

City of Portsmouth  
Portsmouth New Hampshire

**INVITATION TO BID**

**Sealed** bid proposals, **plainly marked** Bid #35-08 Wastewater Treatment Plant Truck S-14, 12,000 GVWR, 4 Wheel Drive Cab and Chassis, Dump Body with Front Plow” **on the outside of the envelope**, addressed to the Finance/Purchasing Department, City Hall, 1 Junkins Avenue, Portsmouth, New Hampshire, 03801, will be accepted until 2:00 p.m., January 7, 2008 at which time all bids will be publicly opened and read aloud.

Bid Specifications may be obtained from the Finance/Purchasing Department on the third floor at the above address, on-line at **www.cityofportsmouth.com**, or by calling the Purchasing Coordinator at 603-610-7227.

The City of Portsmouth reserves the right to reject any or all bids, to waive technical or legal deficiencies, and to accept any bid that it may deem to be in the best interest of the City.

Questions may be directed to the Purchasing Coordinator at 603-610-7227.

## **INSTRUCTION TO BIDDERS**

### **I. Preparation of Bid Proposal**

- A. The Bidder shall submit its proposal upon the form furnished by the City (attached). Prices shall be given in both in words and figures.
- B. Corrections made to amounts or information requested on the bid form should be made by crossing out the error and entering the new price or information above or below it. The correction must be initialed. In case of discrepancy between the prices written in words and those written in figures, the prices written in words shall govern.
- C. The bidder's proposal must be signed by the individual, by one or more members of the partnership, by one or more members or officers of each firm representing a joint venture; by one or more officers of a corporation, or by an agent of the contractor legally qualified and acceptable to the owner, If the proposal is made by an individual, his name and post office address must be shown, by a partnership the name and post office address if each partnership member must be shown; as a joint venture, the name and post office address of each must be shown; by a corporation, the name of the corporation and its business address must be shown, together with the name of the state in which it is incorporated, and the names, titles, and business addresses of the President, Secretary, and Treasurer.
- D. All words, figures, corrections shall be in ink or typed. All signatures shall be in ink.

### **II. Delivery of Bid Proposals**

When sent by mail, the sealed proposal shall be addressed to the owner at the address and in the care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and at the place specified in the invitation for bids. Proposals received after the time for opening of the bids will be returned to the bidder, unopened. Faxed bid proposals are not acceptable.

### **III. Withdrawal of Bid Proposals**

A bidder will be permitted to withdraw his proposal unopened after it has been deposited if such request is received in writing prior to the time specified for opening the proposals.

### **IV. Public Opening of Bid Proposals**

Proposals will be opened and read publicly at the time and place indicated in the invitation for bids. Bidders, their authorized agents, and other interested parties are invited to be present.

V. Irregular Proposals and Disqualification of Bidders

Bid proposals that are irregular may be rejected. Irregular bid proposals include the following:

- A. Failure to use the bid form provided or alteration of the form.
- B. Unauthorized additions, conditional or alternated bids, incomplete bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite or ambiguous as to its meaning.
- C. The addition of any provision reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.

Bidders may be disqualified and the bid proposal rejected for the following reasons:

- D. More than one proposal for the same work from an individual, firm, or corporation under the same or different name;
- E. Evidence of collusion among bidders;
- F. Failure to submit all required information requested in bid specifications;
- G. Bidder is not qualified or able to provide the provide the services or product(s) described in the bid specifications; or
- H. Disqualification is in the best interest of the City of Portsmouth.

AWARD

I. Consideration or Proposals and Award

After the proposals are opened and read, bid results will be available to the public. In case of discrepancy between the prices written in words and those written figures, the prices written in words shall govern.

Within 30 calendar days after the opening of proposals, if an award is made, it will be made to the lowest, responsible, qualified bidder whose proposal complies with all the requirements prescribed. The successful bidder will be notified by mail at the address indicated on the proposal.

The award shall not be considered official until such time that a Purchase Order, fully executed contract or an award letter has been issued by the Finance Director. No presumption of award shall be made by the bidder until such documents are in hand. Verbal notification of award is not considered official. Any action by the bidder to assume otherwise is done so at his/her own risk and the City will not be held liable for any expense incurred by a bidder that has not received an official award.

II. Reservation of Rights

The City reserves the right to cancel the award at any time before final notification of the successful bidder without any liability against the City. The City of Portsmouth reserves the right to reject any or all bids, to waive technical or legal deficiencies, and to accept any bid that it may deem to be in the best interest of the City. The City of Portsmouth also reserves the right to reject the bid of a bidder who has failed to perform properly or complete on time contracts of a similar nature.

