

PART A

BID SUBMISSION

FORM A: BID
(See B7)

1. Project Title SUPPLY & DELIVERY OF LOADER MOUNTED SNOWBLOWERS

2. Bidder

Name of Bidder

Street

City

Province

Postal Code

(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

4. Definitions

All capitalized terms used in the Contract shall have the meanings ascribed to them in the General Conditions and D3.1 unless the context otherwise requires.

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 Purchase Order authorizing the commencement of the Work.

Template Version: G320040301

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 Submission.

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

In witness whereof 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 LOADER MOUNTED SNOWBLOWERS

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
1	Loader Mounted Snowblower	05040	Each	6	\$ _____	\$ _____
1a	Operator's Manual	05040	Each	7	\$ _____	\$ _____
1b	Parts, Repair and Technical Service Manuals	05040	Each	3	\$ _____	\$ _____
TOTAL BID PRICE (GST and PST extra) (in figures) \$ _____ (in words) _____ _____						

 Name of Bidder

TRADE-IN

ITEM NO.	SNOWBLOWER UNIT NUMBER	Spec. Ref.	UNIT PRICE
2	Tenco TC202 403-3720	05040 (Pg 13 of 13)	\$ _____
3	Tenco TC202 403-3722	05040 (Pg 13 of 13)	\$ _____
4	Tenco TC202 403-3723	05040 (Pg 13 of 13)	\$ _____
5	Fair 403-3732	05040 (Pg 13 of 13)	\$ _____
6	Blanchet 666TSP 403-3733	05040 (Pg 13 of 13)	\$ _____

FORM N: DETAILED SPECIFICATIONS 05040

LOADER MOUNTED SNOWBLOWER

(Street Maintenance)

1.0 SCOPE

- 1.1 These specifications describe the supply and delivery of self-contained, dual stage, heavy-duty snowblowers, suitable for mounting on the front of a John Deere 644E wheel loader with a Weldco Beales quick-coupler. This Bid Opportunity provides the opportunity for trade-ins of five (5) used City of Winnipeg snowblowers.
- 1.2 The loader mounted snowblower shall be furnished complete and ready for use. All parts not specifically mentioned, but which are required to complete and place the units in successful operation, shall be furnished as though specifically mentioned in these specifications. The complete units, 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 units.
- 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.

3.0 QUALIFICATIONS OF MANUFACTURER / CONTRACTOR

- 3.1 The Contractor shall be an authorized distributor/supplier of the snowblower equipment being bid.
- 3.2 Manufacturers of snowblowers having a minimum of five (5) continuous years of experience manufacturing snowblower equipment of the type being offered is preferred. A 1% Bid Advantage for each year of manufacture (up to 5%) will be offered as an indication of equipment performance and reliability.
- 3.3 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 snow removal 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 on snow removal equipment of the equipment being offered, and general service capabilities. A description of the service facility shall be provided within 3-calendar days upon request by the Contract Administrator.
- 3.4 If a suitable warranty facility is not available within 10 km of the boundaries of the City of Winnipeg, the Bidder may propose that warranty work be performed by the City of Winnipeg Repair Facility. 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 2005: \$68.00/hour regular time, \$95.00/hr overtime and callout.

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 ELIGIBLE MODELS

5.1 Eligible models are: **RPM-227**
Vohl DV-4000

5.2 State make and model being bid: _____

6.0 PERFORMANCE

6.1 The unit being bid shall be capable of consistent top performance of blowing snow up to a distance of 150 ft. and blowing windrows consisting of hard packed snow, ice and sand during the winter months that are normal to the City of Winnipeg. The unit being bid will also be required to blow, on occasion, windrows containing pieces of curb, rocks, tailpipes and mufflers at temperatures up to -40°C, i.e., during the winter environment that is normal to the City of Winnipeg.

7.0 WEIGHT AND DIMENSIONS

7.1 Overall weight – 9,500 lbs. approx., suitable and safe for use with a John Deere 644E wheel loader, state overall weight of unit being bid including Weldco Beales quick coupler, fully fuelled.

