



TOWN OF GRAND FALLS-WINDSOR

TENDER FOR ONE NEW 2017/2018 FOUR- WHEEL DRIVE LOADER

TENDER #17040503

General Conditions

1. All taxes must be included.
2. Unit shall not be a prototype, must be in production for at least two years, and have a proven record of mechanical reliability.
3. Tenders which are incomplete, conditional, obscure, or qualified may be rejected as invalid.
4. The equipment list in the Town's specifications must be furnished whether or not included in the standard manufacturer's specifications.
5. The term "standard" is defined as that equipment listed or shown as standard equipment at no extra cost in the manufacturer's current publication.
6. Deviations from specifications must be noted with the bid proposal. Deviations will be considered informalities in bidding and may not be accepted by the Town.
7. In case of tie low bids, the Town reserves the right to use the most expedient means available to arrive at an award.
8. Public Tendering Opening: 2:00 p.m., Thursday, April 27, 2017 at the Town Office, 5 High Street, Grand Falls-Windsor, NL A2A 2J8.
9. This tender is not intended to exclude standard equipment or products unless the words "no substitute" are included in the description.
10. Emailed tenders will only be accepted as a change to the tender already received.
11. Prices quoted must be F.O.B. Public Works Depot, 1-3 Bayley Street, Grand Falls-Windsor, NL.

12. The Town of Grand Falls-Windsor reserves the right to reject any or all tenders and to accept any bid deemed to be in the Town's best interest. The lowest or any tender will not necessarily be accepted.

13. For further technical information or clarification please contact:

Wayne Tait, Supervisor of Engineering & Public Works

Phone: 709-489-0421

Cell: 709-486-4687

Email: wtait@townofgfw.com

14. Sealed tenders marked "**TENDER FOR ONE NEW 2017/2018 FOUR-WHEEL DRIVE LOADER**" are to be addressed and delivered on or before **2:00 p.m., Thursday, April 27, 2017** to:

Susanne Hillier

Purchasing Officer

Town of Grand Falls-Windsor

5 High Street

P.O. Box 439

Grand Falls-Windsor, NL

A2A 2J8

Phone: 709-489-0422

Fax: 709-292-0019

Email: purchasing@townofgfw.com

15. Vehicles/equipment purchased by the Town of Grand Falls-Windsor are/is not to be released to the Town of Grand Falls-Windsor without written authorization of the Town's Purchasing Department.

16. Brand names or brand name indicators, makes, and model numbers contained herein are for reference only in regards to the type, level of quality, and durability that the Town of Grand Falls-Windsor will accept as a minimum in these specifications.

17. Bidders must meet specifications of original tender document of record held at the Town of Grand Falls-Windsor Purchasing Office. The Town of

Grand Falls-Windsor reserves the right, at any time, to reject a tender that has been altered from the original tender document issued to all bidders.

18. Bidders should enclose descriptive literature as part of this proposal. Equipment is to be completely serviced by the dealer before unit is delivered, subject to inspection and approval by the Town.
19. It is the individual bidder's responsibility to ensure that all addenda/um have been received and included in the bid price. If applicable, please note addenda/um on tender summary page.
20. The bidder must be a manufacturer, a factory branch, or an agent engaged in the business of selling, dealing in and servicing the equipment bid upon, and must maintain a reasonable stock of parts. An adequate supply of parts must be available within a twenty-four hour period.
21. With the consent of the successful bidder, the Town of Grand Falls-Windsor and/or other municipalities reserves the right to purchase subsequent units of equipment under this tender at the price quoted (or lower) at any time during the calendar year following the official closing date of the tender. Any subsequent item purchased in this manner must meet eighty-five percent (minimum) of the specifications required in the original tender.
22. Please state all warranties pertinent to this equipment and its component parts.

SPECIFICATIONS FOR ONE NEW 2017/2018 FOUR-WHEEL DRIVE LOADER

Tenders are invited for the supply of one new (not used) four-wheel drive loader.

Engine

1. Must be six cylinder, turbocharged, charge air cooled diesel engine and shall be designed and built by the manufacturer.

Yes _____ No _____

2. Engine shall be certified to EPA Tier 3 emissions.

Yes _____ No _____

3. Engine shall have a wet-sleeve cylinder liner designed for improved cylinder cooling over dry sleeve and cast-in-bore design for improved cylinder and piston ring durability.