**BID SPECIFICATIONS**

For

**Waste Water Treatment Plant**  
**Vehicle #14**

**City of Portsmouth, New Hampshire**

**Public Works Department**

Specifications for  
12,000 GVWR  
4 Wheel Drive Cab and Chassis, Dump Body

With Front Plow

## MINIMUM SPECIFICATIONS

12,000 lb. GVWR 4 Wheel Drive Cab and Chassis, Dump Body  
With Front Plow

### City of Portsmouth, New Hampshire

Public Works Department

#### SCOPE

It is the intent of this specification to describe a 12,000 lb. GVWR 4 Wheel Drive cab and chassis, with the following minimum specifications considered necessary to perform the function indicated. The unit shall be new, unused, of current production, design and source from an established, recognizable, manufacturer. Standard items in the manufacturers published literature, furnished by the bidder, shall be included in the bid. A copy of the specifications for the unit being proposed shall be included with the bid. Any exceptions variations, and/or deletions must be noted or the bid may be rejected. The vehicle described herein will be utilized as a dump truck and snowplow. All components furnished under this specification shall be capable of the stress of municipal snow plowing, and general highway maintenance.

#### 12,000 lb. GVWR 4 Wheel Drive CAB and CHASSIS

#### CHASSIS:

The frame type shall be "Semi-Perimeter Ladder Type" with a section modulus of 6.76 cubic inches and a RBM of 243,360 lb. in. Front tow hooks, two (2) each frame mounted. 135.5 inch wheel base and 61 inch cab to axle. To include the heavy duty chassis equipment package.

#### FRONT AXLE:

Independent front axle with a 4500 lb. capacity. Heavy duty front springs to be an independent torsion bar with a capacity of 4500 lbs.; shock absorber diameter to be 35 mm; stabilizer bar diameter to be 1.18 inches. Hydraulic front disc brakes with a rotor diameter thickness of 12.50 x 1.50 inches; front swept area of 239.0 square inches.

#### REAR AXLE:

Full floating rear axle with a 12,000 lb. suspension protection system using progressive rate springs with sufficient capacity to provide roll stability and increasing the load carrying ability. The suspension system to be mounted to the frame above the rear axle and will not increase the overall height of vehicle. Hydraulic rear drum brakes with a

drum diameter width of 13.00 x 3.50 inches; rear swept area of 286.0 square inches. Parking brake type to be cable to rear wheels.

**BRAKES:**

1. Brake system to be Hydraulic Power with ABS system on all 4 wheels.
2. Parking brake shall a cable to the rear wheels type.
3. Audible indicator on brake wear.

**STEERING:**

1. Type to be speed sensitive, power (EVO) with an on center ratio of 16.40:1 and a lock ratio of 16.30:1.
2. Turning diameter curb to curb to be 53.00 feet with a wall to wall of 56.70 feet.
3. Energy absorbing steering column

**ELECTRICAL SYSTEM:**

Electrical system to be 12 volt, standard equipment includes the following:

1. Turn signal flasher,
2. Turn signal switch, self canceling with integral switch,
3. Headlight dimmer switch integral turn signal switch,
4. Parking light integral with front turn signal and light,
5. Stop, turn, tail and backup lights dual, rear, reflector,
6. Starter switch electric key operated, with buzzer warning tone,
7. Turn signals, front flush mounted with reflectors and turn signals,
8. Windshield wipers with switch for intermittent operation,
9. Cigar lighter,
10. Electric horn, 1 each,
11. Alternator to be maximum capacity of 100 amps at 1200 watts.
12. Battery system to be, maintenance free, 12-volt, to be SEO single 770 Cold Cranking Amps @ 0 deg F.
13. Radio to be AM/FM standard,
14. Radio filter noise suppression shall be required with all electronic engines,
15. Electronic controlled indicators shall include low oil pressure and high temperature with light in audible alarm,
16. Roof marker lamps,
17. Headlights to be long life halogen,
18. Light set up for daytime running,
19. Dome light with LH & RH door switch,
20. Dual covered power points,

**ENGINE:**

**VORTEC 6100 V8**

1. Meets Federal Emission Requirements
2. High capacity air cleaner
3. Hour Meter

**ENGINE EQUIPMENT:**

1. Anti-freeze to be permanent, to minus 40 degrees Fahrenheit;
2. Radiator to be 1.34 inches thick, 586.21 square inch frontal area with a total system capacity of 17.110 quarts, 11 fan blades, 19.50 inch fan blade diameter with a 1.63 deg fan blade pitch.
3. A water to oil engine oil cooler.
4. A main fuel tank with a capacity of 22 gallons with a separate fuel filter.

