



## **TOWN OF LEE**

### **Plow, Wing, Dump Body and Sander Equipment**

#### **I. INVITATION TO PROPOSAL**

Sealed proposals will be received at the Town of Lee Town Hall 7 Mast Rd. Lee, NH 03861 New Hampshire, until **2:00 p.m. Tuesday, May 2nd, 2017** for furnishing Plow/ Sander/ Dump Truck Equipment and Installation, complete, in accordance with the attached specifications, for the Town of Lee Highway Department. Proposals must be submitted in a sealed envelope, plainly marked **Town of Lee Plow/Dump Truck Equipment.**

Proposals, subject to the conditions as shown herein, are requested for the equipment and installation for one plow/sander truck to be mounted on a new 44,000 GVW single axle truck supplied by the Town of Lee, including all charges for freight and delivery, setup, etc.

It is the intent of this proposal for the successful vendor to supply and install plow and wing hitch, plow, wing, sander, central hydraulics, dump body, lights, and pintle plate in accordance with industry standard procedures for setting up a plow/sand truck while keeping the truck length as short as possible.

#### **II. INSTRUCTIONS TO PROPOSERS**

Proposals shall be typewritten or written in ink on the form prepared by the Town. Officials or corporations shall designate their official title; partners or sole owners shall so state giving the names of all interested parties. The person signing the proposal shall initial corrections or erasures.

Proposer shall not stipulate in their proposal any conditions not contained in the specifications. Any proposal which fails to comply with the literal letter of these instructions and the specifications may be rejected forthwith.

1. Requested descriptive material shall be filed with the proposal. Person submitting proposal must supply manufacturer's latest catalog along with complete specifications and warranties on the equipment.
2. In submitting the proposal, the vendor agrees that acceptance of any or all proposals by the Town of Lee within a reasonable time or period constitutes a contract. No delivery shall become due or be accepted unless a Notice to Proceed shall first have been issued by the Town Administrator.
3. The Town reserves the right to accept and reject any and all proposals for due cause, to negotiate with any party, to waive informalities or defects in proposals, to require test proving of proposed equipment by our operators, or to accept such proposals as it shall deem in the best interests of the Town.
4. Discounts for immediate payment or credit terms, where offered, will not be a factor in the

selection process. Payment terms by the Town shall be cash less any applicable discounts to be paid within **30 days of delivery** by the vendor **and formal acceptance by the Town**.

5. The successful proposer shall indemnify and hold harmless the Town of Lee against all claims for royalties, for patents or suit for infringement thereon which may be involved in the manufacturer or use of the material to be furnished.
6. All goods shall remain the property of the seller until delivered to and accepted by the Town.
7. Deviations from the attached specifications are permitted only as separate proposals provided they are submitted as alternate proposals accompanying a conforming proposal. Optional equipment by the dealer or manufacturer, which is not included in these specifications, is to be listed separately.
8. Questions relating to this purchase may be directed to Randy Stevens, at (603) 659-3027 or by email at [rstevens@leenh.org](mailto:rstevens@leenh.org)
9. Selection Criteria: This proposal will be awarded to the vendor whose proposal represents the best value to the Town of Lee. Other selection criteria will include the cost of the equipment, standard and optional features, warranty, durability, performance, reliability of the equipment, economy of fuel and service schedule, maintenance costs, delivery schedule, and service and parts availability.
10. Proposal prices shall remain in full force and affect a minimum of 60 (sixty) days following opening thereof.
11. Plows and appurtenances to be mounted, lubed, serviced, and ready to operate with all components attached upon delivery and must be demonstrated to the satisfaction of the Highway Crew prior to payment.
12. Proposals will include a confirmable delivery date, guarantee information, and price exact. Proposals shall be less Federal Excise Tax, as the Town is exempt. All cost for delivery and installation will be included in the general cost of the bid.
13. WARRANTY:
  - The vendor selling their vehicle shall arrange for the performance of all warranty work so as to avoid the necessity for the Town of Lee to deal directly with the manufacturer and manufacturer's authorized service outlets for components not serviced directly by the vendor.
  - The manufacturer's standard warranty shall be provided for the unit and all accessories and equipment. This warranty shall be a minimum of 12 months on all parts and labor.

