

FORM A: BID
(See B7)

1. Contract Title SUPPLY & DELIVERY OF INDUSTRIAL LOADER BACKHOES

2. Bidder

Name of Bidder

Street

City

Province

Postal Code

Facsimile Number

(Mailing address if different)

Street or P.O. Box

City

Province

Postal Code

The Bidder is:

(Choose one)

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

E-mail 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 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 B8)

SUPPLY & DELIVERY OF INDUSTRIAL LOADER BACKHOES

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
1	100 hp Industrial Loader Backhoe	08117	Each	(3)	\$ _____	\$ _____

TOTAL BID PRICE (GST and MRST extra) (in figures) \$ _____

(in words) _____

 Name of Bidder

FORM N: DETAILED SPECIFICATIONS 08117
100 HP INDUSTRIAL LOADER BACKHOE

1.0 TYPE-

- 1.1 Shall be **100 hp rubber tired four wheel drive industrial loader backhoe with attachments** features as specified herein. The unit shall be the manufacturer's latest model. The equipment shall be new 2009 model year.
- 1.2 The **rubber tired four wheel drive industrial loader backhoe** shall be furnished complete and ready for use. All parts not specifically mentioned, but which are required to complete and place the unit in successful operation, shall be furnished as though specifically mentioned in these specifications. The complete unit, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.
- 1.3 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 unit.
- 1.4 **The ratings specified herein merely state the minimum values acceptable to the City. There is no intent of implying that these values are sufficient for the design of the unit being bid.**

2.0 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 **rubber tired four wheel drive industrial loader backhoe with attachments** and all its components 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/acts-regulations/GENERAL/M/mvsa/regulations/mvsrg/001/mvsr3-5.html>
- Manitoba/Winnipeg Safety and Health Act = <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

3.0 QUALIFICATIONS OF MANUFACTURER / CONTRACTOR-

3.1 **The Contractor shall be an authorized distributor/supplier of the industrial tractor loader backhoe being bid.**

3.2 **The Contractor 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 industrial tractor loader backhoe being offered. Further to B9.1, Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience on industrial tractor loader backhoe equipment, and general service capabilities. A description of the service facility shall be provided within 3- Calendar Days upon request of the Contract Administrator.

4.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS-

4.1 All items in these specifications must be answered indicating compliance or non-compliance. **Bidders shall state "yes" for compliance or state deviation, or give a reply where requested to do so.** Deviations shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.

4.2 **Each bidder is required to fill in every blank. Failure to do so may be used as a basis for rejection of bid.**

5.0 PERFORMANCE-

5.1 Shall be capable of consistent top performance for construction, and excavation work during the summer and winter environments which are normal to the City of Winnipeg. _____

6.0 MAKE AND MODEL-

6.1 State make and model being bid-_____

7.0 WEIGHT AND DIMENSIONS- (As Bid)

7.1 Operating weight (as bid) – 18,000lbs, state weight- _____

7.2 Overall transport width –8'approx., state - _____

7.2.1 Overall width, stabilizer spread, outside edge of pad – state- _____

7.3 Overall height (to top of cab) – 9' 3" approx., state- _____

7.3.1 Overall transport height – 12' 8" approx., state- _____

7.4 Overall transport length – 24 ft. approx., state- _____

7.5 Wheelbase – 7' approx., state- _____

7.6 Turning radius – curb clearance with brakes applied, state- _____

8.0 ENGINE-

- 8.1 Type –**Tier III compliant** -diesel, liquid cooled and turbo charged. (SCR- Selective Catalytic Reduction not acceptable). 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- _____
- 8.2 Net horsepower as per SAE J1349 – 100 hp, state- _____
- 8.3 Net peak torque as per SAE J1349, state- _____
- 8.4 Fuel shut-off – electric solenoid type. _____
- 8.5 Fuel filter and water separator. _____
- 8.6 Oil filter – full flow, spin-on type. _____
- 8.7 Air cleaner – dry cartridge type with dash mounted restriction indicator. _____
- 8.8 Throttle – hand operated with foot override. _____
- 8.9 Exhaust – muffled, vertical discharge with bend and 40° cut-off (rain cap unacceptable) . _____
- 8.10 Coolant – extended life, ethylene glycol based, protected to -40° F/C. _____
- 8.11 Engine block heater – 750 Watt. _____
- 8.12 Cold weather starting aid – glow plugs or air intake warmer, state type. _____
- 8.13 Engine protection shutdown system – shall provide visual and audible warning of principal machine systems including engine oil pressure and coolant temperature c/w engine shutdown. _____

