

TOWN OF ORONO
NOTICE AND INFORMATION TO BIDDERS
November, 2019

The Town of Orono will receive sealed bids for the purchase of a **Tandem Axle Wheeler Truck Chassis** to be coordinated with a separate bid for attached Plow and Wing Equipment, and Automated Side Dump Material Spreader Dump Body in accordance with this Notice and Information to Bidders. Specifications, and Bid Form are enclosed for bidding.

The Town of Orono has one (1) complete truck with spreader body, plow, and wing to trade in. The vehicle is a 2005 Sterling LT8500. More details are available in the Request for Proposals, inspection of the vehicle is encouraged and can be made available by appointment.

Bids shall be placed in a sealed envelope marked "**Public Works Truck Bid**" and submitted to the Town of Orono, 59 Main Street, Orono, ME 04473, **on or before 10:00 a.m. on Tuesday, December 3rd, 2019**, at which time they will be opened. Bidders are invited to attend the opening at the Town Office Conference Room; a decision to award the bid will not be made at that time. **Faxed or emailed bids will not be accepted.**

The Town of Orono will make an award of the bid on the basis of price, delivery time, and meeting the specifications. The Town reserves the right to reject any or all bids in whole or in part, and is not necessarily bound to accept the lowest bid if that bid is contrary to the best interests of the Town. The Town of Orono also reserves the right to negotiate with any bidder if that bidder is deemed to be most suited to the Town's needs.

Bidders shall submit their proposals on the enclosed Bid Forms. Terms, cash discounts, and delivery dates are to be specified. The price quoted is to be less any applicable Federal and Maine taxes.

All deviations from the specifications must be noted in detail by the bidder, in writing, at the time of submittal of the formal bid. The absence of a written list of specification deviations at the time of submittal of the bid will hold the bidder strictly accountable to the Town of Orono for the specifications as written. Any deviation from the specifications as written, and not previously submitted as required by the above will be grounds for rejection of the bid.

An official bid award by the Orono Town Council is anticipated for December 9th, 2019. Price must be held firm for 60 days after submittal. Should you have any questions, please contact Rob Yerxa, Public Works Director, at (207) 889-6101.

**Town of Orono
Request for Bids
Tandem Axles Cab & Chassis
November, 2019**

1. Introduction

The Town of Orono will receive sealed bids for the purchase of a **Tandem Axle Wheeler Truck Chassis** to be coordinated with a separate bid for attached Plow and Wing Equipment, and Automated Side Dump Material Spreader Dump Body in accordance with this Notice and Information to Bidders. Specifications, and Bid Form are enclosed for bidding.

2. Trade-In Information

The Town of Orono has one (1) complete truck with spreader body, plow, and wing to trade in. The vehicle is a 2005 Sterling LT8500. More details are available below.

- Unit # 1050 has approximately 102,000 miles

The snow equipment is as follows:

- 11 ft. Tenco Quick Switch Plow & 10 ft Tenco Wing
- Dickey-John speed control spreader system
- Tenco 12 cy side-dump spreader body

The vehicle will be made available for inspection by appointment. Contact Richard Rideout at 889-6103 or Director Rob Yerxa at 889-6101.

Trade-In vehicle will not be available until the completed vehicle is delivered with plowing equipment and body installed.

3. On-Lot Vehicle Option

In addition to a proposal for a unit built to the specifications below, the Town is open to proposals for already built, on-lot vehicles. The intent of this option is to provide an option for early delivery, or cost savings for a unit that would be similar to the specified unit and meets the intent of the specifications as they are provided in this request. Please provide a list of deviations and comments for the proposed unit.

