City of Portsmouth
Portsmouth, New Hampshire
Public Works
Water/Sewer Division

Bid#16-16
New Freightliner 10 Wheel Dump Truck
With Plow & Wing Plow
Or
Equivalent

INVITATION TO BID

<u>Sealed</u> bid proposals, <u>plainly marked</u> "Bid#16-16 New Freightliner 10 Wheel Dump Truck with Plow & Wing Plow or equivalent" <u>on the outside of the envelope</u>, addressed to the Finance/Purchasing Department, City Hall, 1 Junkins Avenue, Portsmouth, New Hampshire, 03801, will be accepted until September 3, 2015 @ 2:00 p.m. at which time all bids will be publicly opened and read aloud.

<u>Scope</u>: The Portsmouth Public Works Department – Water/Sewer Division is seeking to purchase a new 10 wheel dump truck with plow and wing plow.

This bid is available at http://www.cityofportsmouth.com/finance/purchasing.htm or by contacting the Finance/Purchasing Department at the following number: (603) 610-7227.

Questions may be directed to the Finance/Purchasing Department. Addenda to this proposal, if any, including written answers to questions, will be posted on the City of Portsmouth website under the project heading.

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.

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 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/her 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.
- E. Addenda to this proposal, if any, including written answers to questions, will be posted on the City of Portsmouth website at http://www.cityofportsmouth.com/finance/purchasing.htm under the project heading. Addenda and updates will NOT be sent directly to firms. Bidders submitting a proposal should check the web site for addenda and updates after the release date. Bidders should print out, sign and return addenda with the proposal. Failure to do so may result in disqualification.
- F. Disadvantaged Business Enterprises (DBEs) as defined in 49 CFR Part 26 are encouraged to submit a proposal. If applicable, documentation of DBE status shall be included with the submittal.

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 <u>not</u> acceptable.

III. Withdrawal of Bid Proposals

A bidder will be permitted to withdraw his/her 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:

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

AWARD

I. Consideration of 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.

III. 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.

Bid Specifications

New Freightliner 10 Wheel Dump Truck with Plow and Wing Plow or Equivalent: For the Water/Sewer Division of the City of Portsmouth Public Works Department

The intent of this specification is to procure a new, latest model, ten wheel dump truck that is fully functional and equipped for snow removal. The dump body will have a telescoping hoist and three tailgate doors built into the tailgate for the ease of access to smaller quantities of materials. The front plow will be power angle with a quick connect hitch. The wing plow will have the tower mounted to the front plow frame and will use hydraulic cylinders to lift or lower into position.

The City of Portsmouth will trade in a 2003 International 7600 10 wheel dump truck with a plow and wing.

The following are minimum acceptable specifications. Any exceptions shall be noted in the column titled "Actual Bid".

Minimum Requested:	Actual Bid:
Engine Components: 410 Horsepower, 1650 LB/FT Torque	
Onboard diagnostics	
Carbon Emission Certification-Clean Idle	
Side of hood air intake with firewall mounted air cleaner and inside/outside air with snow door	
DR 12V 180 Amp 28-SI quadramount pad alternator with remote battery volt sense	
19.0 CFM single cylinder air compressor with safety valve	
Electronic engine integral shutdown protection system	
Right side outboard under step mounted horizontal after treatment system assembly with right side B-pillar mounted vertical tailpipe	

Engine after treatment device, automatic over the road regeneration and dash mounted regeneration request switch	
Ten Foot exhaust system height with a right hand curved tailpipe	
Left side mounted medium duty diesel exhaust tank	
Stainless steel after treatment device, muffler, tailpipe shield	
1500 square inch aluminum radiator with drain valve	
1350 Adapter flange for front PTO provision	
1500 watt/ 115 volt block heater with engine heater receptacle under left side door	
12V 39MT+ HD/OCP starter with thermal protection and integrated magnetic switch	
Transmission Equipment: Allison 4500 RDS automatic transmission with PTO provision	
Vehicle interface wiring with body builder connector mounted back of the cab	
Electronic transmission access connector mounted to the firewall	
Magnetic plugs- engine drain, transmission drain, axles fill and drain	
Dash mounted push button electronic shift Control	
Frame mounted water to oil transmission cooler	

Electronic transmission oil level check	
Synthetic Transmission Fluid	
Front Axle and Suspension: 20,000 lb front axle with 20,000 lb flat leaf suspension	
Graphite bronze bushings with seals	
16.5 x 6 front brakes with automatic slack adjusters	
Frame mounted power steering with cooler	
Front hub, caps with window, center and side plugs. Synthetic 75w-90 front axle lube	
Rear Axle and Suspension: 46000 lb rear tandem axles with 46000 lb. parabolic leaf springs and shock absorbers	
16.5 x 8.62 rear brakes with automatic slack adjusters	
Driver controlled traction differential, both tandem axles	
5.38 rear axle ratio	
Brake System: ABS without traction control, air dryer with integral air governor, heater, and oil coalescing filter for air dryer	
Aluminum air brake reservoirs with pull cables	
Reinforced nylon, fabric braided and wire braided chassis air lines	

