

**Request for Proposals**  
**for**  
**Installation of Digester Number 6**  
**for**  
**Sevier Solid Waste, Inc.**

July 7, 2023

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# 1. INSTRUCTION TO PROPOSERS

## 1.1 PROPOSAL SUBMITTAL

Sevier Solid Waste, Inc. will receive Proposals until 2:00 p.m., Tuesday, July 18, 2023 where they will be publicly opened in the office of Sevier Solid Waste, Inc. All Proposals must be sealed in envelopes and addressed to:

Sevier Solid Waste, Inc,  
1831 Ridge Rd.  
Pigeon Forge, TN 37863  
(865) 453-5676

All Proposals must be plainly marked, "Install of Digster." **Proposers must submit one (1) copy of the Proposal. No faxed Proposals will be accepted.**

A copy of the Request for Proposals may be obtained from:

Sevier Solid Waste, Inc.  
1831 Ridge Rd.  
Pigeon Forge, TN 37863  
leonard\_t\_2000@yahoo.com

Proposals must be made on the Proposal Forms, and in accordance with the Instructions to Proposers and the General Specifications furnished by the Sevier Solid Waste, Inc. in this Request for Proposals. A copy of the Proposal Forms is attached hereto. An award, if made, will be made to the successful proposer(s) whose Proposal is most advantageous for the Sevier Solid Waste, Inc. Sevier Solid Waste, Inc. reserves the right to accept or reject any and all Proposals.

Please provide the following information:

- Name of Company
- Address of main office
- Telephone Number for office
- Name and Title of Contact Person

If your firm is selected for the project, you will be required to provide a financial statement from your CPA, attesting to your financial solvency

Please provide a brief overview of your company including the number of years the company has done this type of work.

Please provide a listing of jobs of this type that your company has completed

within the last three (3) years.

**Proposals received after the opening time will be returned unopened.**

## **1.2 SITE INSPECTION**

It is the responsibility of the Proposer before submitting a Proposal:

- A. To examine thoroughly the RFP and other related data identified in the Proposal Documents.
- B. To visit the site and to become familiar with and satisfy Proposer as to the general, local and site conditions that may affect cost, progress, performance or furnishing of labor for the Work.
- C. A set of plans from the manufacturer is available for review at the time of site visit. Copies can be obtained, all costs shall be incurred by bidder.

## **1.3 PRICES**

The proposers shall submit unit prices that equal the lump sum bid as indicated on the Proposal Forms. The quantities listed on the Proposal Forms are for the purposes of comparison and evaluation of Proposals.

## **1.4 WITHDRAWAL OF PROPOSALS**

Proposals may be withdrawn on written request received from proposers prior to the time fixed for opening. After Proposals have been opened, they cannot be withdrawn for a period of 30 days.

## **1.5 PRE-AWARD COSTS**

This Request for Proposals does not commit Sevier Solid Waste, Inc. to pay any costs incurred or associated with the development, preparation, review, submission, and/or presentation of the Proposals submitted by the proposer. All costs incurred by the proposer in responding to this request are the responsibility of the proposer.

## **1.6 REJECTION OF PROPOSERS**

Sevier Solid Waste, Inc. reserves the right to reject any Proposals if investigation of the proposer fails to satisfy the Board that such a proposer is properly qualified to carry out the obligations and to complete the work contemplated therein. A Proposal may be rejected if it shows serious omissions, alterations in form, additions not called for, conditions or unauthorized alternates, or irregularities of any kind.

The Board reserves the right to reject any or all Proposals for any reason and to waive any technical errors as may be deemed best for the interests of Sevier Solid Waste.

## 1.7 INSURANCE

Sevier Solid Waste, Inc. shall require that the Contractor obtain and maintain the minimum amounts of coverage in full force and effect for as long as is necessary to fund the Contractors indemnification and defense obligation.

By submitting its Proposal to Sevier Solid Waste, Inc. the Proposer acknowledges that it has read and understands the insurance requirements for the Proposal.

