

FORM A: BID
(See B8)

1. Contract Title SUPPLY & DELIVERY OF FRONT END WHEEL LOADERS

2. Bidder

Name of Bidder

Usual Business Name of Bidder as it appears on Invoice (if different from above)

Street

City

Province

Postal Code

(Mailing address if different)

Email Address of Bidder

Facsimile Number

Street or P.O. Box

City

Province

Postal Code

(Choose one)

GST Registration Number (if applicable)

The Bidder is:

a sole proprietor

a partnership

a corporation

carrying on business under the above name.

3. Contact Person

The Bidder hereby authorizes the following contact person to represent the Bidder for purposes of the Bid.

Contact Person

Title

Telephone Number

Facsimile Number

Email Address

4. Definitions

All capitalized terms used in the Contract shall have the meanings ascribed to them in the General Conditions and D3.

5. Offer The Bidder hereby offers to perform the Work in accordance with the Contract for the price(s), in Canadian funds, set out on Form B: Prices, appended hereto.

6. Commencement of the Work The Bidder agrees that no Work shall commence until he/she is in receipt of a notice of award from the Award Authority authorizing the commencement of the Work.

7. Contract The Bidder agrees that the Bid Opportunity in its entirety shall be deemed to be incorporated in and to form a part of this offer notwithstanding that not all parts thereof are necessarily attached to or accompany this Bid.

8. Addenda The Bidder certifies that the following addenda have been received and agrees that they shall be deemed to form a part of the Contract:

No.	Dated
_____	_____
_____	_____
_____	_____

9. Time This offer shall be open for acceptance, binding and irrevocable for a period of sixty (60) Calendar Days following the Submission Deadline.

10. Signatures The Bidder or the Bidder's authorized official or officials have signed this _____ day of _____, 20_____.

Signature of Bidder or
Bidder's Authorized Official or Officials

(Print here name and official capacity of individual whose signature appears above)

(Print here name and official capacity of individual whose signature appears above)

FORM B: PRICES
(See B9)

SUPPLY & DELIVERY OF FRONT END WHEEL LOADERS

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	QUANTITY	UNIT PRICE
1.	(4 yd.) Front End Wheel Loader	13027	(Each)	(1)	
2.	(3 yd.) Front End Wheel Loader	13028	(Each)	(1)	

Name of Bidder

FORM N: DETAILED SPECIFICATIONS 13027

1.0 **DESCRIPTION OF EQUIPMENT-**

- 1.1 These specifications describe **Front End Wheel Loaders** and other equipment and features as specified herein.
- 1.2 The **Front End Wheel Loaders** shall be new 2013 or newer model year.
- 1.3 The **Front End Wheel Loaders** and all other items/components shall be the manufacturer's latest model. The equipment shall be furnished complete and ready for operation. Any parts or accessories not specifically mentioned, but which are required to complete and place the equipment and associated attachments in successful operation shall be furnished as though specifically mentioned in these specifications. The equipment and associated and attachments, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.

2.0 **OTHER SPECIFICATIONS AND STANDARDS-**

- 2.1 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 2.2 The **Front End Wheel Loaders and attachments** shall comply with the applicable regulations:
- Highway Traffic Act = <http://web2.gov.mb.ca/laws/statutes/ccsm/h060e.pHP>
- Manitoba Motor Vehicle Act = <http://www.tc.gc.ca/acts-regulations/GENERAL/M/mvsa/menu.htm>
- Canadian Motor Vehicle Safety Standards, CMVSS = <http://www.gnb.ca/0062/regs/83-163.htm>
- Transport Canada = <http://laws.justice.gc.ca/en/notice/index.html?redirect=%2Fen%2FM-10.01%2F250448.html>
- National Safety Mark, NSM = <http://www.tc.gc.ca/actsregulations/GENERAL/M/mvsa/regulations/mvsrg/001/mvsr3-5.html>
- Manitoba/Winnipeg Safety and Health Act, Parts 12, 22 = <http://web2.gov.mb.ca/laws/statutes/ccsm/w210e.pHP> and <http://www.gov.mb.ca/labour/safety/>
- Canadian Standards Association, CSA = <http://www.csa.ca/about/Default.asp?language=english>
- Under Writers of Canada, U/L = <http://www.ulc.ca/>
- Society of Automotive Engineers, SAE = http://en.wikipedia.org/wiki/Society_of_Automotive_Engineers
- City of Winnipeg Lighting Visibility Standard= <http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf>.
- 2.3 It will be the responsibility of the Bidder to inform the City of any deficiencies in these specifications, for under this Contract the Contractor shall be held responsible for the design, performance, reliability and satisfactory operational function of the units.

3.0 **SERVICE FACILITY-**

- 3.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility located within 10 km of the boundaries of the City of Winnipeg. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered. Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

4.0 **REFERENCES-**

- 4.1 Provide five (5) Canadian references where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

5.0 **MAKE & MODEL-**

- 5.1 **State** make and model of the equipment bid- _____

6.0 **INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS-**

- 6.1 Each bid will be evaluated based on adherence to all terms, conditions and requirements outlined in the Bid Opportunity package.
- 6.2 All items in these specifications must be answered indicating compliance or non-compliance. **BIDDERS SHALL STATE "YES" FOR COMPLIANCE OR STATE DEVIATION**, or give reply where requested to do so. Deviations shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.
- 6.3 **EACH BIDDER IS REQUIRED TO FILL IN EVERY BLANK. FAILURE TO DO SO MAY BE USED AS A BASIS FOR REJECTION OF BID**

7.0 **PERFORMANCE RELIABILITY-**

- 7.1 The responsibility for the design of the **Front End Wheel Loaders and associated attachments**, its performance and reliability shall rest upon the Contractor.
- 7.2 The term "repeated failures" as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the vehicle inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, subassembly, or assembly. Minor items or ordinary service adjustments are not included, or considered under the scope of "repeated failures", as well as other factors, such as operational damage due to accidents, misuse or lack of proper maintenance, service and lubrication attention by not following the manufacturer's preventative maintenance schedule.
- 7.3 Where the **Front End Wheel Loaders and associated attachments** develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.
- 7.4 **The equipment shall be capable of consistent top performance in City of Winnipeg Environment. Note: The City of Winnipeg has four seasons with ambient temperatures ranging from approximately 90°F (32°C) to -40°F (-40°C)**

8.0 FUEL-

8.1 Where applicable, all equipment must be fully fuelled upon delivery (no exceptions).

9.0 QUALIFICATIONS OF MANUFACTURER & CONTRACTOR-

9.1 The manufacturer of the **Front End Wheel Loaders and associated attachments** shall have five (5) years continuous experience manufacturing **and associated attachments**.

