

FORM A: BID
(See B8)

1. Contract Title SUPPLY AND DELIVERY OF INDUSTRIAL LOADER BACKHOES

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 AND DELIVERY OF INDUSTRIAL LOADER BACKHOES

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	QUANTITY	UNIT PRICE
1.	Industrial Loader Backhoe (90HP, with 4-in-1, General Purpose, Snow Loader Buckets and Dig, Trench Backhoe Buckets, Auger and Breaker)	14013	Each	1	
2.	Industrial Loader Backhoe (90HP with General Purpose Loader Bucket and Cemetery Dig Backhoe Buckets)	14048	Each	1	

 Name of Bidder

FORM N: DETAILED SPECIFICATIONS 14013

INDUSTRIAL LOADER BACKHOES

1.0 DESCRIPTION OF EQUIPMENT

- 1.1 These specifications describe **Industrial Loader Backhoes** and other equipment and features as specified herein.
- 1.2 The **Industrial Loader Backhoes** shall be a new 2014 model year or newer.
- 1.3 The **Industrial Loader Backhoes** 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 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.
- 1.4 It will be the responsibility of the Bidder to inform the City of any errors or omissions in these specifications, for under this Contract the Contractor shall be held responsible for the satisfactory operational function of the equipment.

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 **Industrial Loader Backhoes** shall comply with the applicable regulations:

National Safety Mark, NSM = <http://www.tc.gc.ca/eng/acts-regulations/acts-road.htm>

Manitoba 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://www.sae.org/>

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. 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, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

3.2 If a suitable warranty facility is not available within 10 km of the boundaries of the City of Winnipeg, the Bidder may propose that the City of Winnipeg Repair Facility perform warranty work. Any Work performed by the City of Winnipeg Repair Facility shall be charged to the Contractor at the Facility's shop rate in effect at the time the work is performed **(for example, shop rate for 2014: \$88.00/hour and \$118.00/hour for overtime and callout).**

3.3 Location of the service facility located within 10 km of the boundaries of the City of Winnipeg.

The Bidder shall choose and fill in one of the Clauses listed below. --- 3.4) or 3.5)

3.4 Bidder's own facility location. **State the location of the service facility below.**

3.5 Bidder elects to have warranty work be performed by the City of Winnipeg. Bidder shall provide all warranty authorization processes.

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 **Industrial Loader Backhoes**, 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, of 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 **Industrial Loader Backhoes** 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 **Industrial Loader Backhoes** shall have five (5) years continuous experience manufacturing Specialized Utility Vehicles and associated.

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.

9.3 The Contractor shall have five (5) years continuous experience servicing, repairing and maintaining **Loader Backhoe and associated attachments** of the type being offered.

10.0 SPECIFICATIONS

ENGINE

10.1	Engine make & model	State	_____
10.2	Engine specification	Diesel, Emissions Tier IV Diesel Interim or Final, must meet current Emission Standards.	_____
10.3	Horse Power	Net 90 hp. State	_____
10.4	Torque	Net torque, State	_____
10.5	Engine Aspiration	State	_____
10.6	Fuel shut off	Electric solenoid type	_____
10.7	Fuel Filter	With water separator	_____
10.8	Oil filter	Full flow, spin-on type	_____
10.9	Air cleaner	Dry cartridge type with dash mounted restriction indicator	_____
10.10	Throttle	Hand operated with foot override	_____
10.11	Exhaust	Muffled, vertical discharge with bend and 40° cut-off (rain cap unacceptable)	_____
10.12	Coolant	Extended life, protected to -40° C.	_____
10.13	Engine Block Heater	Approx. 750 Watts	_____

- | | | | |
|-------|-----------------------------------|--|-------|
| 10.14 | Cold weather starting aid | Glow plugs or air intake warmer, state type | _____ |
| 10.15 | Engine protection shutdown system | Visual and audible warning of principle machine systems including engine oil pressure and coolant temperature c/w engine shutdown. | _____ |
| 10.16 | Fuel tank | State capacity | _____ |