### **Insurance:**

**(a) Worker's Compensation:** The Contractor shall procure and shall maintain during the life of the Contract Agreement, Worker's Compensation Insurance for all of the Contractor's employees to be engaged in work on the Project under this Contract. In case any such Work is sublet, the contractor shall require the subcontractor similarly to provide Worker's Compensation Insurance for all of the latter's employees to be engaged in such Work unless such employees are covered by the protection afforded by the Contractor's Worker's Compensation Insurance. Worker's Compensation Insurance shall include Broad Form All States Endorsement and Voluntary Compensation. The amount of insurance shall not be less than the following:

<b>Each Accident</b>	\$100,000
<b>Disease - Policy Limit</b>	\$500,000
<b>Disease - Each Employee</b>	\$100,000

The Worker's Compensation Insurance shall have liability limits sufficient to satisfy judgment (s) under the Tennessee Worker's Compensation Law, at any time this contract and change orders are in effect and to further comply in all respects with the requirements for Worker's Compensation Insurance and laws in the State of Tennessee.

**(b) Comprehensive General Liability:** The Contractor shall procure and shall maintain during the life of the Contract Agreement, such Comprehensive General Liability and Broad Form Property Damage Insurance as shall protect Contractor and any subcontractor performing Work covered by this Contract from claims for damages for bodily injury, including accidental death, as well as from claims for property damages, which may arise from operations under the Contract Agreement, whether such operations are by the Contractor or by any subcontractor or by anyone directly or indirectly employed by either of them. The amount of insurance

shall not be less than the following:

<b>General Aggregate</b>	\$1,000,000
<b>Products Comp/Ops Aggregate</b>	\$1,000,000
<b>Personal and Advertising Injury</b>	\$1,000,000
<b>Each Occurrence</b>	\$1,000,000
<b>Fire Damage (Any one fire)</b>	\$50,000
<b>Medical Expenses (Any one person)</b>	\$5,000

**Additional Umbrella-Aggregate** \$2,000,000

(c) Automobile Liability: The Contractor shall procure and shall maintain during the life of the Contract Agreement, Comprehensive Automobile Liability Insurance. The insurance shall include coverage for owned, non-owned and hired vehicles. Amounts shall not be less than the following:

Comprehensive Single Limits (CSL)	\$1,000,0000
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(d) Builder's Risk: The Contractor shall procure and shall maintain during the life of the Contract Agreement, Builder's Risk Insurance to protect the interest of the Owner, Contractor, and subcontractors against loss by fire, vandalism, malicious mischief, and all hazards included in a standard Extended Coverage Endorsement. The amount of the insurance shall at all times equal or exceed the full amount of the Contract. The policies shall be in the names of the Owner and the Contractor.

(e) Certificates of Insurance: Certificates acceptable to the Owner shall be attached to the signed Contract Documents when they are transmitted to the Owner for execution. All certificates of insurance issued in conjunction with this contract shall contain the statement that "Coverages afforded under the policies shall not be cancelled unless at least 60 days notice prior to cancellation written notice has been given to the Owner, as cancellation language shall be deleted from the certificate." The Owner shall be a named insured.

## **1.8 INFORMATION NOT GUARANTEED**

Information given in the Request for Proposals relating to existing conditions is from the best information available. All such information on existing conditions is furnished only for the information and convenience of the proposer, and the proposer should use his/her own judgement and prerogatives in evaluating, checking and verifying the information provided.

## **1.9 RIGHT TO RESEARCH WORK**

Prior to or after receipt of the Proposer's Proposal, Sevier Solid Waste, Inc. shall have the right to research work performed by the Proposer. This research effort will be conducted by Sevier Solid Waste, Inc. personnel and their representatives as deemed appropriate by Sevier Solid Waste, Inc., which may include site visits and interviews with anyone involved with such projects.

## **2. GENERAL SPECIFICATIONS**

### **2.1 BACKGROUND**

Sevier Solid Waste, Inc., is required by the Solid Waste Management Act of 1991 to plan for the collection and disposal of solid waste generated within Sevier County. The Sevier Solid Waste, Inc. operates the Composting Facility and Construction and Demolition Landfill at 1855 Ridge Rd., Pigeon Forge, TN 37863.

