City of Millersville, Tennessee

INVITATION TO BID INSTRUCTIONS

The City of Millersville is accepting bids for a new 750 Gallon trailer mounted sewer cleaner with pivoting reel. For additional information and bid package visit our website at cityofmillersville.com or by calling 615-859-0880. Bids will be accepted at City Hall 1246 Louisville Hwy, Millersville TN 37072 until Friday January 20 2017 at 10 am. Bid opening shall take place at the same time and date. The City of Millersville reserves the right to reject any or all bids and to waive any informality in the bids received.

1. All bids must be sealed and addressed to:

City Recorder City of Millersville 1246 Louisville Hwy Millersville, TN 37072

- 2. The Specification Sheet must be completed in FULL
- 3. Bidders must provide references
- 4. The signed proposal form must be filled out and signed
- 5. Manufacturer's warranty shall be not less than one (1) year basic unit manufacturer's warranty.

Standard 10 year non pro-rated water tank manufacturers warranty.

Standard 5 year water pump manufacturers warranty with lifetime head corrosion coverage.

Standard 2 year/2000 hour diesel engine manufacturers warranty.

- 6. Bidders submitting literature stating warranties which do not fully comply with warranty requirements of this specification must submit a letter from the manufacturer certifying warranty compliance as an integral part of their proposal. Failure to comply may cause the proposal to be deemed "non-responsive" and rejected without further review.
- 7. Vendors shall have a full parts and service facility within a reasonable distance from the City Garage. State location & distance.
- 8. A qualified technician shall provide complete training to City personnel at the City Garage. Training shall include safety, operation, maintenance and service.

DELIVERY

- 1. Equipment shall be delivered F.O.B. City of Millersville in new operating condition.
- 2. Acceptance shall be subject to the inspection and approval of the City.
- 3. Bidder shall state delivery time after receipt of order:

City of Millersville, Tennessee

PROPOSAL FORM

The undersigned hereby declares that they have carefully examined the requirements of the specifications contained herein, and propose to furnish and deliver to the City of Millersville the apparatus listed below.

ONE (1) 750 Gallon Trailer Mou	unted Sewer Cleaner With Pivoting Reel
MAKE:	MODEL:
PURCHASE PRICE: @ \$	Total: \$
(In Words)	
Signed:	
Bidder:	
Address:	
D-1	

CITY OF MILLERSVILLE

GENERAL SPECIFICATIONS

750 GALLON TRAILER MOUNTED SEWER CLEANER WITH PIVOTING REEL

1.0 GENERAL INFORMATION

- 1.1 It is the intent of these specifications to describe the minimum requirements of one new trailer mounted sewer-cleaning machine. The sewer jetter shall be capable of high pressure sewer flushing and removal of debris from storm and sanitary sewer lines. Standard equipment and accessories will be those stated in the manufacturers published except when modified to meet these specifications
- 1.2 Controls for all functions shall be operable at the operator's station on the sewer cleaner.
- 1.3 Complete compliance to each section must be clearly noted by checking either **Yes** or **No**. Any **No** response must be fully explained in detail. Failure to do so will be reason for rejection of the bid. The attachment of a product brochure by itself will not be acceptable and will be grounds for rejection of the bid. It is not our intention to prohibit any potential bidder from bidding by virtue of these specifications, but to describe the equipment actually required. Attach additional sheets if necessary.

2.0 WATER TANKS

2.1 The unit shall be equipped with tandem interconnected naturally baffled water tanks with a total liquid capacity of 750 U.S. gallons. The tanks shall be constructed of 3/8" thick, low-density polyethylene specifically designed for sewer cleaner applications. The tanks shall incorporate UV stabilizers to prevent brittleness due to prolonged exposure to the sun. The tanks shall have full-length sediment chambers. To inhibit algae growth, the tanks shall be black in color.
Yes No Exceptions
2.2 To allow for routine inspection and maintenance, the water tanks shall each have a 12 inch diameter threaded inspection hatchway on top. For added water pump protection, each tank opening shall include a removable strainer as standard equipment. Round agricultural type tanks are not acceptable.
Yes No Exceptions
2.3 The water tanks shall have a standard 10-year manufacturers warranty and be guaranteed for life against corrosion.
Yes No Exceptions
State tank warranty being offered.
2.4 A water fill system, accessible from the rear curb side with a 2-1/2" hydrant hose connection shall be provided. The fill system shall be an approved air gap, anti-siphon design to protect the potable water supply.
Yes No Exceptions
2.5 For ease of viewing a water level sight indicator shall be located at the rear operator's station. In

addition, a low water warning light shall be mounted on the aluminum control panel face.