**TRANSMISSION**

**ALLISON 6100 SERIES**

1. Drivetrain to be 4 wheeldrive
2. Transfer case to be Borg Warner model number 4470, with a gear ratio of high @ 1.000, low @ 2.690, power take off SAE 6 bolt with right hand access.
3. Brake / Transmission shift interlock
4. Water & Air to Oil transmission cooler

**CAB / CHASSIS:**

1. Front bumper to be chrome
2. Flare wheel openings
3. Grille to be molded and painted argent
4. Paint color to be CHROME YELLOW CAB, BLACK BODY, or manufacturers nearest color to be approved by owner;
5. Cab to be conventional, steel, and to include the following:
6. Passenger assist handles,
7. Floor covering to be black rubber;
8. Interior sheet metal to be painted, color based on the exterior color;
9. Headliner color keyed vinyl;
10. Steering wheel to be simulated leather;
11. Sunshades both sides, vinyl
12. Front head restraints;
13. Windows all glass;
14. Interior color to be charcoal;
15. Mirrors to be stainless steel senior west coast type;
16. Convex mirrors, 2 each, to be stainless-steel, 8 in. diameter, mounted below primary mirrors;
17. Gauge cluster to be English with English electronic speedometer with trip odometer, engine oil pressure gauge, electronic water temperature gauge, voltmeter, hourmeter;
18. Bench type seat , full width, vinyl with fixed back to include 3-point seat belt, lap and shoulder belt type for driver and passenger and one lap belt for center passenger;
19. Heater to be blend air type, with defroster, heater hoses to be premium rubber; front side window defoggers
20. Cab interior trim to be deluxe, to include the following,
21. Storage pocket, door molded plastic, charcoal and color, mounted on door;
22. Instrument to handle trim to be molded plastic, charcoal in color;



23. Theft deterrent security passlock;
24. Dual hood latch;
25. Side door beams;
26. Front wheel size 16.0 x 6.0 inch, offset 5.000 inches, 8 bolt holes, painted steel;
27. Rear dual wheels size 16.0 x 6.0 inch, offset 5.000 inches, 8 bolt holes, painted steel;
28. Spare wheel (1 each) size 16.0 x 6.0 inch, offset 5.000 inches, 8 bolt holes, painted steel;
29. Skid plate package
30. Front tires, 2 each, LT225/75R-16/D On-Off Road blackwall, capacity of each of 2335 lbs., 706 rev/mile;
31. Rear tires, 4 each, LT225/75R-16/D On-Off Road blackwall, capacity of each of 2150 lbs., 706 rev/mile;
32. Spare tire, 1 each, LT225/75R-16/D On-Off Road blackwall, capacity of each of 2335 lbs., 706 rev/mile;
33. Fire extinguisher and triangle flare kit;
34. Full mud flaps shall be installed at all four (4) tires.

### **DUMP BODY, PLOW GEAR, and WARNING SYSTEMS**

It is the intent of this specification to describe a two (2) to three- (3) yard dump body, a complete plow with the following minimum specifications. The units shall be new, unused, of current production, design and source an established, recognizable, manufacturer. Standard items in the manufacturers published literature, furnished by the bidder, shall be included in the bid. Any exceptions variations, and/or deletions must be noted or the bid may be rejected. This vehicle shall be in accordance with all federal and state standards, in effect at the time manufacturer.

#### **DUMP BODY:**

1. The body shall be heavy duty dump body, Warren model U-250 eight (8) feet with a two (2) to three (3) cubic yard capacity with twenty-four (24) inch ten gauge cab shield and screen window.
2. Ten (10) gauge construction throughout with full seam welding, three (3) inch structural channel cross members on sixteen (16) inch centers, six (6) inch structural channel long members, one piece floor with full height steel sideboards.
3. Rear corner posts with integral oval cut outs for an in body light system.
4. The body ends are to be higher than the sides, with pockets front and rear to allow for the installation of sideboards.
5. The operating device shall be mechanical and positive locking, with a handle at the left front corner.
6. Front and rear mud flaps on rear wheels.
7. The dump body shall include a single cylinder direct lift subframe type with seven-ton capacity and connected to a central hydraulic system.
8. Hydraulic systems shall be matched with the plow hydraulic system package.
9. A body up indicator light shall be mounted in the cab.
10. The body shall be painted BLACK.
11. All lighting must conform to FCC.

12. The body and hoist shall be warranted against all defects for a period of one-year or longer, if the manufacturer's standard warranty is for a longer time frame.

**FRONT PLOW:**

1. This equipment to be heavy-duty and of the latest design.
2. Plow is to be a power angle trip edge Frink model FTP108, front mounted;
3. Nine (9) foot in length, three eighths (3/8) inch poly mold board, one (1) section trip edge design;
4. AASHO twelve (12) inch punched five eighths (5/8) inch C1090 cutting edge;
5. One pair of mold board shoes, lift chain, marker guides and bolt on rubber deflector;
6. Installed and connected via quick disconnects to hydraulic system;

**PLOW FRAMES:**

1. Custom type hitch with structural A-Frame design, one pair of plow lights, custom designed for specific chassis.

**HYDRAULIC SYSTEM:**

1. Engine mounted gear type clutch pump, mounted via a pre-engineered kit.
2. The system shall have 8.5 GPM flow rate with 1800-psi sectional valve to function snowplow, dump body and hydraulic sander.
3. Single lever control for the snowplow.
4. Frame mounted hydraulic tank with filter and sight gauge.
5. The bidder shall confirm the location of these controls, before mounting inside the cab, with the City of Portsmouth.