### **III. GENERAL SPECIFICATIONS**

1. Units proposed under this solicitation must be new, standard production models of the latest design and in current production.

2. Materials must be of the best commercial quality for the intended service and shall be provided by uses of current manufacturing processes. Materials shall be treated against rust, corrosion and wear.
3. Design of mechanical members shall be such that the stress imposed through normal shock loads at maximum engine torque shall not cause rupture or permanent deformation of undue wear on any member.
4. Proposer shall maintain a service shop within 100 miles of Lee with qualified service people and a representative supply of parts for the machine offered along with the provisions for securing parts from the manufacturer within a reasonable period of time.
5. Proposers must submit with their proposal the latest printed specifications and advertising literature on the units they propose to furnish, along with copies of warranty information.
6. Vendor shall supply one parts book, one operator's manual, and one technical manual for all components.
7. Proposer shall be prepared to give a complete demonstration of the merits of the equipment offered as requested by the purchaser. The equipment so demonstrated shall be complete as offered by the proposer for this proposal.
8. The proposer shall list on a separate sheet of paper accompanying the proposal any variation or exception to the conditions and specifications of the proposal. This sheet shall be labeled **“Exception to Proposal Conditions and Specifications”**.
9. Prompt delivery and installation of the selected equipment is essential. Proposer shall indicate on the proposal form the certified delivery date for completion of the delivery. Liquidated damages in the amount of \$50.00 per day will apply for each day past the stated delivery date provided by the proposer and accepted by the town, unless an acceptable delay is agreed to. The total will be deducted from final payment.
10. All standard manufacturer's accessories and features not in conflict with this specification shall be furnished, mounted and ready to operate.
11. All major wire harnesses shall be color coded and enclosed in conduit or other physical protection.
12. Vendor and/or manufacturer must provide training to Highway Department staff on the operation of this piece of equipment.
13. Equipment shall be lubed, serviced, and ready to operate upon delivery.
14. All accessories furnished by the proposer shall be mounted and ready for operation.

#### **IV. TECHNICAL SPECIFICATIONS**

##### **1. DUMP BODY:**

- Dump body shall be 10 feet long with 30 inch sides and a 36 inch high tailgate.
- Material shall be of a high grade steel 3/16" minimum thickness.
- Floor shall be 1/4 inch thick hardox 450 or equivalent.
- Body shall have a foldup ladder installed on the driver's side of the body.
- All seams to be fully welded.
- Six panel tailgate with 1 1/2" thick upper hardware. Tailgate chains shall have protective wrap. Tailgate will have a D-ring installed inside centered on top for use in removing and installing tailgate.
- Four sander tie downs welded in place.
- All wiring shall be soldered and shrink- wrapped at all connections. Switch panel in cab shall be labeled.
- Hoist shall be minimum of 17 ton under body hoist, or equal, double acting, low-mount type for body mounting, not to exceed 12 inches from bottom of body floor to top truck frame.
- This body shall have a driver controlled air-operated tailgate.
- The tailgate shall have a center lever operated coal/hot top door.
- LED oval Strobe Lights mounted to Front and Sides of Headboard, LED oval Strobes, Stop/Tail/Turn/Back up Lights mounted in rear Corner posts, LED Sander And Wing Lights, All marker lights shall be mounted in body and conform to federal regulations.
- Dump body control lever to be separate from plow control levers.
- Mud flaps to be supplied on front and rear of the rear wheels.
- Poly fenders over rear axle –preferably body mounted
- All required lights and reflectors should be installed after painting. All wire harnesses shall be color coded and enclosed in conduit or other physical protection.
- Fully electrical coverall with wind guard. Controls in cab fully labeled. Canvas shall be waterproof asphalt type. Bullet aluminum coverall preferred.