9.2 The manufacturer shall have in effect a documented quality control program ensuring that the quality of materials and workmanship, including welding, conforms to the best standards and engineering practice of the industry.

10.0 NATIONAL SAFETY MARK- (IF APPLICABLE)

10.1 In Canada, modification to new vehicles can only be done at facilities that are recognized by Transport Canada. All of these facilities must have a National Safety Mark from Transport Canada. Transport Canada National Safety Mark is a label that indicates that the modifications are compliant with all current Canadian Motor Vehicle Safety Standards (CMVSS)

STATE (NSM) # - _____

11.0 MANITOBA SAFETY INSPECTION- (IF APPLICABLE)

11.1 The vehicles shall be complete with a current Manitoba Safety Sticker affixed to the driver's side vent window.

12.0 SPECIFICATIONS-

WEIGHTS-

12.1 Operating weight – 42,000- 43,000 lbs. _____

12.2 Overall width over tires, less bucket, **state-** _____

12.3 Overall height (to top of cab, not including warning beacons), **state-** _____

12.4 Ground clearance, **state-** _____

12.5 Overall length, bucket on ground, **state-** _____

ENGINE-

12.6 Engine **Type** –Must be current Canadian Emission EPA compliances. Diesel, liquid cooled and turbo charged. Engines shall be warranted to use biodiesel at a B10 blend level (10% biodiesel to 90% ultra low sulphur diesel), where the biodiesel will meet product specification ASTM D 6751 to ensure fuel quality. Engine must be **Tier 4 Interim** Net Horsepower at 1700 RPM 149kW-175kW (200hp-235 hp) Net Peak Torque 1015 Nm (749lb-ft), Fuel system electronically controlled, with reversible fan on the fly, 4 braid hydraulic hoses, quick access to radiator. _____

12.7 Fuel shut-off - electric solenoid type. _____

12.8 Fuel filter - spin-on type. _____

12.9 Fuel system water separator - required. _____

- 12.10 Oil filter - full flow, spin-on type. _____
- 12.11 Air cleaner - dry two-stage with restriction indicator and pre-cleaner. _____
- 12.12 Exhaust vertical pipe complete with muffler vertical discharge with bend and 40° cut-off. _____
- 12.13 Coolant Ethylene glycol based, protected to -35°F (-37°C). _____
- 12.14 Extended lifelong coolant. _____
- 12.15 Engine block heater - immersion type 1,000 watts, 120V with covered recessed male plug. _____
- 12.16 Automatic De-rating or equivalent for exceeding system parameters - Shall provide visual and audible warning of principal machine systems including engine oil pressure and coolant temperature. Shall provide the ability for the operator to move the machine to a safe location where the machine will not pose a threat to the operator or the public. _____
- 12.17 Automatic De-rating or equivalent for exceeding system parameters - low oil pressure and high water temperature, low fuel pressure shutdown. OEM approved only. _____
- 12.18 Programmable anti-idling system or equivalent required for carbon emission Reduction/fuel consumptions. _____

DRIVE TRAIN-

- 12.19 Front Axle- limited slip or hydraulic locking differential. **State-** _____
- 12.20 Shall have the capability of allowing the operator to select either automatic or manual shifting. _____
- 12.21 Shall have the capability of full power shift with torque converter. _____
- 12.22 Shift control - single lever. _____
- 12.23 Forward gears, **state number of speeds-** _____
- 12.24 Reverse gears, **state number of speeds-** _____
- 12.25 Rear Axle- limited slip or hydraulic locking differential, **state-** _____
- 12.26 Semi-floating or oscillating rear axle. _____
- 12.27 Differential drain plugs - magnetic type. _____

BRAKES, STEERING & TIRES-

- 12.28 Service brakes - 4-wheel, hydraulic operated wet disk type. _____
- 12.29 Parking Brake - Spring applied and hydraulically released _____
- 12.30 Two Control Pedals _____
- 12.31 Accelerator pedal _____
- 12.32 Dual purpose pedal - transmission disconnect with braking _____

12.33 Steering - articulated with 35° articulation left and right of center, **state-** _____

12.34 Articulation center pin components, **state type-** _____

12.35 Operational Steering and Articulating Requirements:

a) Steering and Articulation of the machine must be smooth, controlled and continuous, fully raised and loaded at engine idle speed. _____

b) Steering wheel movement must be smooth, controlled and continuous fully raised and loaded engine speed. There shall be no erratic, pulsating or jerking movement of the steering wheel. _____

c) Steering equipped with neutralizer valves or equivalent to prevent frame to frame contact at full articulation _____

12.36 Steering frame lock - required. _____

12.37 Tires- **Tires appropriate for use on Landfill thicker hard cut resistant rubber**

a) 725/70-25 16 Ply L-4T _____

b) Tires shall have a sure grip design. _____

c) **State** make and model being bid- _____

12.38 Rims

a) 3-piece design. _____

FRONT END LOADER-

12.39 Breakout force – 27000-30,500 lbs. _____

12.40 Tipping Loads:

a) Static straight – 21,000 lbs. _____

b) Tipping load (40 deg full turn) 20,934 lbs. _____

c) Tipping Load Straight 11,125 kg (24527 lbs) _____

d) Dump clearance 45 deg full height 3.33m (10ft 11 in.) _____

e) Dumping height- shall be 3.68 metre (12 ft.) without roll-out Bucket attachment for ASP bunkers _____