This is for the complete install of a new digester that will be on site when the construction is expected to start.

### **2.2 SCOPE OF SERVICES**

#### **2.2.1 Description**

- A. The work to be performed under this Contract shall consist of furnishing all labor, materials, tools, equipment and incidentals and performing all Work required to design, install shell sections, frames, tires, gear and pinion, and all other necessary items complete the installation of digester number 6.
- B. The work to be performed under this Contract shall also consist with the plans that are provided in this bid. The work shall include the installation of all items that are included in the plans.
- C. This shall include setting carrying roller base and drive frames at a slope of 1/16" per foot. Install carrying rollers, thrust rollers, and drive assemblies on set bases.
- D. Assemble sections into three subsections on drive rolls. Laser bore sight for alignment and fully weld sections together while on drive rolls.
- E. Set subsections on support rollers and temporary tower supports. Laser bore sight for alignment and fully weld subsections together while on support rollers.

Pre Job Scope:

- 1. Make tower or support sections, and 14' saddle according to shell drawing specifications.
- 2. Set up flat and level area near digester erection site for drive rolls and assemble of subsections.
- 3. Set up flat staging area for assembly of support rollers, bearing housings and related components.



4. Set up staging area for temporary storage of shell sections, support bases, gears and drive components, roller assemblies and all other related components.
5. Coordinate unloading and placement of all components in staging or laydown area at the Sevier Solid Waste, Inc. job site.
6. Establish at least two fixed or permanent reference points with known NEZ coordinates for all layout measurements and possible future alignments, installations or modifications.
7. Cross check all components against docket list for complete match. Resolve any discrepancies.
8. Obtain accurate measurements of new components, piers, pier tops, bases and roller assemblies for match fit to each other or other components. Resolve any discrepancies.
9. Make a detailed plan and elevation drawing of digesters and piers for reference pertaining to general assembly, and elevation including exact location of gear tires during the proposed work.

JOB SCOPE:

1. Review job safety requirements with customer representatives.
2. Set roller bases on feed and discharge piers of RDR-6.
  - a. Establish axial and radial centerlines on bases.
  - b. Shim for elevation and slope.
3. Set pinion and drive bases on unit RDR-6.
  - a. Shim for elevation and slope.
4. Make forms for grout cap on all bases. Forms are to be 6 inches from outside of base and even with top edge of the base frames.
5. Pour grout on all bases using 5000 psi grout. Trawl surfaces smooth and 45 degree angles on corners.
6. Set all roller assemblies on feed and discharge bases on Unit D6.
7. After sufficient cure time, set all roller assemblies on feed and discharge bases of D6.
8. Set discharge thrust roller in final running position.
9. Set feed thrust roller in approximate position on base.
10. Assemble coupling for pinion.
11. Assemble coupling for gearbox.
12. Installation of the 350 Hp motor.
  - a. Install motor on motor base.
13. Assemble sub-sections
  - a. Align circumferential match marks if they are

- included on shell sections.
  - b. Laser align centers using dogs and push pulls for adjustments.
  - c. Weld sub sections.
  - d. Take out hardware and install wear bars between the two subsections.
- 14. Install Feed tire in approximate position on shell.
  - a. Install filler bars.
  - b. Final position using temporary blocks and adjusting bolts.
- 15. Install feed sub-sections on the feed rollers and towers.
- 16. Take the two middle sections and place on drive rolls for assembly.
  - a. Align circumferential match marks if they are included on shell sections.
  - b. Laser align centers using dogs and push pulls for adjustments.
  - c. Weld out seams.
  - d. Remove hardware and install wear bars.
- 17. Install middle sub-sections to feed sub-sections.
  - a. Align circumferential match marks if they are included on shell sections.
  - b. Laser align centers using dogs and push pulls for adjustments.
  - c. Weld out seams.
  - d. Remove hardware and install wear bars.
- 18. Place discharge section and discharge tire section on the drive rolls.
  - a. Align circumferential match marks if they are included on the shell sections.
  - b. Laser align centers using dogs and push pulls for adjustments.
  - c. Weld out seams.
  - d. Remove hardware and install wear bars.
- 19. Install Discharge tire in approximate position on shell.
  - a. Install filler bars.
  - b. Initial position using temporary blocks and adjusting bolts.
  - c. Final tire run-out adjustments and installation of retaining hardware will be completed after complete placement and welding of shell sections.
- 20. Install two discharge sub-sections on discharge rollers,