7.2 Centre of gravity from loader attachment point – 35 in. approx., state.

7.3 Overall height, with chute fully extended – state.

7.4 Overall width – 110 approx., state.

7.5 Overall depth, from front of machine to pivot point – state.

8.0 CAPACITY

8.1 Production capacity – 2,500 tons per hour min., state capacity.

9.0 ENGINE & ENGINE EQUIPMENT

9.1 Type – 6 cyl., 4-cycle, 8-10L class diesel engine, CAT C9 preferred, state make and model being bid.

- 9.2 Horsepower – 275 hp gross min., state. _____
- 9.3 Torque – 875 lb-ft min., state. _____
- 9.4 Liquid cooled with radiator and fan, antifreeze to -40°C. _____
- 9.4.1 Fan clutch – thermostatically controlled. _____
- 9.5 Engine shutdown – low oil pressure/high water temperature, Kysor Model 9042 or factory installed equivalent. _____
- 9.6 Air cleaner – heavy duty replaceable element, dry type with pre-cleaner, intake to be protected from rain, ice and snow. _____
- 9.7 Air intake warmer – required. _____
- 9.8 Block heater – 110 Volt, immersion type. _____
- 9.9 Electric start system – 12 Volt starter, thermally protected. _____
- 9.9.1 Starter switch – keyed with three (3) sets of ignition keys. _____
- 9.10 Batteries – 2250 CCA combined capacity min.. _____
- 9.11 Alternator – 75 amp min., state make, model and output. _____
- 9.12 Exhaust – residential muffler with rain cap, overall exhaust height to be at or near wheel loader roof height when blower is in working position. _____
- 9.12.1 Muffler/exhaust shall be in line with chute to optimize visibility. _____
- 9.13 Clutch – over centre, hydraulically controlled, twin disc SP-211 or equal, state make and model. _____
- 9.13.1 Engine start-up shall not occur with clutch engaged. _____
- 9.13.2 Clutch shall not engage with engine rpm higher than idle. _____
- 9.14 Engine cowling to be ergonomically designed to allow easy access for general maintenance and servicing. _____
- 10.0 BLOWER HEAD**
- 10.1 Type – two (2) stage with dual augers. _____
- 10.2 Cutting width – 108 in. min., steering vanes not acceptable. _____
- 10.3 Cutting height – 57 in. min., state. _____
- 10.3.1 Height to top of cutting knives – state. _____
- 10.4 Material – 10 gauge steel min. on all high stress areas. _____

10.5 Frame – steel frame, all welded construction.

11.0 IMPELLER

11.1 Diameter – 38 in. min., state diameter.

11.2 Blades – five (5) or six (6) concave blades, $\frac{3}{8}$ in. high tensile steel, bolt-on, easily replaceable.

11.3 Impeller casing – min. $\frac{1}{2}$ in. high tensile AR steel plate or equal, state material and thickness.

11.3.1 Hydraulic rotation – shall permit flat discharge to the right and 30° discharge to the left.

11.4 Impeller speed – 440 rpm approx..

11.5 Impeller shall be shear bolt protection, easily accessible, state size and Grade of shear bolts.

12.0 AUGERS

12.1 Type – dual augers, 1-piece design, full flights, dynamically balanced.

12.2 Dimensions:

i) Diameter – 26 in. min., state.

ii) Flights - $\frac{3}{8}$ in. thick min. welded to min. 4 in. diameter tubing.

12.3 Ice cutters – bolt-on, reversible type.

12.4 Augers to be equipped with shear bolt protection, easily accessible, state size and Grade.

13.0 DISCHARGE CHUTE

13.1 Type – three (3) section design, hydraulically adjustable, suitable for loading into a dump trailer, state material and thickness.