12.41 Hinge pin height, fully raised – 13 ft. _____

12.42 Loader Controls:

a) Single or double function lever that provides lift and curl of the bucket. _____

b) Bucket leveller - automatic with position indicator. _____

c) Automatic “Return to carry” option. _____

d) Boom height control (kick-out) - automatic, adjustable. _____

- 12.43 Ride control system (accumulator) required to attenuate machine bounce during travel. Shall be OEM system. (Aftermarket system unacceptable) _____
- 12.44 The ride control system shall be of the type that automatically engages or disengages, dependent on the machines ground speed. _____

- 12.45 Loader bucket: **(required per unit)**
 - (1) - General Purpose 3.1 M3 (4.0 Cu Yd.) WBM Quick Coupler Hook On Bucket with Bolt on cutting edge . _____

 - (1) - Rollout bucket 3.1 M3 (4.0 Cu Yd.) WBM Quick Coupler Hook On Roll out Bucket with Bolt on edge. Roll out bucket shall be 8.5 ft. (102 in. wide as the extra dump height for a 8.5 ft. wide rollout bucket is 20 inches. _____

- 12.46 Bucket width to exceed machine width at tires. _____

- 12.47 Cutting edge - bolt-on, heat treated steel, 1, 2 or 3 piece reversible blade acceptable, full width of bucket x 12 inch deep, Bucyrus or equal, state make and model being bid. State make and model of blade supplied- _____

- 12.48 Bottom wear plates - required to prevent bucket heel from rubbing on ground with bolt-on cutting edge in place. _____

- 12.49 Side wear plates - bolt-on, replaceable, Bucyrus or equal, state make and model being bid- _____

- 12.50 OEM approved Loader safety prop bar - required. _____

- 12.51 Hydraulic fluid level indicator - required. _____

- 12.52 Auxiliary hydraulics for attachment growth. Loader must have a 3rd function valve. _____

- OPERATOR COMPARTMENT-**

- 12.53 Type -ROPS roll over protective structure complete with pressurized cab. OSHA certified or equal. _____

- 12.54 Insulation - required for sound suppression, rated as per 13.21 _____

- 12.55 Seat – Cushioned, adjustable high back bucket type with cloth upholstery, air suspension, lumbar support, armrests and retractable seat belt. _____

- 12.56 Windows - tinted safety glass with appropriate markings for all panes. _____

- 12.57 Sun visor - fold-down type. _____

- 12.58 Door - lockable with keyed lock. Door/window shall latch in fully opened position. _____

- 12.59 Exterior rear view mirrors - one (1) each side. Heated, remote electric adjusting _____

- 12.60 Interior rear view mirror. _____

- 12.61 Windshield wipers – Winter type, two speed, front and rear. _____

- 12.62 Windshield washers - front and rear. _____

- 12.63 Heater/defroster/pressurizer - heavy duty, hot water type with multi-speed fan and filtered air intake. _____

- 12.64 Must have interior cab heater capable of sustaining cab temperature to 20°C at an outside ambient air temperature of - 40°C. _____
- 12.65 Defroster - capable of keeping all windows clear at – 40°C. _____
- 12.66 Air conditioning - required. _____
- 12.67 Radio - AM/FM/CD. _____
- 12.68 Steering wheel - tilt type. _____
- 12.69 Rubber floor covering - required throughout. _____
- 12.70 OEM installed rear view camera _____

INSTRUMENTATION-

- 12.71 Shall be as follows:
 - a) Engine coolant temperature gauge and alarm. _____
 - b) Engine oil pressure gauge and alarm _____
 - c) Transmission oil temperature gauge _____
 - d) Hour-meter- required. Non-resettable _____
 - e) Ammeter, voltmeter _____
 - f) Fuel gauge _____
 - g) Tachometer _____
- 12.72 Gauges shall be mounted in the control panel (dashboard), or in a location that is easily observed by the operator from the seat. _____
- 12.73 Noise level, interior - 85 dB (A), measured in accordance with SAE J336 _____
- 12.74 Rear sun shade required _____
- 12.75 (10) lbs ABC Type Fire Extinguisher, First Aid Kit, Flare Kit mounted as per Manufacture’s OEM recommendation _____
- 12.76 Steps and handrails to provide safe cleaning of front windshield _____
- 12.77 Left and right cab doors preferred, complete with a full length ladder to provide safe exit if required. _____
- 12.78 Self-cleaning steps for safe entry and exit _____
- 12.79 Back-up alarm required _____
- 12.80 Back up camera with guarded protection required _____
- 12.81 Front Window Cage _____
- 12.82 Master isolation switch -lock all _____

ELECTRICAL & LIGHTING-

- 12.83 Type - 24 volt, negative ground electrical system. _____
- 12.84 Electric starter - required. _____
- 12.85 Electric starter thermally and over spin protected. _____
- 12.86 Starter switch key type or keyless type with security code _____
- 12.87 Three (3) sets of keys required. _____
- 12.88 Batteries - two (2), maintenance free 950-1100 CCA capacities each. _____
- 12.89 Battery disconnect switch - required. _____
 - a) Battery disconnect switch, protected from the elements. _____
- 12.90 Alternator – 60-80 amps _____
- 12.91 LED, Combination stop and tail lights - two (2), protected from damage. _____
- 12.92 LED, Signal lights with warning flashers - two (2), visible front and rear. _____
- 12.93 Headlights - two (2), mounted immediately below cab roof. _____