- connect with middle section.
- a. Align circumferential match marks if they are included on shell sections.
  - b. Laser align centers using dogs and push pulls for adjustments.
  - c. Weld out seams.
  - d. Remove hardware and install wear bars.
21. Move feed thrust roller into position, 1/2" clearance.
  22. Install bull gear halves on the gear flange.
    - a. Secure the gear with all other adjustment bolts.
    - b. Dial in the gear on the edge of gear teeth
  23. Push pinion into the gear teeth.
    - a. Bolt down the pinion.
    - b. Shim pinion into position.
  24. Line up the gear box hub with the pinion hub.
    - a. Ensure both hubs are even on all axis.
    - b. Bolt down gear box.
    - c. Install coupling.
    - d. Completely coat the grid coupling with grease.
    - e. Install coupling cover caps.
  25. Install motor hub to input shaft of gearbox hub.
    - a. Ensure evenly done, both hubs, top, bottom, side to side.
    - b. Bolt down motor.
    - c. Install coupling.
    - d. Completely coat the grid coupling with grease.
    - e. Install coupling cover caps.
  26. Complete the welding of all five seams.
  27. Install bull gear drip trays.
    - a. Feed end of bull gear and discharge of bull gear.
  28. Install stanchion tower.
  29. Install gear guard.
    - a. Connect stanchion tower to gear guard.
  30. Install graphite block holders on the down-turning side of the feed end and the discharge end trunnion rollers.
  31. Install grease into all trunnion roller housings, pinion housings and thrust roller housings.
  32. Install graphite strips under both tires with angel stops.
  33. Install Synthetic oil in gearbox.
  34. Double dial in the feed tire and discharge tire.
  35. Install bar blocks, tire blocks, side traps and banana bars on both tires, locking it in.

36. Install four (4) actuator door assemblies on Unit RDR-6.
  - a. Install actuators; complete with end mounts.
  - b. Install piping and air lines from actuators to air coupling hub.
  - c. Weld out completely.
  - d. Install plastic and hardline airlines to main compressor.
37. Install root blower assembly to roots blower unit.
38. Remove all spider bracing for disposal.
39. Install all required safety guards and covers for rotating equipment.
40. Install drive gear and pinion covers and guards.
41. Final skewing for running operations.
42. Clean up work area, present job for approval, tear down equipment.

### **2.2.2 Time Table**

Provide a detailed schedule for completion of the project in sufficient detail to reflect work in the various project stages, including but not limited to design, shop drawings, fabrication drawings, delivery of components, installations, startup, testing etc.

### **2.2.3 Record Documents**

Record documents include, but are not limited to:

1. Drawings;
2. Specifications;
3. Change orders and other modifications to the Contract;
4. Test Records

### **2.2.4 Project Maintenance and Warranty**

- A. The Contractor shall warrant for a period of one year that the completed Work is free from all defects due to faulty products or workmanship and the Contractor shall promptly make such corrections as may be necessary by reason of such defects.
- B. During the Warranty Period, the Contractor shall, at Contractor's own expense, furnish all labor, materials, tools and equipment required and shall make such repairs and removals and shall perform such work or reconstructions as may be made necessary

to remedy any warranty defect with the repair sections only by Owner within the Warranty period; provided, however that Contractor's liability for removal and installation costs associated with the foregoing remedy shall not exceed the Contract Price. The same warranty obligations and conditions as expressed herein shall extend to any replacement parts and labor furnished by Contractor hereunder.