Yes _____ No _____

4. Engine displacement shall be no less than 6.8 litres (414 cu. in.).

Yes _____ No _____

5. Engine net peak power shall be no less than 167 hp (125 kW) @ 1,900 rpm.

Yes _____ No _____

6. Engine shall develop at least a 31% torque rise and should have at least 496 lb. ft. @ 1,600 rpm net peak torque.

Yes _____ No _____

7. Fuel system shall be high pressure, common rail.

Yes _____ No _____

8. Daily check points shall be accessible from one side of the engine and shall be done from ground level.

Yes _____ No _____

9. Under hood engine air cleaner shall be dry type, dual element, with a restriction sensor and in-cab restriction warning light.

Yes _____ No _____

10. The loader shall have under hood pre-screened air intake to minimize plugging.

Yes _____ No _____

11. Access to engine shall be open from both sides with side opening, full access doors.

Yes _____ No _____

12. The loader shall be equipped with a heavy-duty steel fuel tank guard.

Yes _____ No _____

13. Service interval for the engine oil and filter shall be 500 hours.

Yes _____ No _____

14. The unit shall have an auto-idle, auto-shutdown feature for the engine as standard equipment.

Yes _____ No _____

15. The electrical system shall be 24 volt with 100 amp alternator.

Yes _____

No _____

Cooling

1. The unit shall have a proportionally controlled, hydraulically driven, 90 degree swing out fan as standard equipment.

Yes _____

No _____

2. The unit shall have two-side access to all coolers.

Yes _____

No _____

3. Air intake shall be pre-screened (3 mm perforations) for each cooling component.

Yes _____

No _____

4. Cooling system shall be isolated from the engine compartment.

Yes _____

No _____

5. Unit shall have a coolant recovery tank provided.

Yes _____

No _____

6. Unit shall have a fan guard.

Yes _____

No _____

7. Fluid levels shall be easily checked by sight gauges or overflow tank.

Yes _____

No _____

Power Train

1. Unit shall have a torque converter, power shift transmission – 4 forward, 3 reverse gears.

Yes _____ No _____

2. The transmission shall be electronically controlled, adaptive, with load and speed dependent shift modulation.

Yes _____ No _____

3. Shift modes shall be manual, auto to 1st or 2nd, kick-down or kick-up/down.

Yes _____ No _____

4. Service interval for the transmission oil filter shall be 2,000 hours.

Yes _____ No _____

5. Unit shall have steering column or joystick mounted F-N-R and gear select lever, kick-down button on hydraulic lever. Unit shall also have quick shift feature that allows pushbutton gear changes, one gear at a time.

Yes _____ No _____

6. Sight gauge showing transmission fluid shall be at ground level.

Yes _____ No _____

7. Transmission filter restriction shall be displayed in the cab.

Yes _____ No _____

8. Transmission shall be able to reach minimum 20 mph in 4th gear and 14 mph in 3rd gear with 20.5R25 tires.

Yes _____

No _____

Axles/Brakes

1. The final drives shall be heavy-duty inboard planetary.

Yes _____

No _____

2. The loader shall have two brake pedals with an activation switch to allow left brake pedal to switch between a brake neutralizer or brake only function.

Yes _____

No _____

3. The service brake shall be hydraulically actuated, inboard, sun shaft mounted, pressure oil cooled, self-adjusting, single disc, and sealed from water, mud, and dust contamination.

Yes _____

No _____

4. The parking brake shall be automatic, spring applied, hydraulically released, oil cooled, multi-disc, and sealed from water, mud, and dust contamination.

Yes _____

No _____

5. The rear axle shall not have less than 24 degree total oscillation, stop to stop, when equipped with 20.5R25 tires.

Yes _____

No _____

6. The dipstick port and housing fill shall be at the top of the axle.

Yes _____

No _____

7. The front axle shall be hydraulically actuated, disc clutch style, locking differential for maximum traction when required but with less tire wear than limited slip or no-spin differentials.

Yes _____ No _____

8. The loader shall have front and rear axles with hydraulic locking differentials.

Yes _____ No _____

9. The loader shall have rear axle disconnect.

Yes _____ No _____

Hydraulic System

1. Hydraulic filter shall be in the hydraulic tank with service interval of 4,000 hours.

Yes _____ No _____

2. Hydraulic fluid shall have a rated life of 4,000 hours.

Yes _____ No _____

3. The hydraulic system shall be pressure-compensating load-sensing for reduced fuel consumption and better fluid heating compared to open center hydraulic systems.