13.2 Chute extension – hydraulically extendible through double acting cylinder(s).

13.3 Diameter – 16 in. min., state.

13.4 Rotation – 300° min., state.

13.5 Snow deflector – hydraulically adjustable through double acting cylinder(s).

13.6 Discharge chute shall have a contoured back design to eliminate plugging.

13.7 Chute liner – min. $\frac{3}{8}$ in. high tensile AR steel plate or equal, state material and thickness.

14.0 GAUGES & CONTROLS

14.1 Emergency engine stop button – permanently installed on the blower head.

14.2 The following controls shall be supplied with a quick disconnect, weather resistant cable of sufficient length to be placed through loader window for operation from loader cab:

i) Engine coolant temperature gauge.

ii) Engine oil pressure gauge.

iii) Ammeter/voltmeter.

iv) Ignition and engine stop switch.

v) Clutch engage/disengage, electrical.

vi) Throttle increase/decrease, electrical type with joystick.

vii) Spout rotation left and right.

viii) Snow deflector in/out.

ix) Chute extension control.

x) Tachometer.

xi) Hourmeter.

xii) Fuel gauge.

14.3 The Contractor shall be responsible for all parts and labour costs associated with the installation of controls, mounting brackets, cables, cable ties etc. in the City of Winnipeg wheel loaders. Six (6) City owned wheel loaders will be made available in Winnipeg for the installations.

15.0 ELECTRICAL AND LIGHTING EQUIPMENT

15.1 Type – 12-Volt, negative ground.

15.2 Headlights – two (2) sealed beam lights c/w high and low beam, shock mounted on blower head, on/off switch located on control panel.

15.2.1 Headlights to be enclosed, protected from damage.

15.3 All electrical connectors shall be crimped and soldered, then sealed using heat shrink tubing.

15.4 All joining of wires shall be soldered and sealed using heat shrink tubing or approved OEM weathertight connections (crimp on electrical connectors for joining wires are not acceptable).

15.5 All electrical cable supplied shall be shielded, low temperature rated, anti-scuff, industrial type cables, Tectran 742A2 Articflex or equal.

15.6 Any holes required to run wires through shall be drilled (not punched), grommetted and sealed as required.

16.0 HYDRAULIC SYSTEM

16.1 Shall be complete with hydraulic pump, hydraulic filter, control valves, hydraulic motor, hydraulic cylinders and reservoir as required.

16.2 Oil reservoir – state capacity.

16.2.1 Level gauge – sight gauge.

16.2.2 Oil filler – top mounted with strainer.

16.2.3 Oil filler and breather to be readily accessible, protected from environment and blowing snow.

16.3 Valves – electric over hydraulic type, solenoid actuated, fully protected in all weather enclosure(s).

16.3.1 Relief valve – state setting.

16.4 Hydraulic hoses – wire braid reinforced, rated for system operating pressure with 4 to 1 safety factor for burst pressure.

16.4.1 Hydraulic hoses to be protected at all wear and scuff locations.

16.4.2 Hose fittings – hydraulic full flow, crimp-on, (non-reusable).

16.4.3 Black iron fittings not acceptable on pressure lines.

17.0 FUEL SYSTEM

17.1 Tank capacity – 320 L capacity min., fully fuelled upon delivery.

17.2 Fuel filter – required with Racor or equal heated and drainable water separator.

18.0 MOUNTING

18.1 Unit shall be capable of front mounting on a John Deere 644E wheel loader with a Weldco Beales quick coupler.

18.2 Hitch plate – nominal 1 in. thick solid steel, (laminated plates unacceptable) installed to chassis frame, removable with Grade-8

bolts. State details of hitch plate assembly.

19.0 MISCELLANEOUS

19.1 All grease fittings for the entire snowblower shall be readily accessible or shall be equipped with remote grease zerks as required.

19.2 Wear shoes – carbide steel, two (2), 3/4 in. thick approx., replaceable.

19.3 Scrapper blades – carbide steel, min. six (6) replaceable, 1/4 in. thick approx..

19.4 Weigh scale ticket – the Contractor shall provide a certified weigh scale ticket upon delivery of the completed unit. The scale ticket shall include the unit fully operational including a full tank of fuel.