9.0 TRANSMISSION-

- 9.1 Type – power-shift transmission with torque converter, manual shift with power reverser preferred, state- _____
- 9.2 Shifting – fully synchronized. _____
- 9.3 Speeds, forward – four (4). _____
- 9.3.1 Speeds, reverse – three (3). _____
- 9.4 Power-shift direction reverser. _____

10.0 AXLES & BRAKES-

- 10.1 Front axle – driven type (4WD) with guarded drive shaft. _____
- 10.2 Brakes – wet disk type with individual pedals simultaneous or independent operation. _____

10.2.1 Parking brake – foot or hand operated. _____

11.0 TIRES, RIMS AND FENDERS-

11.1 Front tires – Michelin or Bridgestone preferred, 12.5/80-18 tires with matching rims, state size. _____

11.1.1 Ply rating – 12-ply G rated _____

11.1.2 Tread – lug type. _____

11.2 Rear tires – Michelin or Bridgestone preferred, 21L x 24 tires with matching rims, state size. _____

11.2.1 Ply rating – 12-ply G rated _____

11.2.2 Tread – R4, industrial. _____

11.3 Fenders – required front and rear, rubber or polymer, state material. _____

12.0 FRONT END LOADER-

12.1 Lift capacity, full height – 6500 lbs., state- _____

12.2 Bucket breakout force – 10,000 lbs., state. _____

12.3 Dump clearance as bid (bucket @ 45°) – 102 in. approx., state. _____

12.4 Controls – single lever with clutch disconnect button, return-to-dig and float. _____

12.4.1 Self-levelling bucket with level indicator. _____

12.5 Loader bucket – flat bottom, general purpose type with bolt-on cutting edge. _____

12.5.1 SAE heaped capacity – 1.25 yd³, state. _____

12.5.2 Width to exceed machine width at rear tires. _____

12.5.3 Wear plate(s) – required to prevent bucket heel from rubbing on ground with bolt-on cutting edge in place. _____

12.5.4 Lashing ring – heavy duty, steel weld-on hook with spring mounted clasp, top-centre mounted at front of loader bucket, suitable for transporting hydraulic hammer in loader bucket. _____

12.6 Loader safety prop bar – required. _____

12.7 OEM ride control , state- _____

13.0 BACKHOE-

13.1 Type – centre pivot with extendable dipper-stick. _____

- 13.2 Maximum digging depth – 19' 6", state digging depth. _____
- 13.3 Digging force, bucket cylinder (SAE), with 24 in. bucket – 15,500 lbs., state. _____
- 13.3.1 Digging force, crowd cylinder (SAE), with dipper-stick retracted – 9,700 lbs., state. _____
- 13.4 Controls – SAE excavator style, pilot operated hydraulic joystick controls. _____
- 13.5 Quick coupler attachment bracket – required for quick attachment of all buckets and hydraulic hammers, state make and model being bid. _____
- 13.5.1 Attachment bracket shall permit use of two (2) bucket positions. _____
- 13.5.2 Attachment bracket shall permit bucket, bucket position changes and hydraulic hammer changes without the use of any tools. _____
- 13.6 24" Digging bucket – 24 in. heavy duty digging bucket with replaceable pin-on teeth, complete with required attachment pin(s). Backhoe shall be delivered with the 24" Digging Bucket (w/teeth) installed. _____
- 13.6.1 **Optional Buckets:**
- i) 24" Smooth edge bucket – 24 in. heavy duty bucket, flat bottom, bolt-on cutting edge, complete with required attachment pin(s).
State Optional Price- _____
 - ii) 30" Smooth edge bucket – 30 in. heavy duty bucket, flat bottom, bolt-on cutting edge, complete with required attachment pin(s).
State Optional Price- _____
 - iii) Clam Bucket
State Optional Price- _____
- 13.6.2 All buckets to be complete with certified lifting hooks. _____
- 13.7 Stabilizer pads – reversible, flip-over type pads. _____
- 13.8 Front counterweight – supplied as required to provide proper machine balance and roading characteristics. _____
- 13.9 Replaceable bushings and grease fittings at all backhoe pivot points, cylinder rod and closed ends, and bucket links. _____
- 13.10 Auxiliary hydraulics, couplers and controls shall be provided as required on all machines to accommodate hydraulic hammers. . _____
- 13.11 Factory installed hydraulic thumb, state- _____
- 14.0 OPERATOR COMPARTMENT-**
- 14.1 Type – ROPS roll-over protective structure complete with pressurized cab, OSHA certified or equal. _____
- 14.1.1 Cab layout shall provide a comfortable seating position for a 95th percentile male in both the loader and backhoe operating positions. _____