**PINTLE HOOK / BALL HOOK**

1. A two (2) inch multi-hitch, ten (10) ton minimum capacity to be mount on a one half (1/2) inch plate and V-Braced to the truck frame with "D" rings.
2. Four (4) prong trailer plug SAE wired;

**WARNING SYSTEMS:**

1. The truck shall be installed with a backup alarm.
2. A complete set of halogen plow lights and turn signals, mounted on the plow frame controlled from the cab shall be installed.
3. Emergency lighting shall be as follows.
4. A Whelen Engineering DOT 3 SYSTEM 102-D three light strobe system is indicative of the type and quality desired but not restricted thereto.
5. Rear facing two strobe lights, two oval taillights to be installed in rear post of the body. The two oval backup lights to be in the rear apron.
6. A strobe light is to be mounted on the top of cab in the center with no interference with the dump body cab protector.
7. The cab-mounted strobe shall operate in conjunction with the rear units.
8. All wiring to be sealed wiring harnesses.
9. All controls and power pack shall be mounted inside the cab.
10. Controls shall be a five switch rocker panel to function lights and the clutch pump.
11. Include complete specifications on the make, model and type of light system offered.

**TWO-WAY RADIO:**

A two-way radio, antenna, wiring and noise filter shall be installed. The bidder shall obtain frequency and rapid call programming information from the city of Portsmouth, Public Works Department once the bid has been awarded. The radio shall be, with no exceptions, a Motorola CDM1250 VHF (136-174 MHz (, 25-45 watts, 64 channels, with ignition cabling, 138-174 Mosaic Antenna and installation package.

**RUSTPROOFING:**

The cab, chassis and dump body shall have “Ziebart” rust proofing or approved equal with documentation by an authorized dealership.

**MANUALS:**

At least one (1) parts manual, one (1) operational manual, and one (1) COMPLETE SET of SHOP MANUALS for both the truck and all the components (I.E.: engine, transmission, rear ends, plows, hydraulic systems, lights, and radios) are required, also wiring manual - (can be in CD-ROM.)

**TRAINING:**

A minimum of four (4) hours of operational and four (4) hours of mechanical factory training are required on the complete unit.

**WARRANTY:**

Warranty shall be 3 year / 36,000 miles bumper to bumper with an extended 5 year warranty on the drivetrain.

**TRADE IN:**

1991 Chevrolet K35 1-Ton Dump Truck—Vin# 1GBJK34K3ME152217

To view the trade in, please call Larry Forkum from the Public Works Department at 603-498-4042.

**Bid Price:**

12,000 GVWR, 4 Wheel Drive Cab and Chassis, Dump Body with Front Plow

\$ \_\_\_\_\_  
Price in Figures

\$ \_\_\_\_\_  
Price in Words

**Trade in Allowance:**

\$ \_\_\_\_\_  
Price in Figures

\$ \_\_\_\_\_  
Price in Words

**Base Bid:** 12,000 GVWR, 4 Wheel Drive Cab and Chassis, Dump Body with Front Plow **Minus Trade in Allowance:**

\$ \_\_\_\_\_  
Price in Figures

\$ \_\_\_\_\_  
Price in Words

**Extended Warranty:**

\$ \_\_\_\_\_  
Price in Figures

\$ \_\_\_\_\_  
Price in Words

**Total Bid Proposal = Base Bid plus Extended Warranty:**

\$ \_\_\_\_\_  
Price in Figures

\$ \_\_\_\_\_  
Price in Words

**DELIVERY:**

Bidder must state approximate date from receipt of order delivery will be made:\_\_\_\_\_.

Delivery must be made no later than 90 days from receipt order date.

The undersigned agrees that he/she on behalf of Bidder has read the bid proposal documents, the instruction to bidders specifications and agrees to the terms, conditions and specifications set forth herein. Bidder understands that bid prices shall include delivery FOB to the Department of Public Works, 680 Peverly Hill Road, Portsmouth, New Hampshire.

Bidder further agrees that this bid is not made jointly or in conjunction, cooperation or collusion with any person, firm, corporation or other legal entity. Bidder agrees no officer, agent or employee of the Owner is directly or indirectly interested in this Bid.

Submitted by Authorized Agent:

\_\_\_\_\_  
(Print Name & Title)

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_