##### **2. FRONT HITCH:**

- Power tilt front hitch with 1/2-inch side plates reinforced and bolted as far back on truck frame as possible. Side plates shall be designed to accept 4"x 6"x 3/8" rectangle structural tube wing post horizontal support members. The vertical risers shall be a minimum of 4" x 3" x 1/2" angle. The pump-mounting bracket shall be integrated in hitch. The hitch shall provide three (3) push heights. Push lugs shall be on 30 1/2" hole centers for connection of plow to hitch. The bottom of the hitch behind the connection points shall be adequately reinforced to transmit force to truck frame. Front hitch shall be quick detach, power tilt design with protected control lever at front of plow frame to operate tilt. Shall be heavy duty with 1 1/2" hinge pins Plow lights and turn signals to be included.

3. **H.D FULL TRIP REVERSIBLE SNOW PLOW (STEEL) RAM TYPE HIGH SPEED:**
- Plow shall be a 11 foot steel one way hydraulically reversible full trip design
  - Twin cylinder minimum 2" ram diameter with a cushion valve and a safety cross-over valve.
  - Heavy duty trip springs, (compression type).
  - Plow shall have a high carbon 5/8" X 6 x 11' replaceable steel cutting edge.
  - Curb shoes.
4. **WING FRONT MAST:**
- Minimum wing lift shall be 24" with Hydraulic Cylinder Lift Only (No Cables).
5. **WING REAR MAST:**
- Low patrol style rear wing tower (under dump body) shall be able to shelve a minimum of 24 inches.
6. **FULL TRIP HYDRAULIC SAFETY WING:**
- Heavy duty,
  - Overall length 11'.
  - Cutting edge length 10'.
  - H. D. Standoff arms, for full trip safety wing.
  - Front wing adaptor for full trip safety wing.
  - This wing shall trip and return to plowing positions upon striking an immovable obstruction.
  - Wing must be able to be converted to a standard non-tipping wing for high bank plowing by simply inserting locking pins.
  - Wing cutting edge to be high carbon steel to resist abrasion which shall be not less than 5/8" X 6" Standard 12" punch.
  - Hydraulic wing arms shall have an adjustable flow control valve in the up and down line.
7. **RESERVOIR:**
- Hydraulics shall be put on truck to be able to use a reversible plow, hydraulic wing, sander and dump body.
  - The hydraulic oil reservoir shall be a minimum of 30-gallon capacity, fabricated from 12-gauge steel and shall have the enclosure mounted to the top of the oil reservoir as one unit, and shall be equipped with a 2" nipple for filling and a 1/2" plugged coupler at the bottom for draining. Suction and return shall have non- restrictive ball valves. Shall be mounted on left side of truck frame.
8. **CONTROLS:**
- Controls shall be pedestal mounted cable/lever type.
  - Control levers shall be mounted convenient to the driver per direction of the town.

9. **VALVE:**

- The stack-type valve shall have a minimum capacity rating of 35 GPM at pressure up to 3000 psi and shall have an adjustable relief valve pre-set for system incorporated in the inlet section.
- The valve shall have 5 spools.

10. **PUMP:**

- Pump shall be front mounted, drive shaft driven.
- The hydraulics to consist of Rex Roth piston load sense pump and Rex Roth valves or equal. The pump must be a variable axial piston pump, swash plate design. The valves are to be stack type directional control. The hydraulic system shall make all functions hydraulically independent of the other; meaning all functions will operate at the same time or independently. When no hydraulic functions are in use, the pump must go to idle and pumping only 3 to 4 gallons a minute. There shall be a low hydraulic fluid indicator light that comes on in the cab and a shut off switch for the pump making it possible to return to the shop for repair and eliminating the burning up of the hydraulic pump.
- Valves shall have the capability, which allows independent gallons per minute to each hydraulic function with external controls from 2 to 30 gallons, which will determine the performance of each hydraulic function.

The truck is to be plumbed to the rear to operate sander.

11. **PIPES / HOSES:**

- All plumbing shall be of hoses with a minimum 2" suction line from reservoir to pump.
- All quick disconnect couplings shall be HTMA approved.
- Suction and return line hoses shall meet or exceed a rating of SAE 100 R4 and shall not incorporate any sharp bends.
- All hoses shall be of manufacturer's standard sizes and shall be routed away from the exhaust system and the drive shaft and securely tied to the frame. They shall not be under the drive train. Oil pan and transmission should be removable from the truck without taking any hydraulic lines apart. Shall have Stainless Steel Hydraulic lines where feasible with short hose whips.