WORK LIGHTS-

- 12.94 Heavy Duty work lights required. _____
- 12.95 Front - two (2), adjustable, mounted near top pivot of loader lift arms. _____
- 12.95 Rear - two (2). Must be fully adjustable. _____
- 12.96 Independent on/off switch for each pair of work lights.(front and rear)
Dash mounted, wired through ignition. _____
- 12.97 Full set of Manitoba Highways provincially approved highway lights
(wigwag lights). _____
- 12.98 Shall be independently controlled through a separate switch. _____
- 12.99 Highway lights not to extend past cab. _____
- 12.100 Cab interior (dome) light. _____
- 12.101 Horn. _____
- 12.102 Warning Beacons: **(Class I only)**
 - a) Blue/Amber located on all four corners of the cab roof flush mounted. _____
 - b) Both Blue and Amber lights to be independently switched. _____
- 12.103 Complete with dash mounted on/off switch wired through ignition. _____
- 12.104 (97 dba) Back-up alarm - mounted at rear of unit, located to be protected
from damage. _____

12.105 Radio installation provision - 12 volt, 20-amp circuit available at a spare circuit breaker, suitable for installation of a 2-way mobile radio. _____

12.106 Radio to be wired on an independent circuit. _____

WIRING-

12.107 All electrical functions (except warning flashers, and 2-way radio circuit) shall be wired through the ignition. _____

12.108 Wiring for all locally installed equipment shall be colour coded, loomed and properly secured. _____

12.109 All joining of wires and electrical connectors shall be soldered and sealed with heat shrink tubing or with sealed weather tight connectors _____

12.110 No splices shall be made into OEM or after-market wiring harnesses. _____

12.111 All additional circuits are to be run from a power distribution box. _____

12.112 All fuses, relay's and circuit breakers to be made easily accessible. _____

MISCELLANEOUS-

12.113 Fenders – Full width, required front and rear with anti-skid tape on step surfaces where applicable. _____

12.114 Engine side covers - hinged (if lockable, all locks must keyed alike). _____

12.115 Drawbar hitch with pin. _____

12.116 Access ladder with non-skid step surfaces. _____

12.117 Grab handles - supplied as required at all appropriate locations. _____

12.118 Toolbox - lockable _____

12.119 Slow moving vehicle emblem. _____

12.120 Groeneveld Twin Automatic Greasing System _____

12.121 Reservoir capacity – The reservoir capacity shall be sufficient as to allow the machine to run for 250 hours before being refilled _____

12.122 Welco Beales Quick Coupler (**no substitutes**) required for attachment(s), _____

12.123 OEM Anti-theft security safety system required _____

12.124 Oil sampling valves for engine, transmission and hydraulic system _____

12.125 Electric fuel priming pump to eliminate fuel contamination _____

12.126 Back-up Camera and guarded _____

12.127 Back-up alarm required _____

FUEL CONSUPTIONS-

12.128 The loaders will be used in the following manner: (25% truck loading, 40% stock Piling 15% transport, 20% idling) **Bidder to state fuel consumption based on the above percentages.** _____

13.0 WARRANTY-

13.1 All warranty information shall be detailed and include all exclusions. The successful bidder shall provide all published warranty information upon delivery of the equipment. Bidder shall state all warranty information. _____

13.2 Basic Vehicle **State-** _____

13.3 Batteries **State-** _____

13.4 Drive-train **State-** _____

13.5 Cab structure/corrosion **State-** _____

13.6 Frame/cross-members **State-** _____

13.7 Cab paint **State-** _____

13.8 Engine **State-** _____

13.9 Transmission **State-** _____

13.10 Axles, front & rear **State-** _____

13.11 Towing **State-** _____

14.0 TRAINING-

14.1 The Contractor shall be required to provide training (at the Contractor's expense) for the City of Winnipeg maintenance and operating personnel. The training shall be divided into two separate sessions, one for maintenance personnel and one for operating personnel. The training shall be conducted in separate or combined sessions for each group of personnel.

The duration of the sessions shall be as long as required for adequate familiarization and orientation of the equipment to the satisfaction of the Contract Administrator.

The training shall be conducted within two (2) calendar weeks from the date of delivery and shall be coordinated through the Contract Administrator.

The training shall be conducted in Winnipeg at a time and location designated by the Contract Administrator.

Pricing should be based on two (2) business days for maintenance personnel and two (2) business days for operating personnel.

Note: The first payment of the contract on the equipment will not be issued until successful completion of training has been conducted to the satisfaction of the Contract Administrator.

Training Aides:

a) On the type of equipment being offered, **state if CD Rom training aides or on-line training are available-**

What is the recommended minimum training duration for:

Primary unit:

For major attachments (if applicable):

State what other training aids are available (videos, CDs).

For the primary unit:

For major attachments (if applicable):

Training Materials and applicable manuals or on-line training material information must be provided to the Operator Training Branch of Public Works at the earliest possible opportunity, no later than (4) weeks prior to delivery, when supplying vehicles, equipment and related attachments. Send these materials, preferably in both electronic format and hard copy (training videos are to be supplied on either CD or DVD) to: Public Works Department, Human Resources Division Equipment Operator Training Branch

102-1155 Pacific Avenue
Winnipeg, MB
R3E 3P1

Leanne Guertin
Equipment Operator Training Consultant

Cell: 204-451-3793
Contact e-mail: lguertin@winnipeg.ca

15.0 **DELIVERY-**

15.1 **Delivery Point-** The complete unit shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.I.V.S. (if applicable) to the body manufacture. The successful bidder shall be notified by the Contractor Administrator the delivery address prior to issuance of the purchase order.

15.2 **Delivery Time-** Within **(6-8 six to eight calendar weeks)** from the date of official notification of award of contract. Equipment shall be delivered between 8:00 am and 3:00 pm on Business Days.

15.3 **Delivery Contact-** The Contractor shall contact the Contract Administrator prior to delivery of the equipment.