ELECTRICAL/ LIGHTING/ SAFETY

- | | | | |
|-------|-------------------------------------|--|-------|
| 10.17 | Type | 12-Volt, negative ground electrical system | _____ |
| 10.18 | Electric starter | with key starter switch | _____ |
| 10.19 | Batteries | Dual 1500CCA combined capacity | _____ |
| 10.20 | Alternator | Approx. 65 Amp, state capacity | _____ |
| 10.21 | Combined stop and tail lights | Two (2) | _____ |
| 10.22 | Signal lights with warning flashers | Two (2) front and two (2) rear | _____ |
| 10.23 | Warning flashers | Operable with key removed | _____ |
| 10.24 | Headlights | Two (2) | _____ |
| 10.25 | Working lights | Front- four (4) front mounted, adjustable, located immediately below cab roof line | _____ |
| | | Rear-four (4) rear mounted, adjustable, located immediately below the cab roof line | _____ |
| | | Side-two (2) side mounted, located immediately below cab roof line. | _____ |
| 10.26 | Light switches | Independent on/off switch for each pair of work lights, dash mounted, wired through ignition, labeled with permanent type, engraved style labels | _____ |
| 10.27 | Cab interior light | Interior light | _____ |
| 10.28 | Radio | AM/FM/CD or MP3 | _____ |
| 10.29 | Radio installation provision | 12 volt, 20Amp spate/independent circuit available at a spare circuit breaker, suitable for installation of a 2-way mobile radio | _____ |
| 10.30 | Horn | Operable from driving position and from backhoe position | _____ |

10.31	Safety lighting (beacon)	Make and Model: Whelen L32 Series Super-LED, SAE Class 1 (or equivalent) Blue/Amber (individual control) Low Dome Beacon, 360 degree visibility. Wired through ignition, lights shall be wired for separate amber and separate blue labelled independently "winter", "off", "summer". The winter mode will turn on both blue and the summer will only turn on the amber lights.	_____
10.32	Beacon guard	Ramped, heavy duty bolt-on metal guard, designed to permit servicing of beacon without being removed.	_____
10.33	Back-up alarm	97 dB, factory installed, mounted to be protected from damage.	_____
10.34	Wiring	All locally installed accessories shall be color coded, loomed and properly secured. Splicing in any factory harness is unacceptable. All electrical power for locally supplied electrical components to be supplied from an OEM power distribution box. All joining of wires and electrical connectors shall be soldered and sealed with heat shrink tubing. All wiring for work lights and warning lights shall be supplied with no exposed wiring.	_____
10.35	LED lighting	All lighting LED, state	_____
10.36	Slow moving sign	Grote 71152 or equivalent with bracket mounted to rear of backhoe	_____

TIRES, RIMS, FENDERS

10.37	Front tires	Michelin or Bridgestone preferred radial or bias, state	_____
10.38	Ply rating	State ply rating	_____
10.39	Tread	R4, Industrial tractor	_____
10.40	Rear tires	Michelin or Bridgestone preferred radial or bias, state	_____
10.41	Ply rating	State ply rating	_____
10.42	Tread	R4, industrial tractor	_____
10.43	Fenders	Front and rear, rubber or polymer, state , material	_____

AXLES & BRAKES

10.44	Front axle	Driven type (4WD) with guarded drive shaft (limited slip differential)	_____
10.45	Rear axle	Differential lock, push button activation	_____

10.46 Brakes Wet disk type with individual pedals simultaneous or independent operations _____

10.47 Parking brake Foot or hand operated, **state** type _____

TRANSMISSION

10.48 Type Power-shift transmission with torque convertor, manual shift with power reverser preferred, **state** _____

10.49 Shifting Fully synchronized _____

10.50 Speeds forward Four (4) _____

10.51 Speeds reverse Three (3) _____

10.52 Power-shift Direction reverser _____

DIMENSIONS

10.53 Overall transport width Approx. 7', **state** _____

10.54 Overall width Stabilizer spread, outside edge of pad, **state** _____

10.55 Overall height (top of cab) Approx. 8' 9", **state** _____

10.56 Overall transport height Approx. 11' , **state** _____

10.57 Overall transport length Approx. 24', **state** _____

10.58 Wheelbase Approx. 84", **state** _____

10.59 Operating weight (as bid) Approx. 16,000lbs, (without attachments) **state** weight _____

10.60 Turning radius Curb clearance with brakes applied, **state** _____

FRONT END LOADER

10.61 Lift capacity, full height Approx. 6500lbs., **state** _____

10.62 Bucket breakout force Approx. 10,000lbs., **state** _____

10.63 Dump clearance as bid Bucket @ 45⁰ approx. 105 inches, **state** _____

10.64 Controls Single lever with clutch disconnect button, return –to-dig and float _____

10.65 Self-levelling bucket With level indicator _____

10.66 Wear plate (s) Required to prevent bucket heel from rubbing on ground with bolt-on cutting edge in place _____

10.67 Lashing ring Heavy duty, steel weld-on hook with spring mounted clasp, top-center mounted at front of loader bucket _____