Yes _____ No _____

4. Hydraulic reservoir capacity shall be no less than 24 gallons for extended hydraulic fluid intervals and cooler system temperature.

Yes _____ No _____

5. Unit shall be provided with an automatic return-to-dig-to-level attachment.
Yes _____ No _____
6. Unit shall have in-cab adjustable automatic boom height kick-out control.
Yes _____ No _____
7. Unit shall be provided with in-cab adjustable automatic boom return-to-carry control.
Yes _____ No _____
8. Unit shall be equipped with either single-lever joystick or two-lever fingertip pilot-operated controls.
Yes _____ No _____
9. A sight gauge shall be provided for checking hydraulic reservoir fluid.
Yes _____ No _____
10. Hydraulic pump shall be variable-displacement, axial-piston pump: closed-center, pressure-compensating system.
Yes _____ No _____
11. Loader steering articulation angle shall be no less than 80 degrees, 40 degrees in each direction.
Yes _____ No _____

Electrical

1. Two batteries shall be included, 24 volt, 950 CCA, with a rated reserve of no less than 25 amps for 190-min at 80 F.

Yes _____ No _____

2. Unit shall have a solid-state electrical power distribution system using circuit board technology and solid-state switches.

Yes _____ No _____

3. Unit shall have a keyless starting system with multiple security modes.

Yes _____ No _____

4. Unit shall be provided with a master electrical disconnect switch.

Yes _____ No _____

5. Cab shall be pre-wired for a rotating beacon/strobe light.

Yes _____ No _____

6. The in-cab switch module shall be sealed to keep out dirt, dust, and airborne debris.

Yes _____ No _____

7. Unit shall be equipped with driving lights with guards, turn signals and flashers, and stop and tail lights. The tail lights shall be LED type mounted high up in the rear grille for protection from damage and better sight visibility and shall have a normal service life equal to the machine.

Yes _____ No _____

8. Unit shall be equipped with analog display for engine coolant temperature, transmission oil temperature, hydraulic oil temperature, and engine oil pressure.

Yes _____ No _____

9. Unit shall have digital readout for engine rpm, odometer, transmission gear/direction indicator, speedometer, hour meter, fuel level, and outside temperature.

Yes _____ No _____

10. Unit shall have operator warning lights for check engine, engine oil pressure, engine air restriction, battery voltage, transmission filter restriction, brake pressure, hydraulic oil filter, transmission fault, and hydraulic oil temperature.

Yes _____ No _____

Operator Station

1. Unit shall be equipped with canopy with ROPS/FOPS protection and be multiplane isolation mounted for noise/vibration reduction.

Yes _____ No _____

2. 3" retractable seat belt shall be provided.

Yes _____ No _____

3. Steering wheel shall be tiltable.

Yes _____ No _____

4. Shall have 3-point contact at all times at the front and rear of the loader and around the roofline.

Yes _____ No _____

5. The cab shall have continuous and unobstructed glass from roofline to floor for visibility in tight quarters.

Yes _____ No _____

6. A seat backrest extension shall be standard.

Yes _____ No _____

7. The cab shall have two cup holders, personal cooler holder/storage, compartment for operator's manual, and rubber floor mat.

Yes _____ No _____

General Specifications

1. Unit shall be equipped with 20.5R25, L-3 winter tires with multi-piece rims.

Yes _____ No _____

2. Front and rear tires shall be covered with fenders.

Yes _____ No _____

3. The counterweight shall be built in.

Yes _____ No _____

4. Unit shall be provided with a hitch with locking pin.

Yes _____ No _____

5. Unit shall have an articulation locking bar.

Yes _____ No _____

6. Unit shall have vandal protection with lockable engine enclosures, right counterweight storage, battery box, and filler access for radiator/fuel/hydraulic/transmission.

Yes _____ No _____

7. Unit shall be provided with a loader boom service locking bar.

Yes _____ No _____

8. Unit shall have reinforced articulation joints with double tapered roller bearings.

Yes _____ No _____

9. Fuel tank capacity shall be no less than 85 gallons (322 litres).

Yes _____ No _____

10. Operating weight with standard equipment, pin-on wide GP 3 cu yd (2.3m³) bucket, 20.5R25 tires, ROPS cab, 175 lb. operator, and full fuel tank shall be no less than 28,000 lb.

