

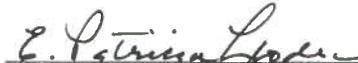
TOWN OF NEWTOWN, CONNECTICUT

INVITATION TO BID

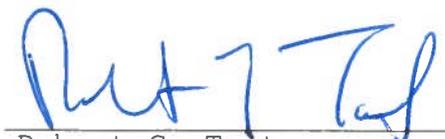
Sealed bids will be received at the office of the Financial Director, **3 Primrose Street**, Newtown, Connecticut 06470, until but no later than **11:00 am, Tuesday, June 30, 2015**:

Cover:**COMBINATION STAINLESS STEEL DUMP BODY/MATERIAL SPREADER/SNOW PLOW**

The Purchasing Authority of the Town of Newtown reserves the right to accept or reject any or all options, bids or proposals; to waive any technicality in any bid or part thereof, and to accept any bid deemed to be in the best interest of the Town of Newtown. The Town of Newtown is an Affirmative Action Employer-MBE/WBE are encouraged to bid. Specifications and bid documents may be obtained at www.newtown-ct.gov under the Purchasing Department.



E. Patricia Llodra
First Selectman



Robert G. Tait
Financial Director

PURCHASING AUTHORITY

TOWN OF NEWTOWN PURCHASING AUTHORITY
INSTRUCTIONS TO BIDDERS

1. Submit bids in a sealed envelope plainly marked to identify the particular bid. It is the sole responsibility of the bidder to see that the bid is in the hands of the proper authority prior to the bid opening time. Bidders may be present at the opening of the bids.
2. Withdrawals of, or amendments to bids received later than the time and date specified for bid opening will not be considered.
3. The Purchasing Authority of the Town of Newtown reserves the right to accept or reject any or all options, bids, or proposals; to waive any technicality in any bid, or part thereof, and to accept any bid deemed to be in the best interest of the Town of Newtown, Connecticut.
4. Bids may be held by the Town of Newtown for a period not to exceed sixty (60) days from the opening of the bids for the purpose of reviewing the bids and investigating the qualifications of bidders prior to the awarding of the contract.
5. Bids must be submitted on the "Sealed Bid Request" form enclosed at the end of this packet. All items must be filled in (unit cost, trade-in for each unit, etc.). Failure to comply with this requirement will automatically void the bid.
6. Trade-ins, when indicated, will be listed on the Sealed Bid Request form. The Town of Newtown reserves the right to trade all, some or none of the vehicles listed as deemed in the best interest of the Town. Bidders may submit a bid on the new vehicles with or without trade-ins or may submit bids on the trade-ins only, either individually or by lot. Trade-ins must be detailed individually as indicated on the Sealed Bid Request form. Trade-ins may be used in determining the lowest responsible bid.
7. The Town may consider proximity of the vendor's service as a factor in determining lowest price and reserves the right to award in whole or part to one or more vendors.
8. The Town agrees to pay for all equipment within thirty (30) working days after the equipment has been accepted and claim (invoice) presented.
9. Bid Security when required must be by a **certified check, letter of credit or surety bond** for five percent (5%) of the total bid, payable to the Town of Newtown. If a surety bond is enclosed, it shall be written on AIA Document A310, Bid Bond, unless otherwise provided in the Bidding Documents, and the attorney-in-fact who executes the bond on behalf of the surety shall affix to the bond a certified and current copy of the Power of Attorney.
10. The Town of Newtown reserves the right to retain the bid security of Bidders to whom an award is being considered until either: (a) the Contract has been executed and bonds, if required, have been furnished, or (b) the specified time has elapsed so that Bids may be withdrawn or (c) all bids have been rejected.

11. Prior to awarding any contract exceeding \$25,000.00 for the construction, alteration, or repair for any public building or public work, a 100% performance bond and a labor or materialmen's bond must be furnished by the person to whom the contract is awarded.
12. Performance Bond when required must be by a **certified check, letter of credit or performance bond** for one hundred percent (100%) of the total bid. When submitting a performance bond, bonds must be written on AIA Document A312, Performance Bond and Payment Bond. Both bonds shall be written in the amount of the Contract Sum.
13. The successful bidder will be required to post a Certificate of Insurance, with the Town of Newtown named as additional insured, in an amount to be determined by the Town of Newtown.

