

ADVERTISEMENT FOR BIDS

Charter Township of Union

2010 S. Lincoln Road

Mount Pleasant, MI 48858

Separate sealed Bids for the painting of one (1) screw pump located in the Charter Township of Union at the Waste Water Treatment Plant will be received by the Charter Township of Union at the Charter Township of Union Isabella Treatment Facility, 5228 South Isabella Road, Mount Pleasant MI 48858 until 10:00 AM Local Time, March 8, 2022 and then at said location publicly opened and read aloud.

The Contract Documents may be examined at the following locations:

Township Website - www.uniontownshipmi.com/departments/publicservice/rfp

Bids received after the above date and time will not be considered. Fax transmittals of Bids will not be accepted.

The Owner reserves the right to waive any informalities or to reject any or all Bids.

No Bidder may withdraw their Bid within 90 days after the actual date of Bid opening.



REQUEST FOR PROPOSALS

Charter Township of Union

Waste Water Treatment Plant – 2022 – Screw Pump Painting

Proposal Due:

March 8, 2022 @ 10:00 a.m. Local Time

Address Proposal to:

Charter Township of Union
Waste Water Treatment Plant – 2022 Screw Pump Painting
Attn: Kim Smith – Public Service Director
5228 South Isabella Road Mt. Pleasant, MI 48858

Inquiry:

Mike Dearing – Waste Water Treatment Plant Superintendent
mdearing@uniontownshipmi.com (989)775-5574

Project Location:

Charter Township of Union Waste Water Treatment Plant
4511 E River Road Mt. Pleasant, MI 48858

Scope of Services:

The Charter Township of Union is seeking a qualified contractor for the painting of one (1) screw pump located at the township's Waste Water Treatment Plant located in Union Township, Isabella County. The information contained below is specific qualifications each contractor must meet in order to provide an accurate proposal.

The owner reserves the right to accept or reject all bids that are received.

Background Information:

The existing Waste Water Treatment Plant contains three screw pumps and operates to provide sanitary sewer treatment to our customers. The screw pump was originally constructed in 2001 and is 42- feet long and 48- inches in diameter. The screw pump is being painted in place. Union Township will remove splash guards located along the side of the pump. Contractor will be responsible to protect upper and lower end bearings, along with electric motor. Contractor will protect existing channel concrete and grout. Contractor will remove or cover overspray that occurs to surrounding concrete outside of flow channel. Union Township will ensure that the bottom of the screw area remain dry from sanitary sewer through the duration of the project.

**Requirements:**

Contractor shall be responsible for including, but are not limited to, all the labor, materials, and equipment necessary for completing the cleaning, preparation, and priming and painting of the screw pump. The following items should be included in each detailed proposal:

- Mobilization/Demobilization
- Surface Preparation
 - Abrasive blast all surfaces to be coated in accordance with SSPC SP10 near white blast cleaning
- Surface Priming and Painting
 - Primer: Tnemac Series 46H413 HB Tneme-Tar 8.0 – 10.0 mils DFT (dry film thickness)
 - Finish: Tnemic Series 46H413 HB Tneme-Tar at 8.0 – 10.0 mils DFT (dry film thickness)
- Site Restoration and/or Cleanup

Product information, screw pump specifications, and screw pump photos are attached.

Screw pumps and site can be viewed/visited by appointment. Contact Mike Dearing WWTP Superintendent at least three days prior to bid due date to set up an appointment.

Mike Dearing, WWTP Superintendent – 989-775-5574 mdearing@uniontownshipmi.com

All cost incurred for testing/mils DFT confirmation shall be the contractor's responsibility. A copy of all testing/mils confirmation shall be provided to the owner upon completion of the project.

Contractor shall provide site clean-up upon completion of duties including restoration and/or repair.

Contractor shall be responsible for discharging water/chemicals/sandblasting materials to acceptable location that will not cause any soil erosion, contamination, or sediment.

Equipment and Materials:

Contractor shall include, but are not limited to, providing all equipment and materials necessary to complete the work outlined above.

Warranty:

The contractor shall provide a guarantee for materials and workmanship for a period of not less than one (1) year following substantial completion on any or all work performed above to the owner.