Yes	No	Exceptions
		shall be mounted and anchored directly to the trailer frame. Water tanks that are made of metallic or fabric materials will not be deemed acceptable.
Yes	No	Exceptions
	A 2" drain valv ine maintenance	e shall be supplied on the curb side of the unit to drain and purge the water tanks for or winterization.
Yes	No	Exceptions
3.0	WATER PUMP	SYSTEM
The suct	design capacity ion side of the w I incorporate a st	I include a heavy-duty, positive displacement, triplex plunger reciprocating water pump. of the pump shall be 40 GPM. It shall be powered to produce 40 GPM at 2000 PSI. The ater pump shall have a flooded inlet to eliminate water pump cavitation. The suction line ainless steel 20 mesh in-line strainer assembly. nanufacturer and model number.
Yes	No	Exceptions
mou stora	nted on the auxi age shall be prov	shall be driven and controlled through a power take-off with an 8" over center clutch liary engine. An air valve for purging the water from the pump system for cold weather ided. Exceptions
	A single three-w ator's station.	ay water flow control valve shall be provided and operated by a manual lever at the
doul	ole wire re-enforc	ure piping system shall be designed utilizing 3/4 inch ID high pressure rubber hose with cement and schedule 80 pipe. Pump suction and low pressure lines shall be standard tire piping system shall include drain plugs to allow adequate draining for winterization.
Yes	No	Exceptions
3.5 pres		essure relief valve with stainless steel internal parts shall be set at a maximum operating and sealed at the factory.
Yes	No	Exceptions
		shall be capable of being operated independently or simultaneously with the hydraulic ation of the hose reel without running the water pump.
Yes	No	Exceptions
		shall be mounted in a fashion as to allow easy access for routine inspections and the need to remove the pump from the unit.
Yes	No	Exceptions

3.8 For added protection, the pump compartment shall be enclosed within a lockable metal shroud. The shrouding system shall include two (2) lockable doors for access to the compartment. Yes No Exceptions
3.9 System shall have a low water automatic shutdown system.
Yes No Exceptions
4.0 POWER SOURCE AND PTO DRIVE SYSTEM
4.1 The water pump shall be powered by an engine mounted power take-off (PTO) via a power band type drive belt. The engine shall be a water-cooled direct injected, 4-cylinder industrial diesel engine with a minimum rating of 65 horsepower @ 2600 RPM. The engine shall be certified to meet Tier 4 interim EPA requirements.
Yes No Exceptions
4.2 A heavy-duty 550 CCA batteries and minimum 60 ampere alternator shall be provided.
Yes No Exceptions
4.3 The engine shall be covered by a standard 2-year or 2000-hour manufacturers' warranty. State engine manufacturer, model and warranty being offered and enclose a copy of engine manufacturers warranty policy.
Yes No Exceptions
4.4 A heavy duty, lever actuated PTO with 8" over center clutch will allow operation of the engine and hydraulic hose reel without engaging the water pump.
Yes No Exceptions
4.5 The engine compartment shall be enclosed within an 11 and 14 gauge steel shroud for protection and to insure overall quietness. Access to the engine, water pump, piping and hydraulic motor will be through side doors with lockable latches. The enclosure shall allow sufficient air flow for proper engine cooling in 90+ degree weather.
Yes No Exceptions
4.6 A storage tray shall be located within the engine compartment for tools and accessories.
Yes No Exceptions
4.7 If not standard equipment, the following shall be included. High temperature and low oil pressure shut down gauges, hour meter, tachometer, ammeter and fuel gauge.
Yes No Exceptions
4.8 The engine fuel tank shall have a minimum capacity of 17 gallons and for safety, be located inside of the engine compartment. A fuel gauge shall be supplied.