- 14.2 Insulation and headliner – required for sound suppression and severe weather climate. _____
- 14.2.1 Floor covering – rubber matting, required throughout. _____
- 14.3 Seat – cushioned, adjustable bucket type with arm rests, cloth upholstery mechanical or air suspension with retractable seat belt. _____
- 14.4 Ride control – required, factory installed. _____
- 14.5 Windows – tinted safety glass with appropriate markings for all panes. _____
- 14.5.1 All windows shall be opening type where available. _____
- 14.6 Ignition keys – three (3) sets required per machine. _____
- 14.7 Doors – one (1) each side with spring assisted strut, lockable with common key. _____
- 14.8 Interior rear-view mirror – required. _____
- 14.9 Windshield wipers – intermittent, required front and rear with washers. _____
- 14.10 Heater/defroster – heavy duty, hot water type with multi-speed fan, capable of keeping all windows clear at -40° F/C. _____
- 14.10.1 Window fans – two (2) required with guards. _____
- 14.11 Air conditioning – factory installed with under hood compressor. (Note: roof mounted air conditioners are not acceptable.) _____
- 14.12 Steps – open grate type. _____
- 14.13 Toolbox – lockable, state location. _____
- 14.14 Instrumentation:
 - 14.14.1 Coolant temperature – gauge with audible alarm. _____
 - 14.14.2 Engine oil pressure – gauge or warning light with audible alarm. _____
 - 14.14.3 Transmission oil temperature – gauge or warning light with audible alarm. _____
 - 14.14.4 Engine hour-meter – required, non-resettable type. _____
 - 14.14.5 Tachometer – required. _____
 - 14.14.6 Fuel gauge – required. _____
- 14.15 Noise level, interior – 85 dB(A), measured in accordance with SAE J336, state noise level- _____
- 15.0 ELECTRICAL AND LIGHTING-**
- 15.1 Type – 12-Volt, negative ground electrical system. _____

- 15.2 Electric starter – required with keyed starter switch. _____
- 15.3 Batteries – dual 1500 CCA combined capacity. _____
- 15.4 Alternator – 65 Amp, state capacity. _____
- 15.5 Combination stop and tail lights – two (2). _____
- 15.6 Signal lights with warning flashers – two (2) front and two (2) rear. _____
- 15.6.1 Warning flashers shall be operable with the key removed. _____
- 15.7 Headlights – two (2). _____
- 15.8 Work lights:
 - i) Front – four (4) front mounted, adjustable, located immediately below cab roof line. _____
 - ii) Rear – four (4) rear mounted, adjustable, located immediately below cab roof line. _____
 - iii) Side – two (2) side mounted, located immediately below cab roof line. _____
- 15.8.1 Independent on/off switch for each pair of work lights, dash mounted, wired through ignition, labelled with permanent type, engraved style labels. _____
- 15.9 Cab interior light – required. _____
- 15.10 Radio – AM/FM/CD, factory installed. _____
- 15.11 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. _____
- 15.12 Horn – operable from driving position and from backhoe position. _____
- 15.13 Mini light bar – Grote 76813, roof mounted, 360° visibility, wired through ignition, fused, dash mounted switch c/w permanent type, engraved style label. _____
- 15.13.1 Mini light bar guard – ramped, heavy duty bolt-on metal guard, designed to permit servicing of the light bar without being removed. _____
- 15.14 Back-up alarm – 97 dB(A), factory installed, mounted to be protected from damage. _____
- 15.15 Wiring for all locally installed accessories shall be colour coded, loomed and properly secured. _____
- 15.15.1 Splicing in any factory harnesses is unacceptable. All electrical power for locally supplied electrical components shall be supplied from an OEM power distribution box. _____
- 15.15.2 All joining of wires and electrical connectors shall be soldered and sealed with heat shrink tubing. _____

15.15.3 All wiring for work lights and warning lights shall be supplied with no exposed wiring.

15.16 All lighting shall be LED, state-

16.0 MISCELLANEOUS-

16.1 Hydraulic hammer – NPK E204 hammer or equivalent c/w required attachment pins and quick couplers, **state optional price-**

16.1.1 Hydraulic hammer shall be compete with a lashing ring and suitable length heavy duty chain with forged slip hooks for safe and secure transport of hydraulic hammer in loader bucket.