10.68	Loader safety prop bar	Preferred	_____
10.69	Hydraulic function	3 function hydraulics	_____
10.70	Hydraulic quick attach	For loader bucket	_____
10.71	OEM ride control	state	_____

FRONT BUCKETS

10.72	Clam bucket	4 in 1, With certified lifting hooks and bolt on edge. Approx. width 92" with 1.32 yd ³ capacity, state	_____
10.73	General Material bucket	Approx. 92" width 1.32 yd ³ capacity, state	_____
10.74	Snow bucket	Approx. 92" width, 2.5 yd ³ capacity, state	_____

BACKHOE

10.75	Type	Centre pivot with extendable dipper-stick	_____
10.76	Maximum digging depth	Approx. 18', state digging depth	_____
10.77	Digging force	Bucket cylinder (SAE), with 24 inch bucket approx. 14,000lbs., state	_____
10.78	Dogging force	Crowd cylinder (SAE), with dipper-stick retracted approx. 9,000lbs., state	_____
10.79	Controls	SAE excavator style, pilot operated hydraulic joystick controls	_____
10.80	Multi-brand Quick coupler attachment bracket	For quick attachment of all buckets and hydraulic hammers, state make model being bid	_____
10.81	Attachment bracket	Permit use of two (2) bucket positions	_____
10.82	Attachment bracket	Permit bucket, bucket position changes and hydraulic hammer	_____
10.83	Certified lifting hooks	All buckets to be complete with certified lifting hooks	_____
10.84	Stabilizer pads	Reversible, flip-over type pads.	_____
10.85	Front counterweight	Supplied as to provide proper machine balance and roading characteristics	_____
10.86	Replaceable bushings and grease fittings	At backhoe pivot points, cylinder rod and closed ends, and bucket links	_____
10.87	Auxiliary hydraulics	Couplers and controls shall be provided as required on all machines to accommodate hydraulic hammers	_____
10.88	Hydraulic thumb	Factory installed, state	_____

BACKHOE BUCKETS

10.89	36 inch digging bucket	36 inch heavy duty digging bucket with replaceable pin-on teeth, complete with required attachment pin(s) and certified lifting hooks. Backhoe to be delivered with 36inch digging bucket (w/teeth) installed.	_____
10.90	18 inch trench bucket	18 inch heavy duty trench bucket with replaceable pin-on teeth, complete with required attachment pin(s).	_____
10.91	24 inch trench bucket	24 inch heavy duty trench bucket with replaceable pin-on teeth, complete with required attachment pin(s).	_____

HYDRUALIC BREAKER

10.92	Hydraulic breaker	NPK (6-9 ton) breaker or equivalent with required attachment pins and quick couplers. Complete with lashing ring and suitable length heavy duty chain with forged slip hooks for safe and secure transport of hydraulic hammer in loader bucket.	_____
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HYDRAULIC AUGER

10.93	Hydraulic auger	Planetary drive	_____
10.94	Auger bit	24" x 48" with 2" hex collar	_____

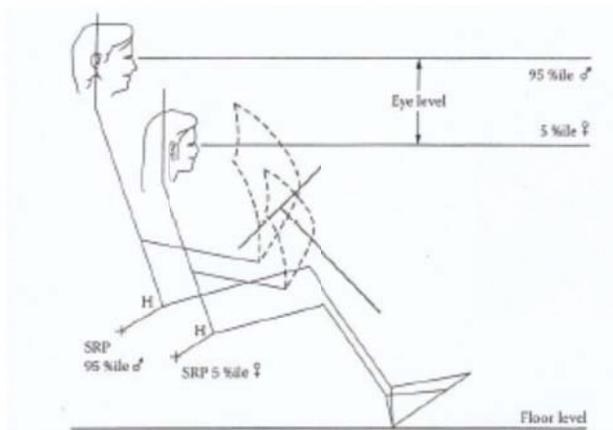
OPERATOR CAB

10.95	Type-ROPS	Roll-over protective structure complete with pressurized cab, OSHA certified or equal	_____
10.96	Insulation and headliner	For sound suppression and severe weather/climate	_____
10.97	Floor covering	Rubber matting, throughout	_____
10.98	Seat	Cushioned, adjustable bucket type with arm rests, cloth upholstery air suspension with retractable seat belt	_____
10.99	Ride control	Factory installed	_____
10.100	All Windows	Tinted safety glass with appropriate markings for all panes and opening type where applicable	_____
10.101	Ignition keys	Three (3) sets required per machine	_____