4. Specifications

1. Unit:

- A. Heavy duty, ten (10) wheel dump truck cab and chassis with GVW of not less than 60,000 pounds
- B. Expected gross combination weight of 80,000 lbs

2. Wheelbase and CT:

- A. CT shall be a sufficient length to accommodate a 12 ft. (12 yd.) dump body and plow rigging. This CT measurement shall be approximately 108”;
- B. AF dimensions must allow for a minimum 12” of frame to extend past the rear tires to facilitate mounting the dump body and brake controls with mounted lighting adapters for a trailer;
- C. Unit must have both electric and air lines to the rear

3. Front Axles:

- A. 20,000 lb. minimum capacity I-Beam type, such as Detroit DA-F-20.0-5 20,000 lbs 71.0 KPI 3.74 or equivalent;
- B. Suitable for extreme snow plow and dump truck service;
- C. Oil lubricated and sealed wheel bearings with visible oil supply;
- D. Front springs shall be heavy duty designed to support the plow and wing in travel position, under full ballast load with no appreciable sag or deflection on either side; Left spring shall be 9,500 lbs; Right Spring shall be 10,500 lbs;
- E. Spring mounted hardware and brackets shall be designed for extreme use;
- F. Front axle shall be set-back type;
- G. Front shock absorbers

4. Rear Axle:

- A. Meritor RT-46-160P R-Series tandem axle or equivalent, @ 46,000# GVW;
- B. Approximately 65 MPH at most economical RPM in high gear;
- C. Aluminum housings will not be accepted;
- D. Magnetic oil drain plug;
- E. Oil lubricated and sealed wheel bearings;
- F. Rear axle ratio shall be 5.38 to one;
- G. Interaxle/differential lock out with indicator light;
- H. This assembly shall be capable of off-highway articulation and oscillation characteristics.

5. Engine:

- A. Automotive diesel, 4 cycle 350HP (minimum);
- B. Caterpillar, Cummins, Mercedes or equivalent;

- C. Engine brake;
- D. Turbocharged;
- E. 1250 lbs./ft. minimum torque output;
- F. Screw on water filter (time release) with the following:
 - i. Pre-charged conditioner
 - ii. Factory installed shutoff valves;
- G. Extreme service oil filtration system (remote mount filter assembly will not be accepted);
- H. Magnetic oil drain plug;
- I. Engine block heater: 1,500 watt minimum; 115 volt receptacle with spring operated lid, mounted on front of truck;
- J. Adapter for Spicer coupler 2-2-79 on crankshaft (factory installed).

6. Transmission:

- A. Allison 3500 RDS; 6-Speed, 1,200 ft-lb, is requested and preferred with rear speed sensor and usable ground speed signal.;
- B. PTO openings;
- C. Magnetic oil drain plug;
- D. Water to oil cooler;
- E. Auto neutral;
- F. 3rd gear hold;
- G. Transmission shall have push-button controls with diagnostic and oil level capacity;
- H. Synthetic automatic transmission fluid, meeting TES-295 specifications.

7. Driveline:

- A. Driveline shall be heavy duty and factory balanced;
- B. Main driveline shall use Spicer 1710HD or equivalent with half-round yokes;
- C. Inter-axle driveline shall use Spicer 1710 or equivalent with half-round yokes;
- D. Extended life u-joint.

8. Brakes:

- A. Dual air brake system with ABS (such as Wabco 4S/4M ABS) or equivalent;
- B. Front brakes shall be 16½ x 6 cam type ("Q" + style preferred) with dust covers;
- C. Rear brakes shall be 16½ x 7 cam type ("Q" + style preferred) with two (2) 30/30 long stroke brake chambers on each rear axles, with moisture proof chambers;
- D. All brake drums shall be outboard mounted cast drums;
- E. Haldex or equivalent automatic slack adjusters;
- F. Wabco SS-1200 plus Air Dryer with integral heater and governor or equal, frame mounted;
- G. Reservoirs must have ample road clearance and have sufficient capacity to support all air accessories and the requirements of a tag-along trailer. Compressor shall be a minimum 18.7 cfm type.