Yes _____ No _____

Snow Clearing Equipment Specifications

Front Plow

1. Shall be a hydraulic reversible 12’ plow (Craig 6975H/DPF) or equivalent equipped with carbide tipped cutting edge, hydraulic quick coupler, and accompanying hydraulics to match the Town of Grand Falls-Windsor’s existing attachments.

Yes _____

No _____

Loader Wing Assembly

The loader wing assembly shall contain the following major components:

1. Plow harness complete with hydraulic front post.

Yes _____

No _____

2. Snow wing.

Yes _____

No _____

3. Rear post mounting bracket.

Yes _____

No _____

4. All hydraulic rear lift group (3-point connection).

Yes _____

No _____

5. Hydraulic kit four section valve. No four spools required, only if using HTS.

Yes _____

No _____

6. Documentation

Yes _____

No _____

Details

1. Plow harness shall be of formed plate design with two vertical rectangular masts to accept lift chains.

Yes _____

No _____

2. Plow harness shall be equipped with a female coupler system or direct pin-on to accept loader linkage.

Yes _____

No _____

3. Front of plow harness shall consist of four $\frac{3}{4}$ " thick plow mounting lugs. Each lug shall have four holes - two holes are to be $1\frac{1}{4}$ " and the remaining two are to be $1\frac{1}{2}$ ". These lugs shall be spaced accordingly to accept plow push poles or down pressure plates.

Yes _____

No _____

4. Plow harness shall be equipped with a fully hydraulic front post – no cables or pulleys will be accepted.

Yes _____

No _____

5. Front post shall work in conjunction with snow wing and rear lift group to allow 48" of level shelving/benching height.

Yes _____

No _____

6. Front post shall be of regular design with track to accept a 12" free floating slide system.

Yes _____ No _____

7. Front post slides are to be actuated with a 2 1/2" bore x 1 1/2" shaft cylinder contained within the front post rectangular tube.

Yes _____ No _____

Snow Wing

1. Moldboard thickness of snow wing shall be 3/16" thick minimum rolled to a smooth continuous curve with carbide tipped cutting edge.

Yes _____ No _____

2. Snow wing dimensions shall be as follows:

Overall length – 10' 6"

Yes _____ No _____

Intake height – 27"

Yes _____ No _____

Discharge height – 36"

Yes _____ No _____

3. Snow wing shall be fitted with a 5/8" x 8" x 120" cutting edge. Material shall be AISI C-1084 or equivalent.

Yes _____ No _____

4. Snow wing design shall incorporate a box section construction.

Yes _____ No _____

5. Rear wing bracket shall be quick attach design to fasten securely to rear lift group.

Yes _____ No _____

6. Front of snow wing shall be fastened to front post with a 1 ½" bolt.

Yes _____ No _____

7. A safety chain shall be securely fastened from snow wing to front post slide.

Yes _____ No _____

Rear Post Mounting Bracket

1. Rear post mounting bracket shall be a boxed section construction securely mounted to front frame of unit behind front right wheel.

Yes _____ No _____

2. Rear post mounting bracket shall allow full articulation of the loader left and right.

Yes _____ No _____

3. Rear post mounting bracket shall have a universal bracket incorporated into the construction. The universal bracket shall accept rear lift group.

Yes _____ No _____

Rear Lift Group

1. Rear lift group shall consist of the following:

Push pole (inner and outer)

Yes _____ No _____

Rear lift cylinder

Yes _____ No _____

Extension cylinder

Yes _____ No _____

Brace kit

Yes _____ No _____

2. Rear lift group shall be fully hydraulic – cable operation will not be accepted.

Yes _____ No _____

3. The snow wing end of the push pole shall extend and retract 21 ½” hydraulically. The opposite end of the push pole shall have a shock absorbing spring.