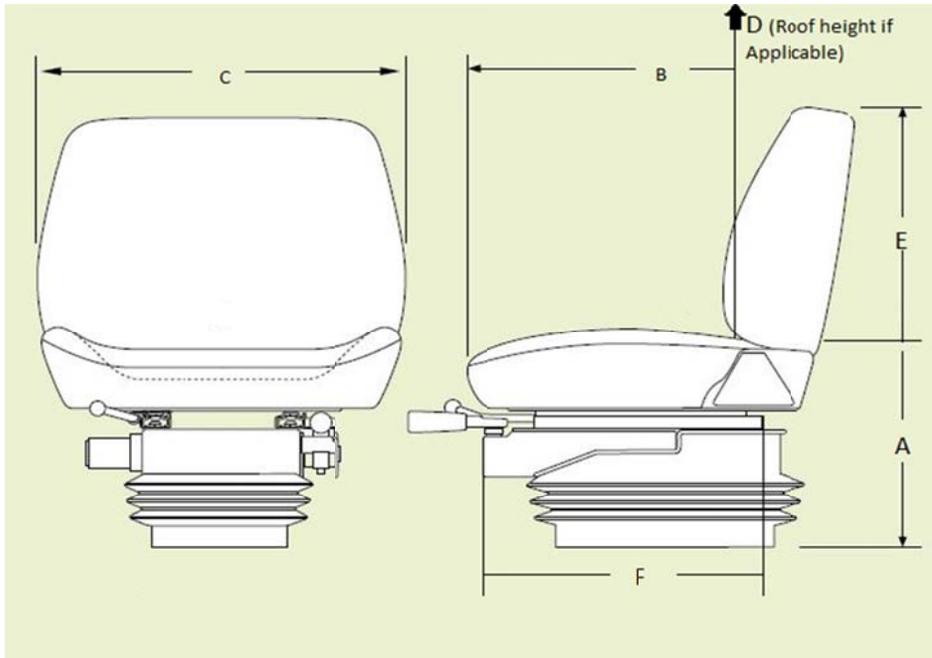
10.102	Doors	One (1) each side with spring assisted strut, lockable with common key	_____
10.103	Interior rear-view mirror	Adjustable	_____
10.104	Windshield wipers	Intermittent preferred, requires front and rear	_____
10.105	Heater/defroster	Heavy duty, hot water type with multi-speed fan, capable of keeping all windows clear at -40 ^o C	_____
10.106	Window fans	Two (2) with guards	_____
10.107	Air conditioning	Factory installed with under hood compressor. (Note: roof mounted air conditioners are not acceptable)	_____
10.108	Steps	Open grate style	_____
10.109	Toolbox	Lockable, state location	_____
10.110	Instrumentation	Coolant temperature-gauge with audible alarm. Engine oil pressure- gauge or warning light with audible alarm. Engine hour meter-non resettable type. Tachometer. Fuel gauge.	_____
10.111	Noise Level, interior	85 dB(A), measured in accordance with SAE J336, state noise level	_____
10.112	Fire extinguisher	Five (5) lbs. High volume ABC type, State location	_____

OPERATOR STATION
ERGONOMICS

10.113 Cab or station layout should provide a comfortable seating position for the 5th to the 95th percentile of personnel. Figure 1 below illustrates the variance between a 5th to a 95th percentile of North American males and females when seated.



10.114 Figure 2: Use the below diagram to answer the specifications for Operator Station Ergonomics.



10.115	Sitting height range from floor (where feet rest) (A)	State , seat height range in inches	_____
10.116	Seat length/depth (B)	State , seat length/depth in inches	_____
10.117	Seat width (C)	State , seat width in inches	_____
10.118	Cab height from seat to roof (if applicable) (D)	State , cab height range in inches	_____
10.119	Back rest height (E)	State , back rest height in inches	_____
10.120	Seat travel range (F)	State , seat travel in inches	_____
10.121	Include any other relevant ergonomic specifications and applicable range of adjustment		_____

