REPAINT EXTERIOR – 1 LUMP SUM:

This item of work shall consist of cleaning and painting the exterior of the tank as specified, including all labor, materials, and equipment.

REPAIRS

BRUCE -250K GROUND FIRE PROTECTION
STEEL WATER STORAGE TANK

1. **DESCRIPTION:**

This work shall consist of cleaning and repair to the top of the concrete foundation, also cleaning and sealing the base of the tank to the concrete foundation.

2. **MATERIALS:**

All materials used for repair of the concrete and sealing of the tank to the concrete foundation shall be a manufactures approved material suitable for the specified work.

3. **BASIS OF PAYMENT:**

The work will not be measured. Payment will be made as 1-Lump Sum including all labor, materials, and equipment required for performing the work specified.

4. **BID ITEM - REPAIRS:**

1 Lump Sum