15.4 P.D.I- A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list

16.0 MANUALS-

16.1 Manuals supplied under this contract shall be in English and shall be specifically for the cab & chassis, snow plow, sander/dump box, pre-wetting system and control system supplied. General purpose manuals are not acceptable. The manuals shall cover the complete equipment including all components thereof, CD is preferred where available.

16.2 The following manuals shall be supplied with the units when delivered:

- a) Operator's manual – Two (2) per unit (one operators manual shall be sent to the Equipment Operator Training Branch
- b) Parts and service manuals – one (1) complete sets including preventative maintenance schedules. CDs are preferred.
- c) Detailed wiring schematics – three (3) complete sets, including trouble shooting guide.

FORM N: DETAILED SPECIFICATIONS 13028

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- Transport Canada = <http://laws.justice.gc.ca/en/notice/index.html?redirect=%2Fen%2FM-10.01%2F250448.html>
- National Safety Mark, NSM = <http://www.tc.gc.ca/actsregulations/GENERAL/M/mvsa/regulations/mvsrg/001/mvsr3-5.html>
- Manitoba/Winnipeg Safety and Health Act, Parts 12, 22 = <http://web2.gov.mb.ca/laws/statutes/ccsm/w210e.pHP> and <http://www.gov.mb.ca/labour/safety/>
- Canadian Standards Association, CSA = <http://www.csa.ca/about/Default.asp?language=english>
- Under Writers of Canada, U/L = <http://www.ulc.ca/>
- Society of Automotive Engineers, SAE = http://en.wikipedia.org/wiki/Society_of_Automotive_Engineers
- City of Winnipeg Lighting Visibility Standard= <http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf>.
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8.0 FUEL-

8.1 Where applicable, all equipment must be fully fuelled upon delivery (no exceptions).

9.0 QUALIFICATIONS OF MANUFACTURER & CONTRACTOR-

9.1 The manufacturer of the **Front End Wheel Loaders and associated attachments** shall have five (5) years continuous experience manufacturing **and associated attachments.**

9.2 The manufacturer shall have in effect a documented quality control program ensuring that the quality of materials and workmanship, including welding, conforms to the best standards and engineering practice of the industry.

10.0 NATIONAL SAFETY MARK- (IF APPLICABLE)

10.1 In Canada, modification to new vehicles can only be done at facilities that are recognized by Transport Canada. All of these facilities must have a National Safety Mark from Transport Canada. Transport Canada National Safety Mark is a label that indicates that the modifications are compliant with all current Canadian Motor Vehicle Safety Standards (CMVSS)

STATE (NSM) # - _____

11.0 MANITOBA SAFETY INSPECTION- (IF APPLICABLE)

11.1 The vehicles shall be complete with a current Manitoba Safety Sticker affixed to the driver's side vent window.

12.0 SPECIFICATIONS-

WEIGHT & DIMENSIONS-

12.1 Operating weight – 25,000 - 29,000 lbs. _____

12.2 Overall width over tires, less bucket, **state-** _____

12.3 Overall height (to top of cab, not including warning beacon), **state-** _____

12.4 Ground clearance, **state-** _____

12.5 Overall length, bucket on ground, **state-** _____

ENGINE-

12.6 **Type** –Must be current Canadian Emission EPA compliances. Diesel, liquid cooled and turbo charged. Engines shall be warranted to use biodiesel at a B10 blend level (10% biodiesel to 90% ultra low sulphur diesel), where the biodiesel will meet product specification ASTM D 6751 to ensure fuel quality, **state tier 3 or tier 4-** _____

12.7 Net horsepower as per SAE J1349B – 115hp - 160 hp _____

12.8 Fuel shut-off - electric solenoid type. _____

12.9 Fuel filter - spin-on type. _____

12.10 Fuel system water separator - required. _____

- 12.11 Oil filter - full flow, spin-on type. _____
- 12.12 Air cleaner - dry two-stage with restriction indicator and pre-cleaner. _____
- 12.13 Exhaust vertical pipe complete with muffler vertical discharge with bend and 40° cut-off. _____
- 12.14 Coolant Ethylene glycol based, protected to -35°F (-37°C). _____
- 12.15 Extended lifelong coolant. _____
- 12.16 Engine block heater - immersion type 1,000 watts, with covered recessed male plug. _____
- 12.17 Automatic De-rating or equivalent for exceeding system parameters - Shall provide visual and audible warning of principal machine systems including engine oil pressure and coolant temperature. Shall provide the ability for the operator to move the machine to a safe location where the machine will not pose a threat to the operator or the public. _____
- 12.18 Automatic De-rating or equivalent for exceeding system parameters - low oil pressure and high water temperature, low fuel pressure shutdown. OEM approved only. _____
- 12.19 Programmable anti-idling system or equivalent required for carbon emission Reduction/fuel consumptions. _____

DRIVE TRAIN-

- 12.20 Front Axle- limited slip or hydraulic locking differential. **State-** _____
- 12.21 Shall have the capability of allowing the operator to select either automatic or manual shifting. _____
- 12.22 Shall have the capability of full power shift with torque converter. _____
- 12.23 Shift control - single lever. _____
- 12.24 Forward gears, **state number of speeds-** _____
- 12.25 Reverse gears, **state number of speeds-** _____
- 12.26 Rear Axle- limited slip or hydraulic locking differential, **state-** _____
- 12.27 Semi-floating or oscillating rear axle. _____
- 12.28 Differential drain plugs - magnetic type. _____

BRAKES, STEERING & TIRES-

- 12.29 Service brakes - 4-wheel, hydraulic operated wet disk type. _____
- 12.30 Parking Brake - Spring applied and hydraulically released _____
- 12.31 Two Control Pedals: _____
- 12.32 Accelerator pedal _____
- 12.33 Dual purpose pedal - transmission disconnect with braking _____