TOWN OF NEWTOWN

**COMBINATION STAINLESS STEEL DUMP BODY/MATERIAL SPREADER WITH
SNOW PLOW HITCH AND SNOW PLOW**

The following are minimum specifications to describe a snow removal package to be installed on a single axle cab and chassis with a 181" wheel base and 96" cab to axle dimension.

All items shall be checked comply or exclude. Failure to check any item will deem bidder as non responsive and his/her bid will not be considered. Any and all exclusions taken from this specification must be addressed by the prospective bidder in writing and shall be submitted with bid.

Body General Description

Heavy duty stainless steel body serving as a dump body or transforming to a sand/salt material spreader by means of a hydraulically tilting floor.

Body	Comply	Exclude
3/16" 304# stainless steel	_____	_____
Weight of body including hoist and hardware not to exceed 4860 pounds	_____	_____
Inside width to be 88 inches	_____	_____
Inside length to be 120 inches	_____	_____
Outside width 97 1/2 inches	_____	_____
Side height 27 inches	_____	_____
Tailgate height 39 inches	_____	_____
Cab shield 24 inches, 10 gauge 304# stainless steel, reinforced on both ends	_____	_____
Front panel to be constructed from 3/16" 304# stainless steel, reinforced by two full length vertical V shaped outside breaks filled in with 3/16 stainless steel plate	_____	_____
Sides, constructed of 304# stainless steel, reinforced with two 10 gauge stainless steel side posts on each side	_____	_____
Bottom of sides comes to a 45 degree formed taper	_____	_____
Top tube is 4" x 3" 304# stainless steel	_____	_____
Tilt side must be single wall design serving as both outer and inner wall and moving with floor as one	_____	_____
There will be two front and rear corner posts made of 10 gauge stainless steel	_____	_____
 Tailgate		
Constructed of 3/16" 304 stainless steel	_____	_____
Six panel design	_____	_____
Top ears will be made of 3/4" 304# stainless steel	_____	_____
Top and bottom pins made of 1 1/4" cold rolled steel	_____	_____
Top hinge will include grease fittings	_____	_____
Latches shall be over center design	_____	_____
Tail gate will be double acting	_____	_____
When tail gate is horizontal it will be level with the floor	_____	_____
Tailgate will be air operated, with control inside cab of truck	_____	_____

Floor

Constructed of 3/16" 304 Hardox 450 steel 205,00 PSI yield strength, no exception

Reinforced by two steel flats formed into a honeycomb structure

between five 3" channel cross members traversing under the floor

Floor hinge, shall be bolt on, for ease of removal, by three blocks held by 4" x 5/8" grade 5 bolts. Welded hinges or piano type are not acceptable

Blocks shall be grooved and fitted with grease zerks that are remote mounted to one location for ease of maintenance. All extension hoses to be 2000psi hydraulic type with swivel fittings

Pins shall be three piece, 1 3/4" in diameter and made from hard induction chrome

The combination of this floor hinge system and the above mentioned floor and understructure shall eliminate the need for 50/50 flow dividers or equalizing hydraulic systems. Such systems are not acceptable.

Understructure

Two full length I beams at 24.5 lbs. per foot

Three 1/4" flats welded between I beams

Three square tubes 3" x 3" x 3/16 traverse top of I beams joined at ends by 4" x 3" x 3/16" tube

A 3" x 1-1/2" x 1/8" steel tube and 1/4" steel flat stock is welded at the front of the I beams

A 14" x 91" x 3/16" bumper is welded at the back of the I beams

Longitudinal Conveyor

The conveyor is an integral part of body floor and runs longitudinally down the driver's side of the body, discharging in front of the rear wheels. Center conveyor units as well as rear discharge units are not acceptable

Conveyor frame is constructed of 3/16" Hardox 450 205,000 PSI

Removable conveyor wear plate constructed of 3/16" Hardox 450 steel 205,00 psi yield strength

Conveyor cover plates are in two sections constructed of 3/16" Hardox 450 steel 205,000 psi steel reinforced with 2" x 3/16" flats

Conveyor cover plates are integral to unit and do not need to be removed from body

Chain maintenance system includes access panel in rear apron to allow for removal of chain and slotted doghouse to allow for removal of gearbox