Trailer Connections: Air connections to the end of frame with	
glad hands	
SAE J560 7-way primary trailer receptacle Mounted to the end of frame	
Supplemental J560 7-way receptacle located With primary receptacle	
Wheelbase and Frame: 194" wheel base	
74" rear frame overhang	
24" front frame extension	
Inner frame reinforcement at front suspension	
Additional front frame reinforcement for snow plow – body vendor to install	
Fuel Tank: 70 gallon aluminum rectangular tank mounted on left side	
<u>Tires:</u> Michelin XZU-S2 315/80R22.5 20 ply radial front tires	
Michelin XDE M/S 11R22.5 16 ply radial rear tires	
Wheels: 22.5x9.00 10-hub pilot 5.25 inset 5-hand steel disc front wheels painted black	
22.5x8.25 10-hub pilot 2-hand HD steel disc rear wheels painted black	
Nylon wheel guards front and rear all interfaces	
Exterior Cab: Conventional cab	
Air cab mounts	

3 ½ inch fender extensions	
Left side and right side exterior grab handles with rubber insert	
Fiberglass hood with access hatches	
Tunnel/firewall liner	
Dual 24 inch round polish aluminum air horns roof mounted	
Door locks and ignition switch keyed the same with 6 keys	
Rear license plate mount at end of frame	
Halogen composite headlamps with bright bezels	
LED aerodynamic marker lights	
Headlights on with wipers with low beam daytime running lights	
Integral stop, tail, and backup lights	
Standard front turn signal lights	
Dual west coast bright finish heated mirrors with left hand and right hand remote	
Left hand and right hand 8 inch bright finish convex mirrors mounted below primary mirrors	
Right hand and left hand 8 inch heated stainless fender mounted convex mirrors with tripod brackets	
Right hand down view mirror	
Standard side and rear reflectors	

Right hand aftertreatment system with cab access and plain diamond plate cover	
Composite exterior sun visor	
Rear window	
Tinted door glass left hand and right hand with a tinted wing window	
Right hand and left hand electric powered Windows	
One piece tinted curved bonded windshield with heated wiper blade parking areas	
Interior Cab: Molded plastic door panels with aluminum kick plates on lower door	
Black mats with a single layer of insulation	
Center storage console mounted on back wall	
Two cup holders mounted on dash	
Switch expansion module	
2 ½ lb. fire extinguisher	
Triangular reflectors	
Heater, defroster and air conditioner	
HVAC duct work with snow shield for fresh Air intake	
Main HVAC controls with recirculation switch	
Heavy duty air conditioning compressor	
Solid State circuit protection and fuses with spare fuse kit	
Dome door activated left hand and right hand dual reading lights	

Left hand and right hand electric door locks	
12 volt power supply in dash	
Premium high back air suspension driver seat with 3 chamber air lumbar, integrated cushion extension, forward and rear cushion tilt, adjustable shock absorber	
Premium high back air suspension passenger seat with 3 chamber air lumbar, integrated cushion extension, forward and rear cushion tilt, adjustable shock absorber	
Dual driver and passenger seat armrests	
Left hand and right hand integral door armrests	
Adjustable tilt and telescoping steering column	
Eighteen inch steering wheel	
Driver and passenger interior sun visor	
Instruments and Controls: Black gauge bezels	
Low air pressure light and alarm	
Single brake application air gauge	
Two inch primary and secondary air pressure gauges	
BW tractor protection valve	
Trailer hand control brake valve	
Two valve parking brake system with dash valve control, auto-neutral and warning indicator	

Dash mounted air restriction indicator with	
graduations	
Ninety seven decibel backup alarm	
Electronic cruise control	
Electronic cruise control	
Programmable RPM control	
Di di di Garaga	
Diagnostic interface connector, 9 pin, SAE J1939, located below dash	
J1939, located below dash	
Fuel filter restriction indicator	
Engine coolant temperature gauge	
Engine oil temperature gauge	
Engine on temperature gauge	
Engine oil pressure gauge	
Two inch fuel gauge	
Two inch Transmission oil temperature	
gauge	
560	
Inside/outside temperature gauge with	
LCD Fahrenheit display	
Engine and trip hour maters integral within	
Engine and trip hour meters integral within driver display	
Overhead instrument panel	
Smartplex hub module with overhead switch switch mounting, driver side, 6 switch slots	
switch mounting, driver side, o switch sions	
Six on/off Smartplex switches	
AM/FM/WB radio with Bluetooth and	
microphone, USB, front and rear inputs and J1939, dash mounted	
and 31737, dash mounted	
Radio wiring with power cutoff when	
vehicle is in reverse gear	
Two modio amostroma massactad in sale	
Two radio speakers mounted in cab	