GREASING SYSTEM

10.122	Greasing system	Groeneveld/CPL Systems Inc. complete CPL automatic greasing system including all required grease points on the flusher body, and automatic low level shut-off with in-cab red light indicator.	_____
10.123	Greasing points	State , quantity of greasing points	_____
10.124	Grease fittings	Readily accessible with remote grease zerks	_____

11.0 WARRANTY

11.1	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.	_____
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- | | | | |
|------|---------------------|---|-------|
| 11.2 | Basic coverage | (Complete Machine) Warranty 2 years,
2000 hours | _____ |
| 11.3 | Power train | (Engine, Transmission) Warranty 2 years
2000 hours | _____ |
| 11.4 | Hydraulics warranty | (Hydraulics) Warranty 2 years,
2000 hours | _____ |
| 11.5 | Batteries warranty | (Batteries) Warranty 1 year | _____ |
| 11.6 | Tires warranty | (Tires) Warranty 1 year | _____ |
| 11.7 | Electrical warranty | (Electrical) Warranty 2 years,
2000 hours | _____ |

12.0 **DELIVERY**

- 12.1 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 WFMA 185 Tecumseh Street, Winnipeg MB. The successful bidder shall be notified by the Contractor Administrator the delivery address prior to issuance of the purchase order _____
- 12.2 Delivery Time: **Sixteen (16) calendar weeks** from the date of award. Equipment shall be delivered between 8:00 am and 3:00 pm on Business Days. _____
- 12.3 Delivery Contact: The Contractor shall contact the Contract Administrator prior to delivery of the equipment. _____
- 12.4 P.D.I: A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list _____

13.0 **MANUALS**

- 13.1 Manuals supplied under this contract. The manuals shall cover the complete equipment including all components thereof, CD is preferred where available. _____
- 13.2 The following manuals shall be supplied with the units when delivered:
- a) Operator's manual – Two (2) per unit (one operator 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. _____

FORM N: DETAILED SPECIFICATIONS 14048

INDUSTRIAL LOADER BACKHOES

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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://www.sae.org/>

City of Winnipeg Lighting Visibility
Standard=<http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf>.

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10.0 SPECIFICATIONS

ENGINE

10.1	Engine make & model	State	_____
10.2	Engine specification	Diesel, Emissions Tier IV Diesel Interim or Final, must meet current Emission Standards.	_____
10.3	Horse Power	Net 90 hp. State	_____
10.4	Torque	Net torque, State	_____
10.5	Engine Aspiration	State	_____
10.6	Fuel shut off	Electric solenoid type	_____
10.7	Fuel Filter	With water separator	_____
10.8	Oil filter	Full flow, spin-on type	_____
10.9	Air cleaner	Dry cartridge type with dash mounted restriction indicator	_____
10.10	Throttle	Hand operated with foot override	_____
10.11	Exhaust	Muffled, vertical discharge with bend and 40° cut-off (rain cap unacceptable)	_____
10.12	Coolant	Extended life, protected to -40° C.	_____
10.13	Engine Block Heater	Approx. 750 Watts	_____

10.14	Cold weather starting aid	Glow plugs or air intake warmer, state type	_____
10.15	Engine protection shutdown system	Visual and audible warning of principle machine systems including engine oil pressure and coolant temperature c/w engine shutdown,	_____
10.16	Fuel tank	State capacity	_____

ELECTRICAL/ LIGHTING/ SAFETY

10.17	Type	12-Volt, negative ground electrical system	_____
10.18	Electric starter	with key starter switch	_____
10.19	Batteries	Dual 1500CCA combined capacity	_____
10.20	Alternator	Approx. 65 Amp, state capacity	_____
10.21	Combined stop and tail lights	Two (2)	_____
10.22	Signal lights with warning flashers	Two (2) front and two (2) rear	_____
10.23	Warning flashers	Operable with key removed	_____
10.24	Headlights	Two (2)	_____
10.25	Working lights	Front- four (4) front mounted, adjustable, located immediately below cab roof line	_____
		Rear-four (4) rear mounted, adjustable, located immediately below the cab roof line	_____
		Side-two (2) side mounted, located immediately below cab roof line.	_____
10.26	Light switches	Independent on/off switch for each pair of work lights, dash mounted, wired through ignition, labeled with permanent type, engraved style labels	_____
10.27	Cab interior light	Interior light	_____
10.28	Radio	AM/FM/CD or MP3	_____
10.29	Radio installation provision	12 volt, 20Amp spate/independent circuit available at a spare circuit breaker, suitable for installation of a 2-way mobile radio	_____
10.30	Horn	Operable from driving position and from backhoe position	_____

