



# CITY OF BISHOP

377 West Line Street - Bishop, California 93514

Post Office Box 1236 - Bishop, California 93515

760-873-8458 publicworks@ca-bishop.us

[www.ca-bishop.us/CityofBishopPublicWorks.htm](http://www.ca-bishop.us/CityofBishopPublicWorks.htm)

## Request For Bids

### Sewer Cleaner Truck

**Release:** Tuesday 14 November 2006

**Closes:** Friday 1 December 2006

**Contact:** David Grah, Director of Public Works

**General:** The City of Bishop requests bids for the purchase of a sewer cleaner truck. Bids shall be delivered to Bishop Public Works at City Hall at 377 West Line Street, Bishop, California 93514. Bids shall be accepted at City Hall until 1500 the date the Request for Bids closes. The City intends to purchase the truck from the bidder with the lowest responsive bid considering bid evaluation factors and the expected useful life of the truck.

The truck shall be used to clean and remove sand, stone, bottles, trash, grease, sludge, roots, and other debris from sanitary sewer and storm drain pipes, manholes, inlets and vaults. The truck shall be new and shall be as described on the bid form.

#### **Bid Requirements:**

1. The bid shall be delivered in a sealed envelope marked "Sewer Cleaner Truck Bid".
2. The bid shall reference and include all documentation necessary to demonstrate minimum requirements are met.
3. The bid shall include the total cost of the sewer cleaner truck, delivered to Bishop, including all applicable taxes, fees, and recommended service plans and shall include an itemized cost breakdown indicating the cost of the various equipment and any service elements.
4. The bid shall include a description of a recommended 10 year service and maintenance program, a description of how that program would be provided for a sewer cleaner truck based in Bishop, and an estimated yearly cost of this

program. For this purpose, an average usage of 8 hours per week should be assumed.

5. The bid shall include a delivery schedule from purchase order through completion of any warrantee periods.
6. The bid shall provide detailed information on equipment warrantees.
7. The bid shall include three references from comparable public agencies that operate comparable equipment.

**Bid Evaluation:**

Bids shall be evaluated on the basis of:

1. Conformance to bid requirements, other features.
2. Price.
3. Service and repair.
4. Delivery.
5. Warranty.
6. References.



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## Sewer Cleaner Truck

### Bid Form

**Vendor:** \_\_\_\_\_

**Date Prepared:** \_\_\_\_\_

**Submitted By:** \_\_\_\_\_

**Signed:** \_\_\_\_\_

The information provided on this Bid Form will be used to evaluate the Sewer Cleaner Truck bid. The Sewer Cleaner Truck shall be considered to consist of three main parts, the truck chassis, the spray cleaning system, and the vacuum system.

In the space provided for each requirement listed below, briefly indicate how that requirement is met. Reference documentation should be included. Provide detailed and specific cross reference to the documentation for each requirement. If a requirement is not met, an explanation of why the requirement is not met can be provided.

#### **General Requirements:**

1. The entire electrical system shall be vapor sealed to eliminate moisture damage to NEMA 4 (National Electrical Manufacturers Association) standards.

2. Aluminum water tanks shall be fitted with renewable sacrificial corrosion protection.

3. All systems shall be equipped convenient drains and other features to protect against freeze damage.

4. The sewer cleaner truck shall come with one set of complete parts, operating and maintenance manuals.

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5. After execution of the purchase contract the vendor will meet with City staff to finalize all mounting locations and installation details.

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6. Vendor shall provide a factory trained representative to the City to train the employees at City facilities on the use and care of equipment for 16 hours of training after receipt and acceptance of equipment.

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7. The apparent responsive low bidder shall make a sewer cleaner truck substantially like the one described here available for inspection by City of Bishop within 300 miles of Bishop within 3 weeks after bid opening and before purchase order is issued.

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**Truck Chassis:**

8. The truck chassis shall be standard commercial quality of common and reputable manufacture.

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9. The fully equipped sewer cleaner truck, with tanks full such as at the start or end of a cleaning job, and at all other reasonable loading conditions, shall be legal on public streets when operated commercially by a driver with a Class C California Drivers License.

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10. The truck engine shall be conveniently accessible for all routine maintenance with all permanently-mounted spray and vacuum equipment in place.

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11. The truck shall be capable of maintaining simultaneous full pressure water flow and full vacuum air flow while maintaining 20% reserve engine power and cooling capacity.

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12. The truck shall be equipped with an antilock brake system.

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13. The truck shall be equipped with a fuel/water separator.

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14. The truck shall be equipped with front and back tow hooks.

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15. The truck shall be equipped with a 110 amp alternator.

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16. The truck shall be equipped with power steering.

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17. The truck shall be equipped with air suspension seats for driver and passenger.

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18. The truck shall be equipped with air conditioning.

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19. The truck shall be equipped with an automatic back up alarm.

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20. The truck shall be equipped with two toolboxes, one 72 inches long by 18 inches wide by 18 inches high and one 36 inches long by 18 inches wide 18 inches high.

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21. The truck shall have one low profile light bar visible from all directions.

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22. The truck shall have controllable high visibility flashing marker lights near each corner.

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23. The truck shall have a rear-mounted 6-foot-long arrow board or controllable sequence lights suitable to direct traffic around vehicle.

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24. A fire extinguisher complying with Underwriter Labs 10 ABC rating shall be installed in the truck cab.

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25. A removable portable hand spot light shall be provided for use with power receptacles installed at front and rear bumper.