Yes_	No	Exceptions	
require	ed to operate	of environmental surrounding at full capacity the max DB. a manufacturers DBA chart v	g combined with the location and hours that this unit will be A shall not exceed 90 DBA within a 15 foot perimeter. Each with the bid.
Yes _	No	Exceptions	
4.10 T mount shroud	ed inside the	visibility in the interest of o enclosure. The maximum of	operator safety the engine muffler and air cleaner shall be over all height of the unit shall not exceed 68" to the top of
Yes_	No	Exceptions	
5.0 C	ONTROLS, O	GAUGES AND INSTRUMEN	ITS
5.1 The	ne unit shall b oned in a way	e operable from one position as to allow cleaning to be do	on located at the rear operator station. The controls must be one by one person. Reel speed control and hose reel
•	it / retrieve aneously.	ever must be positioned	to allow operator to control both functions separately or
Yes_	No	Exceptions	
		ncorporating the following grand operation.	auges and controls will be mounted at the hose reel assembly
	Electror Water p On/off w Water le Hose re Temper	eter with Hour Meter ic engine throttle ressure gauge vater control valve evel sight tube el speed control ature gauge w/ shutdown tter warning light	PTO engage/disengage lever Keyed ignition system Murphy bypass switch Wash-down gun connection Dual 12 volt accessory plugs Volt meter Oil pressure gauge w/ shutdown
Yes_	No	Exceptions	
5.3 Fc Yes _	or corrosion pr	otection, the control panel m Exceptions	ust be constructed out of aluminum or stainless steel.
		n control lever shall be locate tanding at the control panel.	ed on the operating end of the machine within easy reach of
Yes_	No	Exceptions	
6.0 F	PIVOTING HO	SE REEL ASSEMBLY	
shall I	ock into place	at various positions within i	of the unit and manually pivot a minimum of 190 degrees. It its arc via a spring loaded quick locking mechanism. The reel point to the ground, insuring adequate ground clearance.
Yes_	No	Exceptions	

6.2 The pivoting hose reel shall have a mounting base of at least 10" in diameter and be constructed of at least 3/8" steel plate. A 5/8" spring latch will allow the reel to pivot 95 degrees in each direction. The reel must pivot on an industrial type, heavy duty steel bearing that is sealed to eliminate contamination from dirt.
Yes No Exceptions
6.3 The reel shall have a minimum useable capacity of 750 feet of 3/4-inch ID thermo-plastic sewer hose.
Yes No Exceptions
6.4 The unit shall be delivered with a minimum of 500 feet of 3/4 inch ID thermo-plastic sewer hose with 2500 PSI working and 6250 PSI burst pressure rating.
Yes No Exceptions
6.5 The hose reel shall be hydraulically powered in both directions and payout and retrieve via a hydraulic motor with chain reduction drive. It must have sufficient power to retrieve 750' of sewer hose under full pressure. Hose reels with direct-coupled hydraulic drives are unacceptable. Yes No Exceptions
6.6 Water delivery to the pivoting hose reel shall be through a heavy-duty cast iron 90 degree swivel rotary coupling. This swivel shall be fully adjustable and repairable.
Yes No Exceptions
6.7 A hose reel pendant control with 20' of cable with quick-disconnect shall be furnished that will allow the operator to payout and retrieve the sewer hose from remote locations.
Yes No Exceptions
6.8 A heavy duty hand operated roller hose guide/level wind shall be provided to facilitate uniform alignment of the hose onto the reel.
Yes No Exceptions
7.0 WASH DOWN SYSTEM7.1 Quick connection must be provided at working end of trailer for wash down hose connection.
Yes No Exceptions
8.0 HYDRAULIC SYSTEM
8.1 The hydraulic pump shall be driven directly from the engine. A built-in overload relief valve and hydraulic hoses rated for 2000 PSI maximum pressure shall be incorporated into the system.
Yes No Exceptions
8.2 The hydraulic oil reservoir tank shall have a minimum capacity of 17 U.S. gallons and be located in the power deck compartment. A fluid level sight gauge shall be provided on the hydraulic tank for quick fluid level inspection.