10.31	Safety lighting (beacon)	Make and Model: Whelen L32 Series Super-LED, SAE Class 1 (or equivalent) Blue/Amber (individual control) Low Dome Beacon, 360 degree visibility. Wired through ignition, lights shall be wired for separate amber and separate blue labelled independently "winter", "off", "summer". The winter mode will turn on both blue and the summer will only turn on the amber lights.	_____
10.32	Beacon guard	Ramped, heavy duty bolt-on metal guard, designed to permit servicing of beacon without being removed.	_____
10.33	Back-up alarm	97 dB, factory installed, mounted to be protected from damage.	_____
10.34	Wiring	All locally installed accessories shall be color coded, loomed and properly secured. Splicing in any factory harness is unacceptable. All electrical power for locally supplied electrical components to be supplied from an OEM power distribution box. All joining of wires and electrical connectors shall be soldered and sealed with heat shrink tubing. All wiring for work lights and warning lights shall be supplied with no exposed wiring.	_____
10.35	LED lighting	All lighting LED, state	_____
10.36	Slow moving sign	Grote 71152 or equivalent with bracket mounted to rear of backhoe	_____

TIRES, RIMS, FENDERS

10.37	Front tires	Michelin or Bridgestone preferred radial or bias, state	_____
10.38	Ply rating	State ply rating	_____
10.39	Tread	R4, Industrial tractor	_____
10.40	Rear tires	Michelin or Bridgestone preferred radial or bias, state	_____
10.41	Ply rating	State ply rating	_____
10.42	Tread	R4, industrial tractor	_____
10.43	Fenders	Front and rear, rubber or polymer, state , material	_____

AXLES & BRAKES

10.44	Front axle	Driven type (4WD) with guarded drive shaft (limited slip differential)	_____
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10.45	Rear axle	Differential lock, push button activation	_____
10.46	Brakes	Wet disk type with individual pedals simultaneous or independent operations	_____
10.47	Parking brake	Foot or hand operated, state type	_____

TRANSMISSION

10.48	Type	Power-shift transmission with torque convertor, manual shift with power reverser preferred, state	_____
10.49	Shifting	Fully synchronized	_____
10.50	Speeds forward	Four (4)	_____
10.51	Speeds reverse	Three (3)	_____
10.52	Power-shift	Direction reverser	_____

DIMENSIONS

10.53	Overall transport width	Approx. 7', state	_____
10.54	Overall width	Stabilizer spread, outside edge of pad, state	_____
10.55	Overall height (top of cab)	Approx. 8' 9", state	_____
10.56	Overall transport height	Approx. 11', state	_____
10.57	Overall transport length	Approx. 24', state	_____
10.58	Wheelbase	Approx. 84", state	_____
10.59	Operating weight (as bid)	Approx. 16,000lbs, (without attachments) state weight	_____
10.60	Turning radius	Curb clearance with brakes applied, state	_____

FRONT END LOADER

10.61	Lift capacity, full height	Approx. 6500lbs., state	_____
10.62	Bucket breakout force	Approx. 10,000lbs., state	_____
10.63	Dump clearance as bid	Bucket @ 45° approx. 105 inches, state	_____
10.64	Controls	Single lever with clutch disconnect button, return –to-dig and float	_____
10.65	Self-levelling bucket	With level indicator	_____

10.66	Wear plate (s)	Required to prevent bucket heel from rubbing on ground with bolt-on cutting edge in place	_____
10.67	Lashing ring	Heavy duty, steel weld-on hook with spring mounted clasp, top-center mounted at front of loader bucket	_____
10.68	Loader safety prop bar	Preferred	_____
10.69	Hydraulic function	3 function hydraulics	_____
10.70	Hydraulic quick attach	For loader bucket	_____
10.71	OEM ride control	state	_____

FRONT BUCKETS

10.72	General Material bucket	Approx. 92" width 1.32 yd ³ capacity, state	_____
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BACKHOE

