



CITY OF BISHOP

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Request For Bids

Sewer Cleaning Truck

Release: Thursday 22 September 2006

Closes: Friday 6 October 2006

Contact: David Grah, Director of Public Works

General: The City of Bishop requests bids for the purchase of a sewer cleaning truck. Bids shall be delivered to Bishop Public Works at City Hall at 377 West Line Street, Bishop, California 93514. Bids shall be accepted until 1500 6 October 2006 at City Hall. The City intends to purchase these items from the bidder with the lowest responsive bid.

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 considered to consist of three main parts, the truck chassis, the spray cleaning system, and the vacuum system as described below. The requirements below are minimum requirements.

General Requirements:

1. The sewer cleaning truck shall be delivered within 6 months of order being placed.
2. All wiring shall be color coded and run in sealed terminal boxes.
3. The entire electrical system shall be vapor sealed to eliminate moisture damage to NEMA 4 (National Electrical Manufacturers Association) standards.
4. All electrical connections shall require no exposed wires or terminals.
5. Aluminum water tanks shall be fitted with renewable sacrificial corrosion protection.

6. All systems shall be equipped convenient drains and other features to protect against freeze damage.
7. The sewer cleaning truck shall come with one set of complete parts, operating and maintenance manuals.
8. After award of the contract the vendor will meet with City staff will be arranged after award to finalize all mounting locations and installation details.
9. 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.
10. The apparent responsive low bidder shall make a sewer cleaning 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.
11. Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin shall comply with the "Contractor's Agreements" provisions of Presidential Executive Order 11246.

Truck Chassis:

12. The truck chassis shall be standard commercial quality of common and reputable manufacture.
13. The fully equipped sewer cleaning 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.
14. The truck shall have a conventional cab.
15. The truck hood shall be fully tilting with all permanently-mounted spray and vacuum equipment in place.
16. The truck engine shall be turbocharged diesel.
17. The truck engine shall be the sole power source for the truck, the spray cleaning system, and for the vacuum system.
18. 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.
19. The truck shall be equipped with an antilock brake system.

20. The truck shall be equipped with a fuel/water separator.
21. The truck shall be equipped with front and back tow hooks.
22. The truck shall be equipped with a 110 amp alternator.
23. The truck shall be equipped with power steering.
24. The truck shall be equipped with air suspension seats for driver and passenger.
25. The truck shall be equipped with air conditioning.
26. The truck shall be equipped with water temperature indicator, oil pressure gage, voltmeter, tachometer, hour meter, and transmission temperature indicator.
27. The truck shall be equipped with an automatic back up alarm.
28. 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.
29. The truck shall have one low profile light bar visible from all directions.
30. The truck shall have controllable high visibility flashing marker lights near each corner.
31. The truck shall have a rear-mounted 6-foot-long arrow board or controllable sequence lights suitable to direct traffic around vehicle.
32. The hydraulic reservoir shall have a 35 gallon capacity.
33. A fire extinguisher complying with Underwriter Labs 10 ABC rating shall be installed in the truck cab.

Spray Cleaning System:

Pump:

34. The spray pump shall be a double acting single piston pump powered hydraulically.
35. 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.
36. The water pressure and flow shall be independently adjustable.
37. The water pumps shall have a 5 year warranty on parts and labor.
38. The fresh water tanks shall provide 500 gallon capacity and constructed of durable, easily repaired material.

39. The fresh water tank shall be equipped with an anti-siphon device, a Laval Separator, 25 feet of hydrant fill hose and fittings, a convenient storage rack for the hose, and a water level sight gauge.
40. A hose reel assembly shall be mounted on an independent frame attached to the front frame of the truck.
41. 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.
42. 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. An extra 500 feet of 0.75 inch inside diameter rodder hose with fittings shall also be provided.
43. Hose shall have an operating pressure of 3,000 pounds per square inch and a burst pressure of 7,250 pounds per square inch.
44. Five jet nozzles shall be supplied with the unit: 2 15-degree sand nozzles, 2 30-degree sanitary nozzles, and 1 20-degree probe nozzle with 5 rear and 1 forward orifice.
45. Hose reel will be driven direct via a hydraulic motor that controls the reel speed and forward or reverse rotation.
46. 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.
47. 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.
48. The high pressure water pump shall be utilized to supply 20 gallons per minute at 600 pounds per square inch to the handgun system.
49. The operator shall be protected from high pressure failures with a pressure relief system.

Vacuum System:

Blower:

50. Vacuum shall be provided by a positive displacement, rotary lobe blower. 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.
51. The blower shall be provided with an exhaust silencer.
52. The blower shall incorporate a fine mesh micro screen strainer filtration system.

Vacuum Boom and Hose:

53. The vacuum hose shall be 6 inch diameter.
54. The vacuum hose and boom assembly and lift shall not raise with the dump body.
55. Hose boom shall be hydraulically controlled out, in, up, down, left and right directions.
56. The boom shall rotate 120 degrees around a vertical axis.
57. The boom shall lift range shall be 15 feet vertical.
58. The boom shall have a 700 pound lift capacity.
59. Boom shall be controlled by a remote control station equipped with a single control stick for all directions as well as a safety emergency shut down button to halt all boom movement in case of emergency.
60. Boom shall be equipped with work lights.
61. When vertical, the vacuum hose shall be able to reach a minimum of 20 feet from vehicle center line.
62. Pipe extensions shall be provided to allow cleaning at to depths of 28 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.

Debris Tank

63. The debris tanks shall have a 3.5 cubic yard capacity.
64. 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.

65. The debris tank shall be dumped by raising the tank hydraulically to a height sufficient to empty debris.
66. The debris tank door shall be equipped with a 4 inch minimum diameter butterfly drain valve. A 10 foot flat hose shall be provided. A convenient storage rack shall be provided for the hose.
67. The vacuum system shall be equipped with a 4 inch drain system designed to provide adequate debris / water separation.
68. The debris tank shall have a flush system controlled from rear of truck.
69. The vacuum pump shall be direct driven.
70. The debris tank shall be equipped with a load level indicator to show when the body is loaded to capacity.
71. The vacuum pump shall be protected from over filling of debris tank.
72. Dump controls shall be conveniently located.

Bid Requirements:

1. The bid shall be delivered in a sealed envelope marked “Sewer Cleaning 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 cleaning 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 elements.
4. The bid shall include a detailed delivery schedule from bid opening through completion of any warranty periods.
5. The bid shall provide detailed information on equipment warranty and service program.
6. The bid shall include three references from comparable public agencies that operate comparable equipment. The purpose of the references will be to gather information on the performance of the proposed equipment and on the service of the potential vendor.

Bids shall be evaluated on the basis of:

1. Conformance to specifications.
2. Price.
3. Delivery.
4. Warranty.
5. References.