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**Spray Cleaning System:**

**Pump:**

26. The hydraulic pump and water pump shall allow the water system to operate with 40 gallons per minute at 2500 pounds per square inch continuous duty operation.

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27. Pumps shall be completely protected from ingesting sand or other contaminants.

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28. Spray cleaning system shall be capable of delivering pulsating flow to jet nozzles.

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29. The water pressure and flow shall be independently adjustable.

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30. The fresh water tanks shall provide 500 gallon capacity and be constructed of durable, easily repaired material.

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31. The system shall be capable of using freshwater stored in the debris tank when freshwater-intensive operations are underway and when the vacuum system will not be used.

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32. The fresh water tank shall be equipped with an anti-siphon device, 25 feet of hydrant fill hose and fittings, a convenient storage rack for the hose, a water level sight gauge, and a low water alarm.

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33. The hose reel shall be mounted on a bearing to allow 120 degrees rotation about a vertical axis to provide a range of working positions.

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34. Hose reel shall have a minimum capacity of 500 feet of 0.75 inch inside diameter rodder hose with a continuous 500 feet length of 0.75 inch inside diameter hose installed. The jet nozzle end of the hose shall include 20 feet of hose of color that contrasts with the color of the remaining hose. An extra 500 feet of 0.75 inch inside diameter rodder hose with fittings shall also be provided.

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35. Hose shall have an operating pressure of 3,000 pounds per square inch and a burst pressure of 7,250 pounds per square inch.

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36. At least 3 jet nozzle types shall be supplied with the unit.

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37. All spray cleaning operating controls shall be located near the hose reel including:

- Truck engine throttle.
  - High pressure water pump on-off.
  - Hose reel forward-reverse valve.
  - Adjustable hose reel speed control.
  - Water pressure gauge.
  - Handgun control valves.
  - Work light.
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38. A handgun shall be supplied that comes equipped with 50 feet of 0.50 inch inside diameter wire reinforced hose on a retractable hose reel.

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39. The high pressure water pump shall be utilized to supply 20 gallons per minute at 600 pounds per square inch to the handgun system.

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40. The operator shall be protected from high pressure failures with a pressure relief system.

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**Vacuum System:**

**Blower:**

41. The blower shall be capable of 2100 cubic feet per minute inlet volume at 15 inches of mercury vacuum and shall be protected by a vacuum relief valve set at 15 inches of mercury vacuum.

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42. The blower shall be provided with an exhaust silencer.

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**Vacuum Boom and Hose:**

- 43. The vacuum hose shall be 6 inch diameter.

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- 44. Hose boom shall be hydraulically controlled out, in, up, down, left and right directions.

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- 45. The boom shall rotate 120 degrees around a vertical axis.

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- 46. The boom shall lift range shall be 15 feet vertical.

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- 47. The boom shall have a 700 pound lift capacity.

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- 48. Boom shall be controllable from a fixed operator station and from a wired remote control station. Both stations shall be equipped with controls for all directions as well as a safety emergency shut down button to halt all boom movement.

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- 49. Boom and fixed operator station shall be equipped with work lights.

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- 50. When vertical, the vacuum hose shall be able to reach a minimum of 20 feet from vehicle center line.

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- 51. Pipe extensions shall be provided to allow cleaning at to depths of 20 feet below the ground surface. Extensions shall include one 3 foot extension, two 5 foot extensions, one catch basin nozzle with a steel reinforced tip, one 4 inch diameter nozzle, and necessary clamps and gaskets.

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- 52. Convenient racks adequate to carry all required hose and pipe shall be provided.

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**Debris Tank**

- 53. The debris tanks shall have a 3.5 cubic yard capacity.

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54. The debris tank shall have a full size rear door hinged at the top and equipped with a replaceable seal to prevent leaks. The door shall be hydraulically latched with over-center latches that require no operator functions at the latch mechanisms. The door shall open when the debris tank is raised.

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55. The debris tank shall be dumped by raising the tank hydraulically to a height sufficient to empty debris.

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56. Features shall be included to keep vehicle and equipment and operator clear of material and liquids being dumped.

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57. The debris tank door shall be equipped with a 4 inch minimum diameter knife-type drain valve. A 10 foot flat hose shall be provided. A convenient storage rack shall be provided for the hose.

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58. The vacuum system shall be equipped with a 4 inch drain system designed to provide adequate debris / water separation.

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59. The debris tank shall have a flush system.

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60. The debris tank shall be equipped with a load level indicator to show when the body is loaded to capacity.

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61. The vacuum pump shall be protected from over filling of debris tank.

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62. Dump controls shall be conveniently located.

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**Other Features:**

List and describe or reference other important standard or optional features of the product bid that are not reflected in the responses above.

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**Cost**

The total purchase cost of the sewer cleaner truck, delivered to Bishop, including all applicable taxes, fees, and recommended service plans is:

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Attach an itemized cost breakdown indicating the cost of the various equipment and any service elements.

**Service**

For this purpose, assume an average usage of 8 hours per week.

Describe recommended 10 year service and maintenance program:

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Describe how that program would be provided for a sewer cleaner truck based in Bishop.

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Estimated yearly cost of this program.

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**Delivery:**

Attach and reference or describe a delivery schedule from purchase order through completion of any warrantee periods. Include important schedule milestones:

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**Warranty:**

Attach and reference or describe equipment warranties:

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**References:**

Three references from comparable public agencies that operate comparable equipment:

Name	Title	Organization	Phone	Product / Comments
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