### **2.3 ASSIGNMENT OR SUBLETTING**

Neither the Contract nor any of the payments to become due under it shall be assigned in whole or in part by the Contractor, nor shall any part of the work be sublet by the Contractor, without the prior written consent of the Owner, and such consent shall not relieve the Contractor from full responsibility and liability for the work and for the due performance of all terms and conditions of the Contract.

### **2.4 LICENSES AND TAXES**

The Contractor shall obtain all licenses and permits required by Sevier Solid Waste, Inc. and the State of Tennessee, and promptly pay all taxes required by the federal, state and/or county authorities. The successful proposer(s) must be able to obtain a current Pigeon Forge Business License.

### **2.5 UNIT PRICES QUOTED**

Prices quoted on the attached Proposal Forms shall remain fixed for the Contract period. All additional fees shall be included on the Proposal Form.

### **2.6 PAYMENT**

The successful Proposer shall negotiate acceptable payment terms with Sevier Solid Waste, Inc. according to the option or options awarded under this Proposal.

### **2.7 CONTRACT TERMS**

All items included in this Request for Proposals must be included with the Proposal. The proposer must indicate that this request and the proposer's written material submitted in response will be included as part of the Contract. All Contracts between the parties shall be governed by and enforced in accordance with laws of the State of Tennessee.

### **2.8 NONDISCRIMINATION**

The Contractor shall not discriminate against any person because of race, sex, age, creed, color, religion or national origin.

## **2.9 INDEMNITY**

The Contractor will indemnify and hold harmless Sevier Solid Waste, Inc., its officers, agents, servants, and employees from and against any and all suits, actions, legal proceedings, claims, demands, damages, costs, expenses, and attorneys' fees to the extent resulting from a willful or negligent act or omission of the Contractor, its officers, agents, servants, and employees in the performance of the Contract.

In addition to the liability imposed on the Contractor on account of damage to property or personal injury, including death, arising through operations under this Contract, the Contractor agrees to indemnify Sevier Solid Waste, Inc. against any expense, liability or payment damage for property or personal injury, including death and injuries to the Contractor's employees, caused or in any manner arising from operations hereunder, including the use by the Contractor of equipment or facilities furnished by Sevier Solid Waste, Inc.

# Proposal Affidavit

TO: \_\_\_\_\_  
(Owner's Name)

FROM: \_\_\_\_\_  
(Proposer's Name)

FOR: \_\_\_\_\_  
(Project Name)

Submitted: \_\_\_\_\_, 2023\_\_

The undersigned Proposer, in compliance with your Request for Proposal for the construction of this Project, having examined the Request for Proposal Documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed Project, including the availability of materials and labor, hereby proposes to construct the Project in accordance with the said Documents.

The Proposer proposes and agrees, if this Proposal is accepted, to contract with Sevier Solid Waste, Inc. Composting Facility Expansion in the form of Contract Agreement specified, to furnish all necessary products, machinery, tools, apparatus, means of transportation and labor necessary to complete the construction of the Work in full and complete accordance with the reasonably intended requirements of the Contract Documents to the full and entire satisfaction of the Sevier Solid Waste, Inc. Composting Facility Expansion with a definite understanding that no money will be allowed for extra work except as set forth in the Contract Documents.

PROPOSER: \_\_\_\_\_

By: \_\_\_\_\_  
(name signed)

\_\_\_\_\_  
(name printed or typed)

Title: PROJECT MANAGER  
\_\_\_\_\_

SECTION B

**PROPOSAL FORM**

**Contractor will complete the Work in accordance with the Contract Documents for the following lump sum price:**

**Sevier Solid Waste DIGESTER DRUM  
Sevier Solid Waste Composting Digester 6 Install  
Proposal Cost Form**

14' Diameter

Digester Shell Sections Install \$ \_\_\_\_\_

Carrying Mechanisms Install  
(Carrying Rollers, Thrust Rollers,  
Frames, Riding Rings) \$ \_\_\_\_\_

Gear Drive System Install  
(Bull Gear, Pinion, Gear Box) \$ \_\_\_\_\_

Installation, Startup, and Testing \$ \_\_\_\_\_

Total Proposal: \$ \_\_\_\_\_