- H. All air tanks must be aluminum alloy and must allow for clear frame plow attachment and shall be located under the passenger side of the cab of the truck;
 - I. Pull drains on each reservoir with loose end of the cable attached professionally in a location that is easily accessible to the operator;
 - J. Semi-trailer connections and breakaway valve should be mounted on rear most crossmember in such a way not to interfere with proper placement of lights, Pintle hook or license plates;
 - K. Hand control valve (trolley valve) shall be mounted on the steering column. The brake control valve for trailer shall be mounted on the dash.
9. Rear Springs and Suspension:
- A. Hendrickson HMX 460, or equivalent;
 - B. 46,000 pound minimum capacity;
 - C. Clearance between dual tires shall be 2" minimum. Clearance between inner dual tires and suspension system or brake chambers shall not be less than 2". The minimum clearance must be retained under normal operating conditions under capacity loading. Local modifications, special spacers or wheel components will not be accepted;
 - D. All hardware shall be designed for extreme services.
10. Steering:
- A. Heavy duty dual steer gear design suitable for snowplow and dump truck service and for in town driving, such as TRW TAS85 or equivalent;
 - B. Power steering with replaceable filter with large capacity reservoir.
11. Electrical:
- A. 12 volt Delcotron 200 amp capacity alternator model number 28-SI or equivalent;
 - B. Heavy duty Delco starter 12 volt, #39 MT type, or equivalent, with integrated magnetic switch;
 - C. Minimum of three (3) 12 volt batteries, Group 31 minimum of 2750 CCA maintenance free stud mounting type, must be mounted so as not to interfere with plow mounting;
 - D. Enclosed battery compartment with proper ventilation to prevent corrosion;
 - E. Sealed beam halogen headlights;
 - F. All exterior wiring shall be salt resistant in suitable loom or conduit, using weather proof connectors;
 - G. Manually operated master battery disconnect switch mounted in the cab and readily accessible to the operator. Cole-Hersee Model 75908 or equivalent; must have ability for lock out tag out;
 - H. Sealed battery cable ends;
 - I. Separate fused 7-way semi-trailer socket mounted on rear most cross member with trailer interrupter switch mounted on the dash;
 - J. Electronic features of manufacturer must be able to integrate with plow requirements.
 - K. Radio equipment connections

- L. USB type connections
- M. Minimum ten (10) extra switches for use with equipment, body, and spreader controls

12. Frame:

- A. One piece heavy duty reinforced high tensile heat treated steel, 120,000 psi yield minimum. Straight channel frame rail 7/16" thick;
- B. Minimum section modulus 30.0 per rail;
- C. Bolted construction, designed for extreme service and use;
- D. Front frame extensions are mandatory; and must be long enough to mount plow and still allow the hood to be opened, minimum 6";
- E. Frame shall be designed and constructed not to interfere with Spicer crankshaft coupler 2-2-79;
- F. Special reinforcements shall be provided to prevent diamond shaping under extreme snow plowing conditions, including a cross member located behind cab and designed to transfer plow wing stresses to both longitudinal frame rails;
- G. Local installation of frame reinforcement will not be acceptable.

13. Tires & Wheels:

- A. Front tires shall be 315/80 R22.5 16-ply tubeless type such as Goodyear RSA or equivalent;
- B. Front wheels will include steering offset;
- C. Rear tires shall be 11R x 22.5 16-ply tubeless traction type such as Goodyear G182 or equivalent;
- D. Spare wheel and tire, front and rear matching above specifications;
- E. Both front and rear hubs must be cast iron hub-piloted (ten-hole);
- F. Heavy duty steel accu-ride wheels shall be 22.5 x 8.25 hub-pilot style.

14. Fuel System:

- A. Fuel storage tank mounted on left side of truck with stainless steel support bands shall be constructed with aluminum alloy with 60 gallons minimum capacity. Fuel tank must not protrude beyond the rear of the cab;
- B. Aluminum non skid step;
- C. 12" road clearance minimum;
- D. Fuel lines shall be the proper flexible wire braid type;
- E. Tank shall be vented in such a manner to prevent fuel spillage if operating on a slope or on level ground with the tank full and the fuel warm;
- F. Suitable mud flaps shall be installed to protect the fuel tank from road debris;

15. Cooling System:

- A. Radiator core and tanks shall be heavy duty design and construction;
- B. Ample capacity for continuous high engine output under extreme temperatures and/or operating conditions;

- C. Heavy duty mounting brackets and hardware;
- D. Screw on water filter (time-release) with pre-charge and factory installed shut off valves;
- E. Gates Blue – strip type radiator and water hoses if available;
- F. Radiator and mounts shall be designed and installed so as not to interfere with Spicer crankshaft coupler 2-2-79;
- G. Space shall be provided under or through radiator to mount crankshaft driven PTO and pump without risk of radiator damage caused by shaft failure;
- H. Extended life antifreeze to -60°F;
- I. Air or viscous driven fan clutch.