Yes _____ No _____

4. All push pole lugs that attach to cylinders must have Torrington self-aligning bushings press fitted into lugs.

Yes _____ No _____

5. Extension cylinder shall have a 3” bore with a 2” shaft (minimum).

Yes _____ No _____

6. Rear lift cylinder shall have a 4” bore with a 2” shaft (minimum).

Yes _____ No _____

7. Rear lift group shall be equipped with a brace kit to stabilize rear lift group when snow wing is not attached.

Yes _____ No _____

8. Rear lift group shall be a 3-point design – a parallel arm design (4-point) will not be accepted.

Yes _____ No _____

9. Rear lift group shall be equipped with a safety chain to be used when rear lift group is in the raised position.

Yes _____ No _____

Hydraulic Kit

1. Hydraulic kit shall consist of a four section hydraulic valve to operate all components of the loader wing assembly. One section shall be four position float to actuate rear lift cylinder. One section shall have work port relief/anti-cavitation check-work port relief set at 900 psi for actuation of extension cylinder. The remaining sections shall be three position for front post cylinder and plow/hydraulic trip swivel (if applicable).

Yes _____ No _____

Please specify quantity of work sections on loader: _____

Please specify quantity of work sections for loader wing assembly: _____

2. Hydraulic kit shall be complete with all fittings, hoses, and installation drawings/pictures.

Yes _____ No _____

3. Hydraulic kit shall consist of a single lever electric joystick and valve mounting plate. The joystick shall be conveniently placed over the existing third spool lever for easy access from driver's seat.

Yes _____ No _____

4. Hydraulic hoses from wing shall have quick connects with male ends permanently mounted to unit.

Yes _____ No _____

5. Hydraulic hose bank shall be easily accessible on outside of chassis.

Yes _____ No _____

Documentation

1. The loader wing assembly shall have a complete set of parts drawings.

Yes _____ No _____

2. The loader wing assembly shall be supplied with manufacturer's warranty.

Yes _____ No _____

Please state terms: _____

3. The loader wing assembly shall be supplied with installation drawings/pictures for installation of the loader wing assembly (if required).

Yes _____ No _____

4. The loader wing assembly shall have all necessary safety and operational decals.

Yes _____ No _____

Warranty

1. Unit must have a minimum of two full years or 4,000 hours manufacturer's warranty for all machine parts and labour. All warranty work is to be done at supplier's cost at supplier's shop within twenty km of our Public Works Depot.

Yes _____ No _____

Please indicate site:

2. Copy of this warranty is to be included with bid.

Yes _____ No _____

3. Bidders must maintain full service facility (two technician minimum) and parts stockroom within twenty km of our Public Works Depot.

Yes _____ No _____

4. As this unit is an integral part of our daily operations, bidders must be able to supply mechanic service immediately if needed.

Yes _____ No _____

Miscellaneous

1. Must supply two complete sets (one hard copy, one on disc) of the following: operator’s manual, maintenance manual with scheduled program, repair manuals including electronic control diagnostics, electrical and hydraulic diagrams, and parts manual.

Yes _____ No _____

2. Must supply two parts manuals (books or disc).

Yes _____ No _____

3. Unit shall be equipped with appropriate fire extinguisher.

Yes _____ No _____

4. Unit shall be equipped with one complete 20.5R25 spare tire and rim.

Yes _____ No _____

5. Unit to be equipped with fitted tool box.

Yes _____ No _____

6. The successful bidder must supply the following:

Engine:	Make	_____
	Size	_____
	Horsepower	_____
	Serial #	_____
	Model #	_____

Alternator: Make _____

Rating _____

Model # _____

Part # _____

Starter: Make _____

Model # _____

Part # _____

Battery: Make _____

Size _____

Part # _____

Tires: Make _____

Size _____

Transmission: Make _____

Size _____

Part # _____

Serial # _____

TENDER SUMMARY
ONE NEW 2017/2018 FOUR-WHEEL DRIVE LOADER - #17040503

Price for one new 2017/2018 four-wheel drive loader \$ _____

15% HST \$ _____

Total Tender Price \$ _____

We hereby acknowledge receipt of the following addenda: (if applicable)

Addendum No. _____

Addendum No. _____

Addendum No. _____

Addendum No. _____

If the supplier fails to acknowledge receipt of addenda in the area above, the tender will be considered incomplete.

After having read the terms, conditions, and specifications of this tender, I/we (Name of Firm)

guarantee delivery of this new equipment to the Town of Grand Falls-Windsor not later than

SIGNING OF TENDER BID

Company Name: _____

Address: _____

Tender results to be emailed to: _____

Witness Signature: _____

Authorized Signature: _____

Date: _____

Date: _____

Signed, Sealed, and Delivered

The undersigned hereby agree to furnish the equipment listed below in accordance with the specifications on file in the Purchasing Office and which are attached hereto:

Manufacturer: _____

Model No: _____

Delivery Date: _____