12.34 Steering - articulated with 35° articulation left and right of center, **state-** _____

12.35 Articulation center pin components, **state type-** _____

12.36 Operational Steering and Articulating Requirements:

a) Steering and Articulation of the machine must be smooth, controlled and continuous, fully raised and loaded at engine idle speed. _____

b) Steering wheel movement must be smooth, controlled and continuous fully raised and loaded engine speed. There shall be no erratic, pulsating or jerking movement of the steering wheel. _____

c) Steering equipped with neutralizer valves or equivalent to prevent frame to frame contact at full articulation _____

12.37 Steering frame lock - required. _____

12.38 Tires-

a) Bias Ply Rock Tires required _____

b) 20.5 R25 L3, **state-** _____

c) Snow style tread, front and rear. _____

d) Tires shall have a sure grip design. _____

e) Michelin or Bridgestone, **state** make and model being bid- _____

12.39 Rims

a) 3-piece design. _____

FRONT END LOADER-

12.40 Breakout force – 20,000 lbs., **state-** _____

12.41 Tipping Loads:

a) Static straight – 22,000-24,000 lbs _____

b) Full turn – 17,000- 20,000 lbs. _____

12.42 Hinge pin height, fully raised – 12-13 ft., **state-** _____

12.43 Loader Controls:

a) One dual function lever that provides lift and curl of the bucket. _____

b) Bucket leveller - automatic with position indicator. _____

c) Automatic “Return to carry” option. _____

d) Boom height control (kick-out) - automatic, adjustable. _____

- 12.44 Ride control system (accumulator) required to attenuate machine bounce during travel. Shall be OEM system. (Aftermarket system unacceptable) _____
- 12.45 The ride control system shall be of the type that automatically engages or disengages, dependent on the machines ground speed. _____
- 12.46 Loader bucket:
- a) Bucket general purpose. Bucket capacity, SAE – 3 yd3. struck _____
 - b) High Capacity Snow Bucket, ~~state~~- SAE – yd3. Struck- _____
- 12.47 Bucket width to exceed machine width at tires. _____
- 12.48 Cutting edge - bolt-on, heat treated steel, 1, 2 or 3 piece reversible blade acceptable, full width of bucket x 12 inch deep, Bucyrus or equal, state make and model being bid. State make and model of blade supplied- _____
- 12.49 Bottom wear plates - required to prevent bucket heel from rubbing on ground with bolt-on cutting edge in place. _____
- 12.50 Side wear plates - bolt-on, replaceable, Bucyrus or equal, state make and model being bid- _____
- 12.51 OEM approved Loader safety prop bar - required. _____
- 12.52 Hydraulic fluid level indicator - required. _____
- 12.53 Auxiliary hydraulics for attachment growth. Loader must have a 3rd function valve. _____
- OPERATOR COMPARTMENT-**
- 12.54 Type -ROPS roll over protective structure complete with pressurized cab. OSHA certified or equal. _____
- 12.55 Insulation - required for sound suppression, rated as per 13.21 _____
- 12.56 Seat – Cushioned, adjustable high back bucket type with cloth upholstery, air suspension, lumbar support, armrests and retractable seat belt. _____
- 12.57 Windows - tinted safety glass with appropriate markings for all panes. _____
- 12.58 Sun visor - fold-down type. _____
- 12.59 Door - lockable with keyed lock. Door/window shall latch in fully opened position. _____
- 12.60 Exterior rear view mirrors - one (1) each side. Heated, remote electric adjusting _____
- 12.61 Interior rear view mirror. _____
- 12.62 Windshield wipers – Winter type, two speed, front and rear. _____
- 12.63 Windshield washers - front and rear. _____
- 12.64 Heater/defroster/pressurizer - heavy duty, hot water type with multi-speed fan and filtered air intake. _____
- 12.65 Must have interior cab heater capable of sustaining cab temperature to _____

- 20°C at an outside ambient air temperature of - 40°C. _____
- 12.66 Defroster - capable of keeping all windows clear at – 40°C. _____
- 12.67 Air conditioning - required. _____
- 12.68 Radio - AM/FM/CD. _____
- 12.69 Steering wheel - tilt type. _____
- 12.70 Rubber floor covering - required throughout. _____
- 12.71 OEM installed rear view camera _____
- 12.72 Instrumentation:
Shall be as follows but not limited to:
- a) Engine coolant temperature gauge and alarm. _____
 - b) Engine oil pressure gauge and alarm. _____
 - c) Transmission oil temperature gauge _____
 - d) Hour-meter- required. Non-resettable. _____
 - e) Ammeter, voltmeter, state- _____
 - f) Fuel gauge- required. _____
 - g) Tachometer- preferred, state- _____
- 12.73 Gauges shall be mounted in the control panel (dashboard), or in a location that is easily observed by the operator from the seat. _____
- 12.74 Noise level, interior - 85 dB (A), measured in accordance with SAE J336, **state noise level-** _____
- 12.75 Rear sun shade required _____
- 12.76 (10) lbs ABC Type Fire Extinguisher, First Aid Kit, Flare Kit mounted as per Manufacture’s OEM recommendation, **state location-** _____
- 12.77 Steps and handrails to provide safe cleaning of front windshield _____
- 12.78 Left and right cab doors preferred, complete with a full length ladder to provide safe exit if required. _____
- 12.79 Self-cleaning steps for safe entry and exit _____
- ELECTRICAL & LIGHTING-**
- 12.80 Type - 24 volt, negative ground electrical system. _____
- 12.81 Electric starter - required. _____