Yes_	No	Exceptions
8.3 A	10-micron rep	placeable spin-on cartridge filter shall be provided.
Yes_	No	Exceptions
9.0	STORAGE	
9.1 A	tool and acce	ssory storage tray shall be located in the lockable engine compartment.
Yes_	No	Exceptions
10.0	TRAILER COI	NSTRUCTION
10.1 The t	The trailer sha railer shall als	all have tandem leaf spring axles with a 6,000 lb. rating per axle for a GVWR of 12,000 lbs. o be equipped with electric brakes.
Yes_	No	Exceptions
10.2 mobi	The wheels ar le home axles	re to be at least 6 lug bolt style with load range "E", 16 ply trailer tires and wheels. RV and , wheels and tires are not acceptable.
Yes	No	Exceptions
interr	nediate cross	ength, the trailer frame shall be constructed of 6" heavy - duty channel iron with heavy-duty members with Uni-frame "A" type hitch frame for stability. Trailers constructed of any deemed unacceptable.
Yes.	No	Exceptions
10.4 treat	Heavy-duty, 3 ment. The fen	300 lb minimum capacity trailer fenders shall be supplied and include non-skid surface ders shall extend a maximum of 12" beyond the sides of the unit.
Yes	No	Exceptions
10.5 steel	The trailer sh	all include an adjustable lunette style hitch, electric brakes, break away switch, adjustable gue jack and two safety chains with hooks.
Yes	No	Exceptions
10.6 ICC	The unit will i lighting and re	nclude two stop and turn taillights with license plate light at the rear, as well as all required effectors.
Yes	No	Exceptions
and mote its le	unobstructed orists a better ower center o	perator safety, the entire unit must be of a low profile design as to allow the operator a full view of oncoming traffic and his surroundings. This design will also allow oncoming view of personnel and will greatly reduce the likelihood of tipping on uneven terrain due to f gravity. The units' approximate dimensions shall be 84" wide, 245" long and the water seed 68" in height when fully loaded.
Yes	No	Exceptions

10.8 <u>The</u> water.	trailers' de	sign must allow towing of the jetter at highway speeds while fully loaded with
Yes	_ No	Exceptions
11.0 PAII	NT	
4-step pa (1) Sand (2) Phos (3) One	nint process. I blasting phoric metal coat of high t	el surfaces shall be professionally prepared for painting and protected with the following washing puild epoxy primer or then top coat with acrylic urethane. Finish of 5 – 7 mil minimum.
Yes	_No	Exceptions
12.0 ITE	MS TO BE IN	NCLUDED WITHIN BID
35 c 1 to 1 O ₁ 1 A ₂ 1 P 20' : Mur 2 - : 25' 1 Noz Fixe Hyd	uxiliary engin- ump manual x ¾" HD rubb phy high tem 3" x 36" tiger fill hose zle extension ad mounted s rant wrench	nozzle and service manual (unit only) e manual per wire braided leader hose p/low oil pressure shutdown system tail
	RRANTY	
;	One-year ba Standard 10 Standard 5 ye	sust indicate warranty being offered, which shall be no less than sic unit manufacturer's warranty. year non pro-rated water tank manufacturers warranty. ear water pump manufacturers warranty with lifetime head corrosion coverage. rear/2000 hour diesel engine manufacturers' warranty.
Yes	_ No	Exceptions
13.2	Any :	special extended warranty coverage on specific items must be clearly indicated.

13.3 Unit shall be delivered in new condition and successful bidder shall provide onsite training on both operation and maintenance of the equipment.

Yes No E	xceptions		
14.0 LIST OF EXCEPTIONS			
15.0 FOLLOWING N	OZZLES TO BE PRICED SE	PARTLY	
KEG ¾" Rambo N KEG ¾" Cleaning KEG ¾" Traction N KEG ¾" Torpedo N KEG ¾" Rotor Noz KEG ¾" Nozzle Ca	Nozzie Nozzie Nozzie zie		