20.0 WELDING

20.1 The Manufacturer shall be CWB Certified, and/or ASME qualified or have Journeyman qualifications, specifically with respect to welding on quick coupler and hitch plate. All welding shall be of excellent workmanship and appearance, and shall conform to CSA Standard W59.

20.2 All welds shall be continuous welds where applicable.

20.3 The manufacturer shall have a documented quality control program in effect including inspection of welds by a qualified inspector.

21.0 FINISH

21.1 All steel components shall be sandblasted, properly cleaned, primed and finished with Endura EP32 Intermix Epoxy Primer then finished with 3-5 mils construction yellow Endura EX-2C Topcoat.

22.0 MANUALS

22.1 Manuals supplied under this contract shall be in English and shall be specifically for the snowblower supplied. General purpose manuals are not acceptable. The manuals shall cover the complete equipment and all components thereof including the engine. CD is preferred where available.

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

i) Operator's manual – one (1) per unit plus one (1) additional manual.

ii) Parts, repair and service technical manuals – three (3) complete sets including preventative maintenance schedules. CDs are preferred.

23.0 TRAINING

23.1 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 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.

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

24.0 PERFORMANCE RELIABILITY

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

24.2 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.

24.3 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.

25.0 WARRANTY

25.1 The warranty for the **entire unit** shall cover the complete equipment, and all parts thereof against any defects of workmanship, construction and materials, for a period of not less than **five (5) years**. Any article that has become defective during said warranty period and has not proven to have been caused by negligence on the part of the user shall be repaired or replaced at no cost to the City. The warranty shall be effective from the date the equipment is put into service by the City of Winnipeg.

25.1.1 A new five (5) year warranty period shall be provided for any article that is repaired or replaced under the terms of the "repeat failures" clause (Section 24.0 Performance Reliability). The new warranty period shall be effective from the date of acceptance of the repaired or replaced article.

FORM O: QUESTIONNAIRE

1.0 **STATE** the delivery time of the complete order from the date of official notification of award: (See D5.1)

2.0 **LIST** any significant features that will be supplied standard on the unit being offered, but were not specifically mentioned in the Detailed Specifications:

3.0 **LIST** three current users of the offered model including names and telephone numbers:

4.0 **STATE** the location of the service facility:

5.0 Does the equipment being offered meet or exceed the minimum requirements of the Detailed Specifications?

6.0 **LIST** any deviations that might be considered less than equal to the Detailed Specifications:

TRADE-IN

1.1 This Bid Opportunity includes the provision of a “trade-in” of five (5) used loader mounted snowblowers. If the Bidder decides to include Bids for the used snowblowers, all prices submitted shall be listed on Form B: Prices. All machines listed below were purchased new, and used solely by The City of Winnipeg. A brief description of the equipment is as follows:

Tenco TC202

- 1999 Models
- Cummins 8.3L engine, 275 hp

Unit No.	Model Year	Serial Number	Operating Hours
403-3720	1999	12288	474
403-3722	1999	12441	535
403-3723	1999	12065	942

Fair

- 1992 Model
- John Deere6466A engine, 275 hp approx.

Unit No.	Model Year	Serial Number	Operating Hours
403-3732	1992	1C810HT1385	2964

Blanchet 666TSP

- 1986 Model
- Ford 4.9L gasoline engine, 180 hp approx.

Unit No.	Model Year	Serial Number	Operating Hours
403-3733	1986	688104H	536

1.2 To evaluate the condition of used machines, Bidders may view the equipment at their discretion. Viewing of the machines can be arranged within one (1) calendar week prior to the Submission Deadline of the Bid Opportunity by contacting Mr. Eugene Romaniuk of the Fleet Management Agency, telephone number 204-986-4181.

1.3 Bidders are not required to make an offer on these machines. They can choose to bid on some or all of the pieces of equipment. The Trade In option will have no impact on the award for new equipment as contained in this tender. The City reserves the right not to exercise the Trade In Option of this tender without having to provide justifications.