16. Exhaust:

- A. Vertical exhaust designed and installed not to interfere with any customer installed accessories (i.e. snow plows, hydraulic tanks, wings etc.);
- B. Angle exhaust tip shall be provided;
- C. Heavy duty mounting brackets, elbows, piping and expansion joints;
- D. Shall keep noise to lowest practical level in accordance with Federal and State regulations;
- E. Stainless steel muffler;
- F. Must comply with the latest EPA regulations with regeneration capabilities and warning system.
- G. DEF supply tank shall be mounted such that it is protected from spray from wheels and tires.

17. Filters:

- A. Air filter shall be heavy duty dry type;
- B. Option of drawing air from either under the hood or from the cab so not to clog filter with snow;
- C. All filters must be located for ease of servicing;
- D. All oil, fuel, and water filters shall be disposable spin on type.

18. Cab:

- A. Aerodynamic LED cab marker lights;
- B. Dome light shall have independent switch;
- C. Heater shall be highest capacity available;
- D. Air conditioner with in-cab filtration system;
- E. Automatic low oil pressure; high temperature; low coolant visual and audible warning system operational only when ignition is on;
- F. Electric windshield washer;
- G. Heavy duty 2-speed electric windshield wipers, minimum with time delay;
- H. Dual sun visors;

- I. 16" X 7" Bright finish heated West Coast mirrors with lights, RH remote adjustable (4-way);
- J. Heated 8" convex mirrors, bright finish mounted under primary mirrors;
- K. Grab handles on right and left side;
- L. High visibility three point seat belts on driver's seat;
- M. All exterior lights must be LED;
- N. Driver's seat shall be a Bostrom Talladega 915 or equivalent, high back air suspension seat with air lumbar support, arm rests, and heat;
- O. Passenger seat shall be conventional cloth foam rubber bucket seat;
- P. Instruments shall include, but not be limited to: Oil pressure gauge, water temperature, fuel gauge, brake warning light, low air pressure light and alarm, voltmeter, amp meter, air pressure gauge, dash mounted engine hour meter, and tachometer. All gauges shall be properly marked and illuminated.;
- Q. Full coverage, insulated rubber floor mats;
- R. Heavy duty closed cab all steel construction;
- S. Hood and fender shall be one piece design, tilt forward type with factory installed side access panels to provide safe, easy and complete access to the engine compartment for daily service and periodic maintenance with full plow gear (including wing and post) installed;
- T. Stationary grille is preferred to increase engine accessibility when plow hardware is attached;
- U. Backup alarm;
- V. Fresh air intake for heater/defroster must be protected or designed and installed to prevent entrance of sand/salt;
- W. AM-FM/WB radio with clock;
- X. CB Radio installed - Cobra 29LX radio with 2 ft Firestik II antenna on driver's side;
- Y. Blue-tooth ready to support hands free cell phone use;
- Z. Two-way radio, with wave antenna, and optional external speaker installed using the Town's radio vendor – Whitten's 2-way service. Contact Whitten's 2-way with questions and specifications.
- AA. Suitable heavy duty front bumper must be supplied mounted on frame;
- BB. Electric and Air horn;
- CC. Directional signals, non-cancelling type with motorized flasher;
- DD. Steering column shall be both tilt and telescopic;
- EE. Exterior fiberglass visor;
- FF. Power operated passenger side window with controls accessible by the driver.
- GG. 8" heated fender mirror on each side
- HH. Air ride for cab;
- II. Tinted, heated windshield.
- JJ. Heated windshield wipers - Everblades or equivalent

19. Paint:

- A. Forest Green preferred, or approved stock color if this would significantly reduce delivery time. Wherever possible, lead free paint is required;
- B. Chassis shall be semi-gloss black enamel;
- C. Cab interior to match exterior.

20. Manuals:

- A. Vendor must supply complete set of service and parts manuals, both in print and electronic. This must include Operator's Manual, Parts Manual, Line Chart, Shop and Service manuals for the engine, cab, and chassis. Training must be supplied to Town of Orono staff for electronic manuals.