Services/Materials Not to be Included:

The proposal shall not include providing and or installation of the following items:

- Site accessibility (provided by owner)
- Water Supply (provided by owner)
- Site Electrical

Any additional work to be performed will be completed only upon the written approval of Union Township. Any additional repairs or materials needed upon inspection of the screw pump shall be submitted to Union Township in writing and shall be in accordance with the hourly rates/material cost provided in this proposal. All additional work must be provided in accordance with Union Township Specifications and prior approval by owner.

Schedule:

The commencement of this project will be coordinated with the individual contractor selected. Bids must include a statement by contractor that all work will commence and be completed by July 18, 2022.

Proposal Cost Breakdown:

It is requested that the proposal submitted be submitted as a lump sum bid with all hourly labor costs, and materials associated with each item to be included with the lump sum bid. Payment will be made within 30 days of final completion, inspection, acceptance by owner, and invoicing by the contractor of the project.

Contractor References:

Upon request of the Charter Township of Union bidder shall provide a brief background of the personnel that will be working on this project as well as their qualifications. Each proposal shall include a list of at least three references that the contractor has completed similar contracts for within the last five years.

1. Preparation, and painting may not be subcontracted



PRODUCT PROFILE

GENERIC DESCRIPTION Polyamide Epoxy-Coal Tar

COMMON USAGE High-build corrosion resistant coating providing one coat protection for concrete and steel in a variety of chemical, immersion and underground conditions. Also, when a two-coat application is desired, a low film build option is possible.

COLORS Black

FINISH Semi-gloss

SPECIAL QUALIFICATIONS Conforms to the performance requirements of AWWA C 210 (not for potable water contact).

PERFORMANCE CRITERIA Extensive test data available. Contact your Tnemec representative for specific test results.

COATING SYSTEM

PRIMERS **Steel:** Self-priming or Series 1, 66, N69, N69F, 90-97, H90-97, 161
Galvanized Steel: Series 66, N69, N69F, 161
Concrete: Self-priming, 63-1500, 218

SURFACE PREPARATION

STEEL **Immersion Service:** SSPC-SP10 Near-White Blast Cleaning
Non-Immersion Service: SSPC-SP6 Commercial Blast Cleaning

GALVANIZED STEEL Surface preparation recommendations will vary depending on substrate and exposure conditions. Contact your Tnemec representative or Tnemec Technical Services.

CAST/DUCTILE IRON Contact your Tnemec representative or Tnemec Technical Services.

CONCRETE Allow new concrete to cure for 28 days. Abrasive blast all surfaces referencing SSPC-SP13/NACE 6, ICRI CSP 2-4 Surface Preparation of Concrete and Tnemec's Surface Preparation and Application Guide.

PRIMED SURFACES **Immersion Service:** Scarify the surface with fine abrasive before topcoating if the Series 66, N69 or 161 prime coat has been exposed to sunlight for 60 days or longer.

ALL SURFACES Must be clean, dry and free of oil, grease and other contaminants.

TECHNICAL DATA

VOLUME SOLIDS 75.0 ± 2.0% (mixed)

RECOMMENDED DFT 16.0 to 20.0 mils (405 to 510 microns)
 8.0 to 10.0 mils (200 to 250 microns) for the two-coat option

CURING TIME	Temperature	To Touch	To Recoat (Min./Max)	Immersion
	95°F (35°C)	2 hours	3-14 hours	5 days
	85°F (29°C)	3 hours	4-18 hours	6 days
	75°F (24°C)	4 hours	6-28 hours	7 days
	65°F (18°C)	6 hours	10-50 hours	10 days
	55°F (13°C)	9 hours	16 hrs-3 days	14-16 days
	45°F (7°C)	18 hours	32 hrs-4 days	22-24 days
	35°F (2°C)	26 hours	44 hrs-6 days	28-32 days

Curing time varies with surface temperature, air movement, humidity and film thickness. Use the above times as guidelines only. Scarify the surface with fine abrasive before recoating if the maximum recoat time has been exceeded.

VOLATILE ORGANIC COMPOUNDS

Unthinned: 1.91 lbs/gallon (229 grams/litre)
Thinned 20% (No. 2 Thinner): 2.80 lbs/gallon (335 grams/litre)
Thinned 20% (No. 65 Thinner): 1.91 lbs/gallon (229 grams/litre)

THEORETICAL COVERAGE 1,203 mil sq ft/gal (29.5 m²/L at 25 microns). See APPLICATION for coverage rates.