Multi-band AM/FM/WB/CB left hand mirror mounted antenna system	
Power and ground studs in dash plus roof console wiring	
Overhead console CB radio provision	
Speedometer MPH/KPH	
3000 RPM Tachometer	
Remote engine diagnostics	
Digital voltage display integral with drivers display	
Single electric windshield wiper motor with delay programmed to slowest speed with parking break set	
Marker light switch integral with headlight switch and dual connectors and switch for snow plow lights. Low beams off with high beams on	
Self canceling turn signal switch with dimmer, washer/wiper and hazard in handle	
Diagnostics and Software: Diagnostic software and all required laptop computer cables and or connections for diagnosis of engine, chassis and electrical system, and ABS system. Latest version of Allison transmission software shall be provided for programming with one day of on site programming instruction.	
Service and Parts Manuals: For the Life of the vehicle, the contractor shall provide web based access to all truck specific service manuals, technical specifications and parts catalogs	

Color: Cab color- Wheatland yellow	
Chassis- Black	
Warranty: Standard factory warranty on cab and chassis	
Engine- 7 year/250.000 mile full coverage	
Transmission- 5 years/unlimited miles	
Cooling- 5 years/200,000 miles	
<u>Dump Body:</u> 15 cubic yard, 13 foot body will be standard	
Headboard shall be a minimum of 48" high constructed of 10 gauge steel with a ½ cab shield	
Body floor will be constructed of 1/4" AR steel	
Body shall have a dirt shedding boxed top rail with vertical side bracing and 6" high rear board pockets. Straight vertical sides will be 7 gauge steel and dirt shedding lower rub rail.	
Tailgate plate shall be constructed with ¼ " AR steel. It shall have perimeter box bracing made from 10 gauge material. There shall be two 3/8" grade 30 galvanized spreader chains. Three asphalt doors will be standard.	
Tailgate will be equipped with air actuated locking mechanism with auxiliary manual flip over style safety locks	
Body sides shall be 48" minimum, tailgate 54" minimum	
Body shall be equipped with a safety brace	
Polyethylene fenders shall be mounted to	

the chassis over the rear tires with mud flaps	
Body shall be equipped with stop/turn lights, rear strobe lights, front strobe lights mounted in the headboard, back up lights, and reflectors. All lights shall be LED	
Body shall be equipped with an in cab operated electric tarper	
All shop manuals shall be included.	
Front Hitch For Snow Plow: The front hitch will be quick coupling power tilt consisting of a "male" hoist and a "female" frame that attaches to the push frame of the plow	
Shall have a 4" bore by 12" stroke double acting nitride hoist cylinder	
Shall have 2 ½" double acting locking cylinders to secure the bottom of the "female" frame	
The hitch shall allow the installation of a wing system without modification. The cross tubes shall be 6" by 4" by 3/8" tubing	
Cheek plates will be 5/8" heavy duty steel with 5/8" bumper plate	
One set of halogen plow lights with integral Turn/park lights shall be standard	
Wing Plow Hitch: The wing control cylinder shall be a 3" diameter bore by 24" stroke double acting with a 2" nitride piston rod	
The push arm bracket shall be fabricated of HSS 6" by 6" by ½" by 3/8" vertical height. The wing arms attach to ¾" thick double arm mounting ears	

The rear saddle shall be a laterally mounted HSS 6" by 4" by 1/2" thick	
The front tower shall be box section by design. It shall have a single wire rope sheave on the cylinder rod end and a single sheave on the tower top. The slide travel will be twice the cylinder stroke	
The upper wing arm shall have a tension spring. The outer member is a 3" diameter schedule 80 tubular section and the inner section is a 2 3/4" diameter solid bar. Universal joint connectors will be located at each end	
The lower wing arm outer member shall be a 2 ½" diameter schedule 80 tubular section and the inner section is a 2 ¼" diameter solid bar. Universal joint connectors will be located at each end	
The sheaves shall be 6 " nominal size with extra deep rope groove, 1 ¼" axle with a greaseable brass bushing. The sheaves will be machined steel construction	
The wire rope shall be ½" diameter SS steel with double clamps, loop thimbles, and anchor shackles at each end	
The slide control cylinder shall be 3 inches diameter bore by 18" stroke double acting with a 2" diameter nitride rod.	
The front wing slider shall consist of a base plate of 3/4" by 7" plate by the height of the tower. The front wing pivot block attaches to the slide with a 1" vertical steel pin. The block will be Safety "D" model having a 1 1/2" diameter grade 5 wing mounting bolt with slotted hex nut and cotter pin	