Chain and Driving Mechanism

Self cleaning pintle type

18 1/2" overall width

Bar flights, 3/8" x 1 1/4" spaced every other link

All chain links are protected by integral chain guard leaving only bar flights exposed

Chain is driven by 25:1 ratio gear box

Gearbox assembly is installed on discharge end and is bolt on	_____	_____
Front sprockets are ductile cast iron grade 60	_____	_____
Drive shaft is 1 1/4" high resistant stress proof 100,000 psi steel	_____	_____
Rear sprockets are ductile cast iron grade 30	_____	_____
Idler shaft is 1" diameter 90,000 psi steel	_____	_____
Bearings are self aligning and greaseable	_____	_____
Tension of chain is adjusted by use of two grease adjustable actuators	_____	_____
the use of threaded rods or rollers for chain tensioning is not acceptable	_____	_____

Spinner Assembly

Spinner shaft is sealed type with motor on top	_____	_____
Hydraulic motor is 30 cubic inch and is bi-rotational	_____	_____
Spinner shaft contains two embedded self greasing ball bearings	_____	_____
Spinner assembly is chassis mounted and is bolted laterally	_____	_____
adjustable and removable	_____	_____
Urethane spreading disc is 18" diameter, steel discs are not acceptable	_____	_____
Ultra light non-adhesive polyethylene chute feeds the spreading disc	_____	_____
chute is both adjustable and removable, steel chutes are not acceptable	_____	_____

Hoist Cylinder

Mailhot CS-90-2 two stage telescopic cylinder	_____	_____
Capacity of 20 tons at 2000psi	_____	_____
Base of cylinder shall be largest stage. Inverted cylinders are not accepted	_____	_____
Cylinder is nitrated using the quench polished method. Chrome cylinders	_____	_____
are not acceptable	_____	_____
Minimum 2 year warranty against corrosion	_____	_____

Tilt Floor Hydraulic Cylinders

Two Mailhot double acting cylinders	_____	_____
Cylinder size is 3 1/2" diameter x 22 1/2" stroke	_____	_____
Combined capacity of 19 tons at 2000 psi	_____	_____
Cylinder is nitrated using the quench polished method, chrome cylinders	_____	_____
are not acceptable	_____	_____
Minimum 2 year warranty against corrosion	_____	_____
Cylinder ends contain bushings with grooves and zerks for greasing	_____	_____
Pins holding cylinders in place are made from 60,000 psi cold rolled steel	_____	_____
Bottom cylinder bracket is cast iron	_____	_____
Bottom cylinder bracket must be located on passenger side I beam	_____	_____
to provide push from a place of strength	_____	_____
Top of cylinder must mount in base of passenger sidewall and	_____	_____
have access ports from which cylinder pins may be accessed	_____	_____

Safety and Accessories

Stainless steel ladder, fold up with self cleaning steps and grab handle	_____	_____
located at left rear corner of body	_____	_____
Stainless steel holder for two chock blocks	_____	_____
Stainless steel shovel holder with 5/16" snapper pin	_____	_____

Safety leg to hold the body in raised position	_____	_____
Safety step inside body at left rear corner	_____	_____
Safety leg to hold the floor in raised position	_____	_____
Eleven safety stickers	_____	_____
Center mud flap to protect rear brake chambers	_____	_____
Four rubber mud flaps	_____	_____
All mud flap and center flap brackets shall be stainless steel	_____	_____
owners manual	_____	_____
parts manual	_____	_____

Additional Body Requirements

Bolt on 12" apron	_____	_____
Complete body grease manifold	_____	_____
Pintal hitch with 3/4" tow plate to be 25 ton with D-rings	_____	_____
Glad-hands	_____	_____
7 pin round style plug	_____	_____
Poly fenders over rear wheels to protect the understructure	_____	_____
ALC hydraulic load cover via central hydraulics	_____	_____
Oak side boards painted black	_____	_____