12. **COLORS:** Plows shall be Safety Orange. Dump body and plow hitch to be painted with Black Imron Paint only.

13. **SANDER:**

- The units must be suitable for sand and salt. They must be capable of delivering and spreading precisely controlled small application rates as well as heavy applications. All units capable of this performance will be considered hydraulically driven pintle conveyor chain with flights fabricated from 3/8" X 1 1/4" steel bar, with adjustable discharge chutes and hydraulically operated spinners.
- Conveyor chain adjusters, chutes, all baffles and defectors shall be stainless steel. Feed gate door to be stainless with screw type jack geared low to be able to open with load BODY: a minimum of #T304 stainless steel 12 Ga., welded construction, minimum 45 degree slopes,

and all required bracing and sub-frame slide –in member. Ten-foot body length with minimum 6 cubic yard capacity (water level). Sloping dual-hinged galvanized screens to be provided over the unit. Spreaders to be slide-in mount into 10' dump body, fastened with four chains from hopper and bolted to welded mount on dump body. Mounting package for secure and efficient mounting and dismounting. Lifting eyes must be provided. Four section external baffles on shoot.

- The sander and plows shall be powered from the front hydraulic plow pumps. The plows and sanders must be able to operate at same time or independently.
- Controls must include in cab Standard 2 knob Sander Control for spinner and conveyor speed and lever operated shut off valve. Quick connection of both electric and hydraulic lines at rear of truck is required with protective plugs and holders for all disconnected lines. All hydraulic lines and electrical are to be mounted in the truck frame, no loose hoses and wires.
- All features including lights listed as standard equipment by the manufacturer, which are not mentioned in this specification shall be included on the bid.
- All controls, hoses and wiring shall be protected (conduit installation will be required for exposed lines) and adequately bushed at body penetrations: Conveyor drive units and control:
- Spinners should be either stainless steel or molded urethane with six integral fins.
- Front bearings shall be plumbed for grease to rear of sander with steel tubing. Must be able to grease from rear of sander. Front take up bearings for conveyor shall be adjustable from rear of sander.
- The tailgate locking bar will be installed so the top is flush with the dump bed bottom. A 5/16" X 1 1/2" X 3" channel iron with a round rod, shall be welded on each end for tailgate latch to hook onto. Side stops shall be welded on to stop side to side movement.

14. **MISC.:** 3/4" thick steel pintle plate with HD D-rings for safety chains.

**TOWN OF LEE, NH**  
**BID PROPOSAL FORM**

All Bids are to be submitted on this form.

1. Package Price for Dump Body, Central Hydraulic System, Plow Equipment, Accessories, and Installation as listed above \$\_\_\_\_\_
2. Price difference for Stainless Steel dump body per above spec \$\_\_\_\_\_
3. Price difference for a Telescopic Hoist with Cross member-less Body \$\_\_\_\_\_
4. Price for installation of a back-up camera. \$\_\_\_\_\_
5. Price for a doghouse cutout in front of sander \$\_\_\_\_\_
6. Price difference for a transmission mounted load sensing pump \$\_\_\_\_\_
7. Price difference for a front mounted tandem gear pump \$\_\_\_\_\_
8. Price difference for a standard steel 11 foot reversible plow \$\_\_\_\_\_
9. Price difference for automated ground spreader controls \$\_\_\_\_\_
10. Price difference for air over hydraulic plow controls \$\_\_\_\_\_

**List on a separate sheet any other options, with costs, that bidder believes are necessary for optimal performance of the vehicle.**

We guarantee that delivery of this equipment shall be made in accordance with the specifications, being the basis of this proposal, and delivery will be made within\_\_\_\_\_calendar days from the issuing of a Notice to Proceed. We will hold price above for a minimum of sixty (60) days from the date of proposal.

We understand that the Town reserves the right to accept or reject any or all proposals, to waive any irregularity in any or all proposals, and to make a vendor selection which is in the best interest of the Town.

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

Printed Name\_\_\_\_\_email:\_\_\_\_\_

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

Address\_\_\_\_\_