NUMBER OF COMPONENTS Two: Part A and Part B

MIXING RATIO By volume: One (Part A) to one (Part B)

PACKAGING 5 gallon (18.9L) pails and 1 gallon (3.79L) cans — Order in multiples of 2.

NET WEIGHT PER GALLON 11.74 ± 0.25 lbs (5.32 ± .11 kg) (mixed)

STORAGE TEMPERATURE Minimum 20°F (-7°C) Maximum 110°F (43°C)

TEMPERATURE RESISTANCE (Dry) Continuous 200°F (93°C) Intermittent 250°F (121°C)

SHELF LIFE 12 months at recommended storage temperature.

FLASH POINT - SETA Parts A & B: 81°F (27°C)

HEALTH & SAFETY Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product.
Keep out of the reach of children.

HI-BUILD TNEME-TAR® | SERIES 46H-413

APPLICATION

COVERAGE RATES

Conventional Build

	Dry MILS (MICRONS)	Wet MILS (MICRONS)	Sq Ft/Gal (m ² /Gal)
Suggested	18.0 (455)	24.0 (610)	69 (6.4)
Minimum	16 (405)	21.5 (545)	75 (7.0)
Maximum	20.0 (510)	27.0 (685)	59 (5.5)

Two-Coat System (DFT each coat)

	Dry MILS (MICRONS)	Wet MILS (MICRONS)	Sq Ft/Gal (m ² /Gal)
Suggested	9.0 (225)	12.0 (300)	134 (12.5)
Minimum	8.0 (200)	11.0 (275)	150 (14.0)
Maximum	10.0 (250)	13.0 (325)	120 (11.2)

Allow for overspray and surface irregularities. Film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance.

MIXING

Power mix contents of each container, making sure no pigment remains on the bottom. Pour a measured amount of Part B into a clean container large enough to hold both components. Add an equal volume of Part A to Part B while under agitation. Continue agitation until the two components are thoroughly mixed. Do not use mixed material beyond pot life limits. **Note:** Both components should be above 50°F (10°C) prior to mixing. For application to surfaces between 35°F to 50°F (2°C to 10°C), allow mixed material to stand thirty (30) minutes and restir before using. For optimum application properties, the material temperature should be above 60°F (16°C).

THINNING

Use No. 2 Thinner. For air spray, thin up to 20% or 1 1/2 pints (760 mL) per gallon; for airless spray, thin up to 5% or 1/4 pint (190 mL) per gallon. A maximum of 20% of No. 65 Thinner may be used to comply with VOC regulations.

POT LIFE

16 hours at 35°F (2°C) 6 hours at 55°F (13°C) 2 hours at 75°F (24°C) 3/4 hour at 95°F (35°C)

APPLICATION EQUIPMENT

Air Spray

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
DeVilbiss JGA	E .070"	704 or 765	5/16" or 3/8" (7.9 or 9.5 mm)	1/2" (12.7 mm)	75-100 psi (5.2-6.9 bar)	20-40 psi (1.4-2.8 bar)

Low temperatures or longer hoses require higher pot pressure.

Airless Spray

Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Manifold Filter
0.017"-0.021" (430-530 microns)	3400-4000 psi (234-276 bar)	3/8" or 1/2" (9.5 or 12.7 mm)	60 mesh (250 microns)

Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions.

Note: Application over inorganic zinc-rich primers: Apply a wet mist coat and allow tiny bubbles to form. When bubbles disappear in 1 to 2 minutes, apply a full wet coat at specified mil thickness.

Brush: Brushing is recommended on small areas only. Ladle material on and then use flat side of brush to spread. Do not brush out to thin film as with conventional coatings.

SURFACE TEMPERATURE

Minimum 35°F (2°C) Maximum 120°F (49°C)
The surface should be dry and at least 5°F (3°C) above the dew point. Coating won't cure below minimum surface temperature.

CLEANUP

Flush and clean all equipment immediately after use with the recommended thinner or xylol.

WARRANTY & LIMITATION OF SELLER'S LIABILITY: Tnemec Company, Inc. warrants only that its coatings represented herein meet the formulation standards of Tnemec Company, Inc. THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The buyer's sole and exclusive remedy against Tnemec Company, Inc. shall be for replacement of the product in the event a defective condition of the product should be found to exist and the exclusive remedy shall not have failed its essential purpose as long as Tnemec is willing to provide comparable replacement product to the buyer. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, ENVIRONMENTAL INJURIES OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. Technical and application information herein is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.









05/05/2011