Hydraulic System

The system is to be furnished and completely installed to power and control all hydraulic requirements satisfactorily, both independently and collectively	_____	_____
80CC minimum variable displacement pump - directly mounted to the PTO	_____	_____
Electric shift PTO to be driven by a 4500 series Allison transmission	_____	_____
AIR - proportional load sense control valves with Airquip test fitting to include inlet with relief, plow up/down, left/right, body up/down, side dump up/down with down pressure relief, load cover with relief	_____	_____
Five (5) air featherable in cab controls to be Del Air fully proportional	_____	_____
Cirus Spread Smart Rx ground speed controller, open loop	_____	_____
Hammerhead 12-switch accessory panel	_____	_____
Cirus Spread Smart Rx with 7 inch LCD color display	_____	_____
All mounting locations will be located per Fleet Foreman	_____	_____
Stainless steel enclosure for entire valve assembly	_____	_____
IP68 cable connections no exceptions	_____	_____
All Cirus equipment must be installed by a authorized Cirus dealer	_____	_____
Hydraulic tank, to be frame mounted on right side behind cab, with low oil sender, breather cap and sight/temp gauge	_____	_____
Shut off valves, to be 1/4 turn ball shut off valves	_____	_____
Return filter will be 10 micron, spin on type, with 15-psi relief by-pass and conditions indicator gauge	_____	_____
Stainless steel hydraulic manifold, all return lines to be routed into centrally located manifold	_____	_____
Hydraulic pipes to deliver and return hydraulic oil from control valve to plow functions to be, integrated, modular, 1/2" ID, stainless steel pipe,	_____	_____

custom bent and mounted in cushion clamps. Not to obstruct normal maintenance items. Extended lengths of hydraulic hose will not be accepted _____

Pressure and suction line to pump appropriate size to meet system requirements. Joined with hydraulic hose at flex point _____

Hydraulic hose may only be utilized at flex points and must have swivel fittings on both ends for ease of replacement if necessary _____

Electrical and Lighting

Plow lights will be truck Lite #80800 mounted on hood with custom aluminum brackets _____

A Betts complete sealed system with Truck-Lite junction box, all terminals coated with silicone dielectric grease _____

Spinner light - Truck-Lite _____

Load light - Truck-Lite _____

ICC lighting - Betts with Lexan, heat and shatter resistant lenses _____

Back up alarm - visual and audible _____

All auxiliary electrical components to be powered by self contained, circuit breaker protected, electrical distribution system. _____

LED Strobe system - 360 Degree

Six (6) Whelen 500 series two wire LED strobes mounted in rubber grommets. Dual cab shield corner mounted Amber LED 500's. Rear corner post to incorporate LED 500's amber, stop/turn/tail & reverse. In addition there shall be two (2) Whelen 500 ambers mounted under the rub rail. System will not require a power pack. _____

Plow Frame

A custom tilt over hitch with a weight of 850lbs. Minimum Frame attachment shall be manufactured in such a way as to allow the hood of a chassis fitted with a tilt engine cowl and stationary grill to tilt forward over the upper portion of such attachment _____

Plow frame shall have three(3) push points with a 30.5" ear spacing 1/2" steel construction _____

Hitch lifting arm shall utilize a 4" x 10" double acting lift cylinder _____

Plow frame shall be mounted as close to the grill of truck as possible _____

There shall be 5/8" thick Cheek Plates extending as far back as possible under chassis frame rails _____

Frame extension and hitch must be designed to prevent damage when plow is raised or over extended in a vertical position(when pushing back high snow banks) _____

Plow hitch lift arm must not contact the plow when lift arm is in most downward position _____

Plow hydraulic disconnect shall utilize a pressure relief Cushion valve to be mounted on truck side plow frame _____

Snow Plow

Wausau R4511

45" high

9" push arms

Rubber snow plow flap

Plow guides

Paint

All non stainless body parts requiring paint shall be sand blasted, primed, and painted

Warranty

Body and load cover shall be a minimum two (2) years and two (2) years on the main dump cylinder. All other cylinders one (1) year with two (2) year corrosion resistant warranty

Cirus hydraulic system shall carry a three (3) year warranty

Delivery

Winning bidder must deliver completed unit to customer in sixty (60) days

AROC (as receipt of chassis) OR A \$150.00 A DAY PENALTY WILL BE DEDUCTED OFF AWARDED BID PRICE

Alternate Bid Items

Add

A. Snow plow Wausau model EX1160

9" push arms

Rubber snow plow flap

Plow guides

Gutter side of plow to be modified with a 45 degree miter cut for mailbox clearance

B. Stainless steel coal door

Delivered units must include anything necessary but not specifically mentioned to have a complete and operational unit.