10.73	Type	Centre pivot with extendable dipper-stick	_____
10.74	Maximum digging depth	Approx. 18', state digging depth	_____
10.75	Digging force	Bucket cylinder (SAE), with 24 inch bucket approx. 14,000lbs., state	_____
10.76	Dogging force	Crowd cylinder (SAE), with dipper-stick retracted approx. 9,000lbs., state	_____
10.77	Controls	SAE excavator style, pilot operated hydraulic joystick controls	_____
10.78	Multi-brand Quick coupler attachment bracket	For quick attachment of all buckets and hydraulic hammers, state make model being bid	_____
10.79	Attachment bracket	Permit use of two (2) bucket positions	_____
10.80	Attachment bracket	Permit bucket, bucket position changes and hydraulic hammer	_____
10.81	Certified lifting hooks	All buckets to be complete with certified lifting hooks	_____
10.82	Stabilizer pads (cemetery)	Oversized rectangle winter pads for stabilizers, with three separate spike pad areas within each rectangle	_____
10.83	Front counterweight	Supplied as to provide proper machine balance and roading characteristics	_____
10.84	Replaceable bushings and grease fittings	At backhoe pivot points, cylinder rod and closed ends, and bucket links	_____

10.85 Auxiliary hydraulics Couplers and controls shall be provided as required on all machines to accommodate hydraulic hammers and augers _____

10.86 Hydraulic thumb Factory installed, **state** _____

BACKHOE BUCKETS

10.87 32 inch cemetery dig bucket 32 inch heavy duty digging bucket with replaceable pin-on teeth, complete with required attachment pin(s) and certified lifting hooks _____

10.88 36 inch cemetery dig bucket 36 inch heavy duty digging bucket with replaceable pin-on teeth, complete with required attachment pin(s) and certified lifting hooks). Backhoe to be delivered with 36inch digging bucket (w/teeth) installed _____

OPERATOR CAB

10.89 Type-ROPS Roll-over protective structure complete with pressurized cab, OSHA certified or equal _____

10.90 Insulation and headliner For sound suppression and severe weather/climate _____

10.91 Floor covering Rubber matting, throughout _____

10.92 Seat Cushioned, adjustable bucket type with arm rests, cloth upholstery air suspension with retractable seat belt _____

10.93 Ride control Factory installed _____

10.94 All Windows Tinted safety glass with appropriate markings for all panes and opening type where applicable _____

10.95 Ignition keys Three (3) sets required per machine _____

10.96 Doors One (1) each side with spring assisted strut, lockable with common key _____

10.97 Interior rear-view mirror Adjustable _____

10.98 Windshield wipers Intermittent preferred, requires front and rear _____

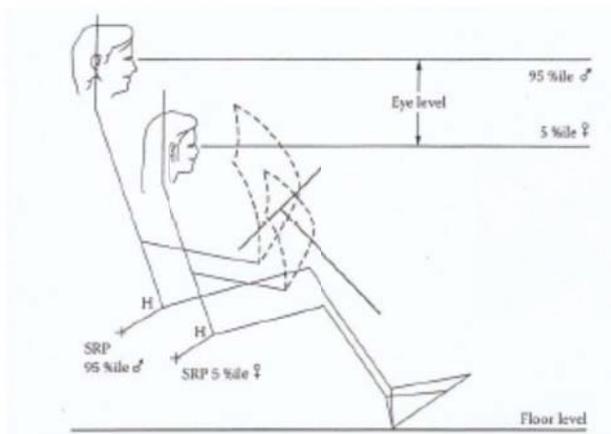
10.99 Heater/defroster Heavy duty, hot water type with multi-speed fan, capable of keeping all windows clear at -40⁰ C _____