16.2 Slow moving vehicle emblem – Grote 71152 or equal c/w bracket, mounted to rear of backhoe.

16.3 Fuel tank – fully fuelled upon delivery, state capacity.

16.4 Grease fittings – readily accessible with remote grease zerks as required.

17.0 GREASING SYSTEM-

17.1 **Greasing System-**Complete unit shall have a CPL automatic greasing System. Automatic greasing system – complete Industrial Loader Backhoe shall be supplied with a **Groeneveld/CPL Systems Inc.** automatic greasing system including all required grease points on the flusher body, and automatic low level shut-off with in-cab red light indicator.

17.2 State, quantity of greasing points-

18.0 ONLINE DEALER SUPPORT-

The following information shall be available web based on line at the time of delivery of the equipment and shall be included in bid price. On-line dealer support shall be for a (9) year life cycle.

18.1 Operational (Operator manual) information-

18.2 Parts/technical/service/repair information-

18.3 Preventative maintenance schedules-

18.4 State Website address-

18.5 Website subscriptions that are necessary in providing delivery of the information shall be included in the cost

18.6 The information contained in the website must be deemed acceptable by the City's equipment inspector. In the event that the City inspector finds the that the information contained on the website.

- Does not provide enough detail,
- Is too difficult to navigate

At the inspectors discretion, the Contractor shall instead, supply the required manuals/CD's/paper bound copies.

19.0 WARRANTY-

19.1 The Contractor shall warrant all equipment (excluding hydraulic hammer) and all parts thereof, against any defects of workmanship, construction and materials, and agrees to repair or replace without cost to the City any article that has become defective and not proven to have been caused by negligence on the part of the user within three **(3) years or 5000 hours** from the date the equipment is put into service by the City of Winnipeg.

19.1.1 The Contractor shall warrant the hydraulic hammer as follows:

- i) Working tool – 30 days.

 - ii) Wear items including retaining pin, both upper and lower tool bushings, impact ring and bushing – 6-months.

 - iii) Main component including main body, tool holder and gas head – 1-year.
-
-

19.1.2 For the above hydraulic hammer warranties, the Contractor agrees to warrant the specified components against any defects of workmanship, construction and materials, and agrees to repair or replace without cost to the City the article(s) that has become defective and not proven to have been caused by negligence on the part of the user within the specified times from the date the equipment is put into service by the City of Winnipeg.

19.2 The Contractor shall provide an extended power train warranty on the industrial tractor loader backhoe including, but not limited to, transmission, transfer bevel gear, pinion and bevel gear, drive shafts, axles, motors, engine (excluding radiator, alternator, starter, compressor) final drive gear train, steering clutches, steering brakes, differential, universal joints, etc. against any defects or workmanship, construction and materials, and agrees to repair or replace without cost to the City, articles that have become defective and not proven to have been caused by negligence on the part of the user within five (5) years or 7500 hours from the date the equipment is put into service by the City of Winnipeg.

19.3 All incidental warranty related costs (including, but not limited to, Contractor's travel, mileage, deductibles, etc.) in executing any part of the warranty shall be the sole responsibility of the Contractor.

19.4 State optional extended warranties for complete unit-

20.0 PERFORMANCE RELIABILITY-

20.1 The responsibility for the design of the complete unit, its performance and reliability shall rest upon the Contractor. _____

20.2 The term "repeat failures" as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the unit inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, sub-assembly, 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 schedules. _____

20.3 Where the unit develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance. _____

21.0 STANDARD REPAIR TIMES-

21.1 SRT Times- Please supply Standard Repair times on the type of equipment being bid if available- _____

22.0 TRAINING-

22.1 The Contractor shall provide operational and maintenance training by qualified staff for City of Winnipeg personnel. The training shall be conducted in separate sessions for each group of personnel. Each session shall be approximately 1/2 day in duration and shall provide adequate familiarization and orientation on the unit, to the satisfaction of the Contract Administrator. The training shall be conducted in Winnipeg at a location to be designated by the Contract Administrator. _____

22.2 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 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
Operator Training Branch
102-1155 Pacific Ave
R3E 3P1**
E-mail: pwd-opertrain@winnipeg.ca

Attn: Equipment Operator & Tradesperson Instructor - Pending Equipment Delivery

23.0 DELIVERY-

23.1 **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. to the WFMA 185 Tecumseh Street, Winnipeg MB.

23.2 **DELIVERY TIME-** Within **sixteen (16) 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. It is the responsibility of the contractor to unload all equipment and associated attachments.