- 12.82 Electric starter thermally and over spin protected. _____
- 12.83 Starter switch key type or keyless type with security code, **state-**. _____
- 12.84 Three (3) sets of keys required. _____
- 12.85 Batteries - two (2), maintenance free 950-1100 CCA capacities each. _____
- 12.86 Battery disconnect switch - required.
 - a) Battery disconnect switch, protected from the elements. _____
- 12.87 Alternator – 60-80 amps, **state output-** _____
- 12.88 LED, Combination stop and tail lights - two (2), protected from damage. _____
- 12.89 LED, Signal lights with warning flashers - two (2), visible front and rear. _____
- 12.90 Headlights - two (2), mounted immediately below cab roof. _____
- 12.91 Work lights:
 - a) Heavy Duty work lights required. _____
 - b) Front - two (2), adjustable, mounted near top pivot of loader lift arms. _____
 - c) Rear - two (2). Must be fully adjustable. _____
 - d) Independent on/off switch for each pair of work lights.(front and rear)
Dash mounted, wired through ignition. _____
- 12.92 Full set of Manitoba Highways provincially approved highway lights (wigwag lights). _____
- 12.93 Shall be independently controlled through a separate switch. _____
- 12.94 Highway lights not to extend past cab. _____
- 12.95 Cab interior (dome) light. _____
- 12.96 Horn. _____
- 12.97 Warning Beacons: **(Whelen Products Class I only)**
 - a) Blue/Amber located on all four corners of the cab roof flush mounted. _____
 - b) Both Blue and Amber lights to be independently switched. _____
- 12.98 Complete with dash mounted on/off switch wired through ignition. _____
- 12.99 (97 dba) Back-up alarm - mounted at rear of unit, located to be protected from damage. _____
- 12.100 Radio installation provision - 12 volt, 20-amp circuit available at a spare circuit breaker, suitable for installation of a 2-way mobile radio. _____
- 12.101 Radio to be wired on an independent circuit. _____

12.102 Wiring:

a) All electrical functions (except warning flashers, and 2-way radio circuit) shall be wired through the ignition. _____

b) Wiring for all locally installed equipment shall be colour coded, loomed and properly secured. _____

c) All joining of wires and electrical connectors shall be soldered and sealed with heat shrink tubing or with sealed weather tight connectors _____

d) No splices shall be made into OEM or after market wiring harnesses. _____

e) All additional circuits are to be run from a power distribution box. _____

f) All fuses, relay's and circuit breakers to be made easily accessible. _____

MISCELLANEOUS-

12.103 Fenders – Full width, required front and rear with anti-skid tape on step surfaces where applicable. _____

12.104 Engine side covers - hinged (if lockable, all locks must keyed alike). _____

12.105 Drawbar hitch with pin. _____

12.106 Access ladder with non-skid step surfaces. _____

12.107 Grab handles - supplied as required at all appropriate locations. _____

12.108 Toolbox - lockable, **state** location. _____

12.109 Slow moving vehicle emblem. _____

12.110 Groeneveld Twin Automatic Greasing System. _____

12.111 Reservoir capacity – The reservoir capacity shall be sufficient as to allow the machine to run for 250 hours before being refilled _____

12.112 Welco Beales Quick Coupler (**no substitutes**) required for attachment(s), _____

12.113 OEM Anti-theft security safety system required, **state type-** _____

12.114 Oil sampling valves for engine, transmission and hydraulic system _____

12.115 Electric fuel priming pump to eliminate fuel contamination _____

ELECTRICAL AND LIGHTING-

12.116 **Type** – 12-Volt, negative ground electrical system. _____

12.117 **Electric starter** – required with keyed starter switch, if not key operator, provide starting details- _____

12.118 **Batteries** – dual 1000-1500 CCA combined capacity. _____

12.119 **Alternator** – 65 -75Amp, **state** capacity- _____

12.120 **Combination stop and tail lights** – two (2). _____

- 12.121 **Signal lights with warning flashers** – two (2) front and two (2) rear. _____
- 12.122 **Warning flashers**-Warning flashers shall be operable with the key removed. _____
- 12.123 **Headlights** – two (2). _____
- 12.124 **Work lights-**
- i) **Front** – two (2) front mounted, adjustable, located immediately below cab roof line. _____
 - ii) **Rear** – two (2) rear mounted, adjustable, located immediately below cab roof line. _____
 - iii) **Side** – **State optional price** for two (2) side mounted, located immediately below cab roof line. _____
- 12.125 **Independent on/off switch** for each pair of work lights, dash mounted, wired through ignition, labelled with permanent type, engraved style labels. _____
- 12.126 **Cab interior light** – required. _____
- 12.127 **Radio** – AM/FM/CD, factory installed. _____
- 12.128 **Radio installation provision** – 12 Volt, 20 Amp separate/independent circuit available at a spare circuit breaker, suitable for installation of a 2-way mobile radio. _____
- 12.129 **Horn** – operable from driving position and from backhoe position. _____
- 12.130 **Mini light bar guard** – ramped, heavy duty bolt-on metal guard, designed to permit servicing of the light bar without being removed. _____
- 12.131 **Back-up alarm** – 97 dB(A), factory installed, mounted to be protected from damage. _____
- 12.132 **Wiring-** for all locally installed accessories shall be colour coded, loomed and properly secured. _____
- 12.133 **Splicing** in any factory harnesses is unacceptable. All electrical power for locally supplied electrical components shall be supplied from an OEM power distribution box. _____
- 12.134 **Wiring Joining-** All joining of wires and electrical connectors shall be soldered and sealed with heat shrink tubing. _____
- 12.135 **Wiring-** All wiring for work lights and warning lights shall be supplied with no exposed wiring. _____
- 12.136 **Lighting-**All lighting shall be LED, **state-** _____
- 12.137 **Slow moving vehicle emblem** – Grote 71152 or equal c/w bracket, mounted to rear of backhoe. _____
- 12.138 **Fuel tank** – fully fuelled upon delivery, **state capacity-** _____
- 12.139 **Safety Equipment-** (10) ABC type fire extinguishers and first aid kit required. **State location-** _____

- 12.140 Back-up Camera and guarded _____
- 12.141 Back-up alarm required _____
- 12.142 48" Pallet Forks attachment required _____
- 12.143 96' rotary sweeper attachment required _____

FUEL CONSUPTIONS-

- 12.144 The loaders will be used in the following manner: (25% truck loading, 40% stock Piling, 15% transport, 20% idling) Bidder to state fuel consumption based on the above percentages. _____