21. General:

- A. All manuals or software shall be delivered prior to acceptance of the final completed vehicle;
- B. Chassis shall be completely serviced, tuned up, wheels balanced (front) and steering geometry adjusted prior to delivery;
- C. Vehicles offered must comply with all applicable Federal, State of Maine and most current Engine EPA Regulatory Standards. Certified GVWR must be furnished;
- D. A computer analysis of the proposed engine, transmission, rear end combination which is being offered must be provided;
- E. Wherever possible, friction materials must be non-asbestos;
- F. Noise level at the operator's hearing zone must not exceed the applicable OSHA maximum amount with hours of exposure as specified in Table G-16 of Part 1910-95 and D2 of 1926.52. This sound level shall be an eight (8) hour time weighted average in accordance with SAE Standards J1166, J919, J1174 and J1175 or whichever is applicable.

Important Note:

The vehicle as described in this specification will become a complete snow plow vehicle with a plow, wing and dump body. Arrangements must be made at a later date to transport this vehicle to the completing dealer for finish work. A check for front end alignment after all equipment has been installed must be performed before delivery of the finished vehicle. All warranty dates shall begin upon delivery of finished vehicle.

Trade-In vehicle will not be available until the completed vehicle is delivered with plowing equipment and body installed.

Warranty:

- A. PowerTrain - Minimum five (5) years
- B. All other components - minimum three (3) years except wear parts
- C. Towing included for three years
- D. Provide list of covered items at the time of proposal

Comments and Deviations:

Please attach a complete list of comments and deviations from the above list of specifications for the proposed vehicle. In the absence of a list of deviations or omitted items, it will be assumed that all specifications have been met and the bidder will be responsible for meeting the specifications as listed above. Significant deviations or omissions could result in the rejection of the proposal.

TOWN OF ORONO
BID FORM:
TANDEM AXLE WHEELER DUMP TRUCK
November, 2019

<u>Item</u>	<u>Bid Price</u>	<u>Bid Price</u>
	Without Trade In	with Trade In
Tandem Axle Wheeler Dump Truck:		
Option A: On Lot Vehicle	\$ _____	\$ _____
Option B: To Be Built	\$ _____	\$ _____

Delivery Date for Truck:

Option A: On Lot Vehicle	_____ weeks
Option B: To Be Built	_____ weeks

We are aware that the bid will not be awarded until **December, 2019**. Upon award, we will deliver the truck on or before the delivery schedule proposed above following notification of the award.

Signature

Date

Printed name and title

Company name

Address

Telephone

**WHEELER DUMP TRUCK
VENDOR LIST**

Bangor Truck & Trailer Sales
2245 Odlin Road
Hermon, ME 04401

Daigle & Houghton, Inc.
571 Coldbrook Road
Hermon, ME 04401

Colwell Diesel Service
P. O. Box 725
Hancock Road
U. S. Route 1 East
Ellsworth, ME 04605

O'Connor GMC
187 Riverside Drive
Augusta, ME 04330

Whited Truck Center
207 Perry Road
Bangor, ME 04401

Freightliner of Maine, Inc.
422 Perry Road
Bangor, ME 04401

C – B Kenworth, Inc.
Odlin Road
P. O. Box 692
Bangor, ME 04401

**Town of Orono
Request for Bids
Tandem Axles Cab & Chassis
November 2019**

1. Introduction

The Town of Orono will receive sealed bids for the purchase of a **Tandem Axle Wheeler Truck Chassis** to be coordinated with a separate bid for attached Plow and Wing Equipment, and Automated Side Dump Material Spreader Dump Body in accordance with this Notice and Information to Bidders.

2. Addendum #1

It is the Town's intent to purchase a tandem axle truck chassis with the CT measurement appropriate to accommodate a 12 cubic yard capacity dump body with a wing plowing system.

Please change Item A of Section 4.2 "Wheelbase and CT" to read as follows:

A. CT shall be a sufficient length to accommodate a 12 ft. (12 yd.) dump body and plow rigging. This CT measurement shall be approximately **126"**.

Please feel free to contact Richard Rideout (889-6103), or Rob Yerxa (889-6101, ryerxa@orono.org) with any questions.

Please make note of the receipt of this change on your bid form.