10.100 Window fans Two (2) with guards _____

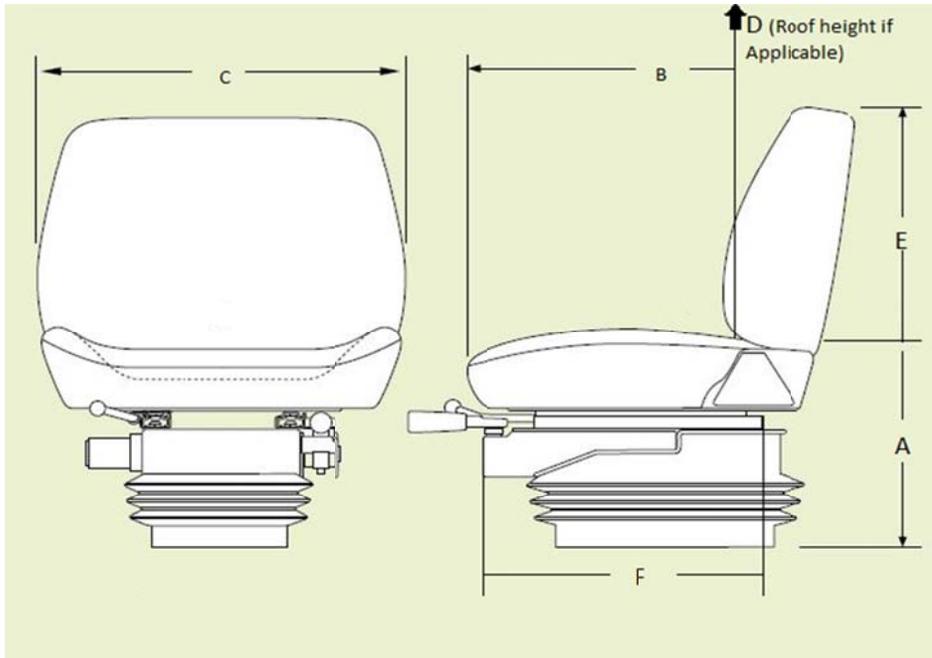
10.101	Air conditioning	Factory installed with under hood compressor. (Note: roof mounted air conditioners are not acceptable)	_____
10.102	Steps	Open grate style	_____
10.103	Toolbox	Lockable, state location	_____
10.104	Instrumentation	Coolant temperature-gauge with audible alarm. Engine oil pressure- gauge or warning light with audible alarm. Engine hour meter-non resettable type. Tachometer. Fuel gauge.	_____
10.105	Noise Level, interior	85 dB(A), measured in accordance with SAE J336, state noise level	_____
10.106	Fire extinguisher	Five (5) lbs. High volume ABC type, State location	_____

**OPERATOR STATION
ERGONOMICS**

10.107 Cab or station layout should provide a comfortable seating position for the 5th to the 95th percentile of personnel. Figure 1 below illustrates the variance between a 5th to a 95th percentile of North American males and females when seated.



10.108 Figure 2: Use the below diagram to answer the specifications for Operator Station Ergonomics.



10.109	Sitting height range from floor (where feet rest) (A)	State , seat height range in inches	_____
10.110	Seat length/depth (B)	State , seat length/depth in inches	_____
10.111	Seat width (C)	State , seat width in inches	_____
10.112	Cab height from seat to roof (if applicable) (D)	State , cab height range in inches	_____
10.113	Back rest height (E)	State , back rest height in inches	_____
10.114	Seat travel range (F)	State , seat travel in inches	_____
10.115	Include any other relevant ergonomic specifications and applicable range of adjustment		_____

GREASING SYSTEM

10.116	Greasing system	Groeneveld/CPL Systems Inc. complete CPL automatic greasing system including all required grease points on the flusher body, and automatic low level shut-off with in-cab red light indicator.	_____
10.117	Greasing points	State , quantity of greasing points	_____
10.118	Grease fittings	Readily accessible with remote grease zerks	_____

11.0 WARRANTY

11.1	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.	_____
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11.2	Basic coverage	(Complete Machine) Warranty 2 years, 2000 hours	_____
11.3	Power train	(Engine, Transmission) Warranty 2 years 2000 hours	_____
11.4	Hydraulics warranty	(Hydraulics) Warranty 2 years, 2000 hours	_____
11.5	Batteries warranty	(Batteries) Warranty 1 year	_____
11.6	Tires warranty	(Tires) Warranty 1 year	_____
11.7	Electrical warranty	(Electrical) Warranty 2 years, 2000 hours	_____

12.0 **DELIVERY**

- 12.1 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 WFMA 185 Tecumseh Street, Winnipeg MB. The successful bidder shall be notified by the Contractor Administrator the delivery address prior to issuance of the purchase order _____
- 12.2 Delivery Time: **Sixteen (16) calendar weeks** from the date of award. Equipment shall be delivered between 8:00 am and 3:00 pm on Business Days. _____
- 12.3 Delivery Contact: The Contractor shall contact the Contract Administrator prior to delivery of the equipment. _____
- 12.4 P.D.I: A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list _____

13.0 **MANUALS**

- 13.1 Manuals supplied under this contract. The manuals shall cover the complete equipment including all components thereof, CD is preferred where available. _____
- 13.2 The following manuals shall be supplied with the units when delivered:
- a) Operator's manual – Two (2) per unit (one operator 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. _____