Front Plow: An 11' power angle torsion spring trip edge	
plow with a 3/8" polymer skinplate no less than 45" high, punched to ASSHO standards 12" on center	
Plow shall be complete with a carbide cutting edge and cover plate	
Trip edge shall be punch to accept a 132" Standard hi-way punched plow blade	
The moldboard shall have 2 curb shoes And 2 steel wear shoes	
The drive frame and reversing mechanism shall consist of an "A" frame, a truss frame and 2 single acting 3 ½" hydraulic cylinders with a 16" stroke and a cushion valve	
Moldboard and truss frame shall pivot about the "A" frame on a removable lubricated pin not less than 3" in diameter and up to 37 degrees to either side of the chassis centerline	
Wing Plow: Wing plow shall be right hand mount with a 10' long cutting edge	
It shall include 2 mounting locations for a 1 ½" pivot bolt. The bolt holes will be reinforced with ½" steel plate	
Wing blades will be punched 12" on center	
Plow intake shall be no less than 32" and discharge no less than 39"	
Cutting edge length will be 120" and the overall length will be 131"	
Two cast steel wear shoes will be fitted to the cutting edge	

Hydraulics and Controls:	
A P20 gear type crankshaft mounted pump with a Spicer driveline and end yokes shall be standard	
A 35 gallon hydraulic oil tank with sight gauge, filter assembly, shut off valves and all necessary control valves required for operation as a plow/dump truck shall be included	
All controls for the plows, dump body and tarper shall be mounted to the drivers right side, at an angle and within arms reach	
All cylinders must have nitrate shafts	
All hoses will be secured and protected Against chaffing	
An as-built set of electrical schematics shall be provided for the body	
Body and all fabricated plow components shall be painted black	
4 hours of training shall be supplied for operators and mechanics	
Warranties: All plows and hitch assemblies will carry a two year warranty from manufacturing defects	
Dump body, hydraulic pump and valves will carry a two year warranty from manufacturing defects	

Vehicle Trade In:

The City of Portsmouth will trade in a 2003 International 7600 10 wheel dump truck with a plow and wing. The truck has 7723 hours and may be viewed by appointment at 680 Peverly Hill Road, Portsmouth NH. You may set up an appointment by calling the City's Fleet Maintenance Division at 603-766-1424

BID PROPOSAL FORM

CITY OF PORTSMOUTH FINANCE DEPARTMENT PORTSMOUTH, NEW HAMPSHIRE

BID PROPOSAL FORM

Item #1 New 10 Wheel Dump Truck w/Plow and Wing Plow:		
\$	_ \$	
Price in Words	Price in Figures	
Item #2 Vehicle Trade In		
\$	\$	
Price in Words	Price in Figures	
Vehicle Total= Item #1 minus Item #2		
\$	\$	
\$Price in Words	Price in Figures	
Warranties: Standard factory warranty on cab and chassis	\$ Price in Figures	
	Price in Figures	
Engine- 7 year/250.000 mile full coverage	\$Price in Figures	
	Price in Figures	
Transmission- 5 years/unlimited miles	\$ Price in Figures	
	Price in Figures	
Cooling- 5 years/200,000 miles	\$ Price in Figures	
Warranties:	Price in Figures	
All plows and hitch assemblies will carry a	\$ Price in Figures	
two year warranty from manufacturing defects.	Price in Figures	

Dump body, hydraulic pump and valves will carry a two year warranty from manufacturing defects.	\$ Price in Figures			
An equivalent <i>New 10 Wheel Dump Truck w/Pla</i> meets the bid specifications. The City in its sole other New Freightliner 10 Wheel Dump Truck v equivalent and satisfies the bid specifications.	discretion will determine if a dump truck			
Basis of Award Grand Total Bid: Vehicle Total + War	eranty Totals:			
\$	\$			
\$Price in Words	Price in Figures			
<u>DELIVERY:</u> Bidder must state approximate not be made.	number of days from award that delivery will			
Approximate Number of Days for Delivery:				
<u>DELIVERY NEW VEHICLE:</u> Delivery is expected approximately 120 days from receipt of award. <u>Bidder must deliver vehicle to the Public Works Department, 680 Peverly Hill Road, Portsmouth, New Hampshire.</u>				
The undersigned agrees that he/she on behadocuments, the instruction to bidders' specificates set forth herein. Bidder understands that bit address identified in the bid documents and bid particularly.	tions and agrees to the terms and conditions d prices shall include delivery FOB to the			
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 in this Bid.	the Owner is directly or indirectly interested			
Submitted by Authorized Agent:				
(Print Name & Tit	le)			
(1 Intervalue & 11t	<i>(</i>)			
Signature:				
Date:				

Company:	
Address:	
City/State/Zip:	
E-mail address:	
Telephone:	
Fax:	