13.0 WARRANTY-

- 13.1 All warranty information shall be detailed and include all exclusions. The successful bidder shall provide all published warranty information upon delivery of the equipment. Bidder shall state all warranty information. _____
- 13.2 Basic Vehicle **State-** _____
- 13.3 Batteries **State-** _____
- 13.4 Drive-train **State-** _____
- 13.5 Cab structure/corrosion **State-** _____
- 13.6 Frame/cross-members **State-** _____
- 13.7 Cab paint **State-** _____
- 13.8 Engine **State-** _____
- 13.9 Transmission **State-** _____
- 13.10 Axles, front & rear **State-** _____
- 13.11 Towing **State-** _____

14.0 TRAINING-

- 14.1 The Contractor shall be required to provide training (at the Contractor's expense) for the City of Winnipeg maintenance and operating personnel. The training shall be divided into two separate sessions, one for maintenance personnel and one for operating personnel. The training shall be conducted in separate or combined sessions for each group of personnel.

The duration of the sessions shall be as long as required for adequate familiarization and orientation of the equipment to the satisfaction of the Contract Administrator.

The training shall be conducted within two (2) calendar weeks from the date of delivery and shall be coordinated through the Contract Administrator.

The training shall be conducted in Winnipeg at a time and location designated by the Contract Administrator.

Pricing should be based on two (2) business days for maintenance personnel and two (2) business days for operating personnel.

Note: The first payment of the contract on the equipment will not be issued until successful completion of training has been conducted to the satisfaction of the Contract Administrator.

Training Aides:

- a) On the type of equipment being offered, **state if CD Rom training aides or on-line training are available-**

What is the recommended minimum training duration for:

Primary unit:

For major attachments (if applicable):

State what other training aids are available (videos, CDs).

For the primary unit:

For major attachments (if applicable):

Training Materials and applicable manuals or on-line training material information must be provided to the Operator Training Branch of Public Works at the earliest possible opportunity, no later than (4) weeks prior to delivery, when supplying vehicles, equipment and related attachments. Send these materials, preferably in both electronic format and hard copy (training videos are to be supplied on either CD or DVD) to: Public Works Department, Human Resources Division Equipment Operator Training Branch

102-1155 Pacific Avenue
Winnipeg, MB
R3E 3P1

Leanne Guertin
Equipment Operator Training Consultant

Cell: 204-451-3793
Contact e-mail: lguertin@winnipeg.ca

15.0 DELIVERY-

- 15.1 Delivery Point- The complete unit shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.I.V.S. (if applicable) to the body manufacture. The successful bidder shall be notified by the Contractor Administrator the delivery address prior to issuance of the purchase order.

- 15.2 Delivery Time- Within **(6-8) six to eight calendar weeks** from the date of official notification of award of contract. Equipment shall be delivered between 8:00 am and 3:00 pm on Business Days.

15.3 Delivery Contact- The Contractor shall contact the Contract Administrator prior to delivery of the equipment.

15.4 P.D.I- A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list

16.0 MANUALS-

16.1 Manuals supplied under this contract shall be in English and shall be specifically for the cab & chassis, snow plow, sander/dump box, pre-wetting system and control system supplied. General purpose manuals are not acceptable. The manuals shall cover the complete equipment including all components thereof, CD is preferred where available.

16.2 The following manuals shall be supplied with the units when delivered:

- a) Operator's manual – Two (2) per unit (one operators manual shall be sent to the Equipment Operator Training Branch
- b) Parts and service manuals – one (1) complete sets including preventative maintenance schedules. CDs are preferred.
- c) Detailed wiring schematics – three (3) complete sets, including trouble shooting guide.

FORM Q-SUSTAINABILITY QUESTIONNAIRE

Product Information

(Yes/No)

Product Sustainability: High Quality, Small Ecological Footprint

1. Have you employed environmentally innovative best practices and/or technologies in the goods you are supplying in this Bid Opportunity as compared to similar goods? If yes, please describe them below.

Describe:

2. Have you obtained 3rd party environmental certifications for any of the products that you are supplying in this Bid Opportunity?

Describe:

3. Have you performed a life cycle assessment of the goods you are supplying in this Bid Opportunity? If yes, please describe below.

Describe:

4. Are there any other environmentally innovative best practices and/or technologies in the goods you are supplying in this Bid Opportunity that we could have specified in this tender, but have not? If yes, please describe them below.

Describe:

Company Information

Energy and Climate: Reducing Energy Costs and Greenhouse Gas Emissions

1. Have you measured your corporate greenhouse gas emissions? If yes, please report your total annual greenhouse gas emissions reported in the most recent year measured?

Describe:

2. Have you set publicly available greenhouse gas reduction targets? If yes, what are those targets?

Describe:

Material Efficiency: Reducing Waste and Enhancing Quality

1. Do you measure the total amount of solid waste generated from the facilities that produce your product(s) for this Bid Opportunity? If yes, please report for the most recent year measured.

Describe:

2. Have you set publicly available solid waste reduction targets? If yes, what are those targets?

Describe:

3. Do you measure the total water use from facilities that produce your product(s) for this Bid Opportunity? If yes, please report for the most recent year measured.

Describe:

4. Have you set publicly available water use reduction targets? If yes, what are those targets?

Describe:

Natural Resources: Responsibly Sourced Raw Materials

1. Have you established publicly available sustainability purchasing guidelines for your direct suppliers that address issues such as environmental compliance, employment practices and product safety?

Describe:

Social Responsibility: Ensuring Responsible and Ethical Production

1. Do you have a process for managing social compliance at the manufacturing level?

Describe:

2. Do you work with your supply base to resolve issues found during social compliance evaluations and also document specific corrections and improvements?

Describe:

3. Do you invest in community development activities in the markets you source from and/or operate within? _____

Describe:
