

**FORM A: BID**  
(See B7)

1. Contract Title SUPPLY & DELIVERY OF 125 HP PORTABLE BRUSH CHIPPERS

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 125 HP PORTABLE BRUSH CHIPPERS**

**UNIT PRICES**

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QTY.	UNIT PRICE	AMOUNT
1.	125 HP Portable Brush Chipper	10005	Each	4	\$ _____	\$ _____
2.	Parts, Repair, Service Manuals	10005 (16.3)	Set	2	\$ _____	\$ _____
TOTAL BID PRICE (GST and MRST extra) (in figures) \$ _____ (in words) _____ _____						

\_\_\_\_\_  
 Name of Bidder

## FORM N: DETAILED SPECIFICATIONS 10005

### 125 HP PORTABLE BRUSH CHIPPER (Forestry Branch)

#### 1.0 SCOPE

- 1.1 These specifications describe the supply and delivery of a minimum 125 hp, trailer mounted, portable brush chipper.
- 1.2 The unit shall be furnished complete and ready for use. All parts not specifically mentioned, but which are required to complete and place the unit into 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 completed unit and all its components shall comply with all C.M.V.S.S. and Manitoba Highway Traffic Act regulations and requirements.

#### 3.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

- 3.1 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.
- 3.2 Each bidder is required to fill in every blank. **Failure to do so may be used as a basis for rejection of bid.**

#### 4.0 PERFORMANCE

- 4.1 Shall be a heavy duty, trailer mounted brush chipper capable of chipping branches, tree limbs and logs up to 15 in. in diameter, and loading into a dump truck during the summer and winter environments which are normal to the City of Winnipeg. \_\_\_\_\_

#### 5.0 MAKE AND MODEL

- 5.1 **State** year, make and model of unit being bid. \_\_\_\_\_

#### 6.0 WEIGHT AND DIMENSIONS

- 6.1 **State** the following:

- i) Overall length. \_\_\_\_\_
- ii) Overall width. \_\_\_\_\_
- iii) Track width. \_\_\_\_\_
- iv) Operating weight (fully fuelled). \_\_\_\_\_
- v) Tongue weight. \_\_\_\_\_

**7.0 CHASSIS**

- 7.1 Frame – heavy duty metal construction, state frame type and dimensions. \_\_\_\_\_
- 7.2 Axle – heavy duty, 7,000 lbs. capacity, **state** rating. \_\_\_\_\_
- 7.3 Suspension – heavy duty springs, sized to match GTWR, **state** spring type and rating. \_\_\_\_\_
- 7.4 Tires – to match GTWR, LT235/75R16 approx., Load Range E, rib style tread, **state** size and load rating. \_\_\_\_\_
- 7.4.1 Rims – steel, automotive style. \_\_\_\_\_
- 7.4.2 Spare rim and tire – one (1), identical to rims and tires being bid. \_\_\_\_\_
- 7.4.3 Wheel nut indicators – required on every second wheel nut. \_\_\_\_\_
- 7.5 Fenders – required, steel, heavy duty, exterior portions to be finished with Line-X heavy duty non-slip coating. \_\_\_\_\_
- 7.6 Jack leg – heavy duty, crank down, located on trailer tongue. \_\_\_\_\_
- 7.6.1 Foot pad – stationary, 5" x 5" approx. \_\_\_\_\_
- 7.7 Brakes – electric brakes with breakaway switch. \_\_\_\_\_
- 7.8 Pintle draw bar – heavy duty, height adjustable draw bar w/3 in. ID, sized to match GTWR, Dico Model 20 or equivalent. \_\_\_\_\_
- 7.9 Safety chains and eye hooks – shall conform with CMVSS and Manitoba Highway Traffic Act. Eye hooks to be complete with spring closures. \_\_\_\_\_
- 7.10 Grease fittings – easily accessible including remote grease lines where applicable. \_\_\_\_\_
- 7.11 Tool box – lockable. \_\_\_\_\_
- 7.12 Conspicuity tape – Truck-Lite 98127 or equal, affixed 360° around unit. \_\_\_\_\_
- 7.13 Fire extinguisher – 5 lb. ABC type, required with mounting bracket, readily accessible. Exact mounting location to be determined at time of installation. \_\_\_\_\_

## **8.0 ENGINE AND ENGINE EQUIPMENT**

8.1 Engine – four cylinder, liquid cooled, TIER III diesel engine. **State** make and model being bid.

8.1.1 Horsepower – 125 gross hp minimum, **state**.

8.1.2 Displacement – **state**.

8.1.3 Torque – state max. torque @ rated rpm.

8.2 Engine shut-down – required, LOP, HWT, factory installed.

8.3 Radiator – heavy duty with guard rails and removable radiator screen.

8.3.1 Coolant – extended life, rated for -40°C.

8.4 Ignition – keyed ignition c/w three (3) sets of keys.

8.5 Air cleaner – dry cartridge type with restriction indicator..

8.6 Fuel filter – spin-on type with water separator.

8.7 Fuel tank – 170 L capacity, required with sight gauge, fully fuelled upon delivery.

8.8 Oil filter – full flow, spin-on type.

8.9 Clutch – state type and engagement.

8.10 Exhaust – mufflered with rain cap or bend and 40° cut-off.

8.11 Block heater – 110 V immersion type.

8.12 Gauges – the following gauges shall be supplied:

i) Oil pressure.

ii) Coolant temperature.

iii) Hourmeter – non-resettable type.

## **9.0 CUTTING SYSTEM**

9.1 Type – drum style.

9.2 Drum size – 22" W x 22" Ø, **state**.

9.3 Speed – 1950 rpm.

9.4 Knives – two (2), A8 chipper steel.

## **10.0 INFEEED CHUTE**

10.1 Type – heavy duty steel construction with safety shut-off bar located on three (3) sides of infeed chute, noticeably labelled.

- 10.2 Infeed throat – 15" x 20" approx., **state**. \_\_\_\_\_
- 10.3 Feed table – 30" L x 27" H approx., **state**. \_\_\_\_\_
- 10.4 Rear mounted flags – two (2), red, spring mounted at rear of unit. Exact mounting location to be determined at time of installation. \_\_\_\_\_
- 11.0 HYDRAULICS**
- 11.1 Feed system – reversible. \_\_\_\_\_
- 11.2 Feed rate – 120 fpm min. \_\_\_\_\_
- 11.3 Feed wheels – two (2), hydraulically driven, supported by heavy duty bearings. \_\_\_\_\_
- 11.3.1 Unit shall have an engine speed monitoring system to automatically control the feed to match engine rpm. \_\_\_\_\_
- 11.4 Feed system governor – shall be capable of stopping the feed system at a preset engine rpm less than full throttle speed. Governor shall automatically restart the feed system once the engine reaches full rpm. \_\_\_\_\_
- 11.5 Hydraulic pump – **state** type. \_\_\_\_\_  
\_\_\_\_\_ psi \_\_\_\_\_ gpm @ \_\_\_\_\_ rpm
- 11.6 Hydraulic oil reservoir – chassis frame mounted, steel construction, baffled as required, c/w breather type filler cap with filter, filler strainer and sight gauge. \_\_\_\_\_
- 11.6.1 Capacity – 20 US gallon approx., **state** capacity. \_\_\_\_\_
- 11.6.2 Suction strainer – 100 micron, replaceable, in-tank mounted. \_\_\_\_\_
- 11.6.3 Drain plug – ½ in. diameter. \_\_\_\_\_
- 11.6.4 Reservoir shall be clearly labelled "Hydraulic Oil" with a permanent type, engraved style label. \_\_\_\_\_
- 11.7 Return line filter – replaceable, spin-on cartridge type. \_\_\_\_\_
- 11.8 Shut-off valve – ball type, located between reservoir and inlet side of pump, secured in open position with a bracket and bolt. \_\_\_\_\_
- 11.9 Hydraulic hoses – rated for system pressure with 4 to 1 safety factor for burst pressure. \_\_\_\_\_
- 11.9.1 Hydraulic hoses to be protected at wear and scuff locations. \_\_\_\_\_
- 11.9.2 Hose fittings – hydraulic full flow, crimp-on (non-reusable) type. \_\_\_\_\_
- 11.9.3 Black iron fittings are not acceptable on pressure lines. \_\_\_\_\_
- 11.9.4 All hydraulic hoses shall be neatly routed and secured with black or UV protected plastic tie wraps where necessary. \_\_\_\_\_

**12.0 DISCHARGE CHUTE**

12.1 Length – shall be capable of discharging chips for truck loading, 80 in. approx., **state** length.

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12.2 270° swivel minimum, **state**.

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12.3 Chip deflector – adjustable.

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**13.0 ELECTRICAL AND LIGHTING**

13.1 All lighting shall conform to CMVSS (latest revision) and Manitoba Highway Traffic Act requirements.

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13.2 Electrical system – 12-Volt, negative ground system.

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13.3 Starter – electric.

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13.4 Battery – 850 CCA minimum.

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13.5 Trailer plug – 6-pole, Pollak 11-605 plug with cableguard or equivalent plug with cableguard.

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13.6 Combination stop, turn and taillights – Truck-Lite 44302R or equivalent LED lights, one (1) per side with 40700 mounting grommets, fully enclosed at rear. Lights to be complete with heavy duty taillight covers.

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13.7 Clearance lamps – Truck-Lite 10208R and 10208Y with 10700 mounting grommets or equivalent LED lights.

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13.8 3-light cluster – required, LED.

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13.9 Junction box – Truck-Lite 50400 or equal c/w necessary compression fittings, located on inside of trailer frame, protected from damage.

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13.10 Licence plate lamp – Truck-Lite 15040 or equivalent LED lamp, complete with licence plate bracket.

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13.11 Warning beacon – Preco 4261A, 360° visibility, wired through chipper ignition switch, fused, c/w heavy duty on-off switch, labelled with a permanent type, engraved style label.

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13.11.1 Warning beacon mount – aluminum pipe mounted or equivalent for 360° visibility. Exact design and mounting location to be determined at time of installation.

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13.12 All wiring (including accessories, etc.) shall be colour coded, loomed, properly secured and protected from damage. Loom is required from trailer plug to taillights.

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13.13 All joining of wires and electrical connections (including trailer plug wiring) shall be crimped and soldered, then sealed with heat shrink tubing. Crimp-on electrical connectors for joining wires are not acceptable.

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13.14 Any holes required to run wires through chassis, steel sections, etc. shall be drilled (not punched), grommeted and sealed.

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**14.0**      **NOISE LEVEL**

14.1      Decibels – not to exceed 85 decibels @ 50 ft., 360° around unit. \_\_\_\_\_

**15.0**      **COLOUR AND FINISH**

15.1      The entire unit shall be properly primed and prepared, then painted the manufacturer's standard colour with two (2) coats of polyurethane enamel, Dupont Imron, Endura paint process or equivalent. \_\_\_\_\_

15.2      Line-X – complete draw bar and exterior of fenders to be coated with black Line-X heavy duty non-slip coating, 120 mil thickness. \_\_\_\_\_

**16.0**      **MANUALS**

16.1      The following manuals shall be supplied with the unit when delivered. Manuals shall be in English and shall cover the complete equipment. \_\_\_\_\_

16.2      Operator's manual – one (1) per machine. \_\_\_\_\_

16.3      Parts, repair and technical service manuals including preventative maintenance schedules for life of the unit – CDs preferred, quantity as per Form B: Prices. \_\_\_\_\_

**17.0**      **DELIVERY**

17.1      The unit shall be serviced, ready for operation and delivery F.O.B. with the freight prepaid to the City of Winnipeg, Winnipeg Fleet Management Agency, 185 Tecumseh Street, Winnipeg, Manitoba within **eighteen (18) calendar weeks** from the date of official notification of award of Contract. The Contractor shall contact the Contract Administrator prior to delivery of the equipment. Equipment shall be delivered within 8:00am and 3:00pm on Business Days. \_\_\_\_\_

17.2      The Contractor shall fax all equipment serial numbers, hours to the Contract Administrator one (1) calendar week prior to delivery. \_\_\_\_\_

17.3      A pre-delivery inspection shall be performed by the Contractor on all equipment. \_\_\_\_\_

**18.0**      **TRAINING**

18.1      Operator training – the Contractor shall be required to provide **two (2) Business Days** of training, in Winnipeg by qualified staff, for City of Winnipeg operating personnel. All costs associated with the training, shall be at the Contractor's expense. The training sessions shall be sufficient in duration and shall provide adequate familiarization and orientation of the equipment, to the satisfaction of the Contract Administrator. \_\_\_\_\_

18.2      Mechanical training – the Contractor shall be required to provide **one (1) Business Day** of training, in Winnipeg by qualified staff, for City of Winnipeg maintenance personnel. All costs associated with the training, shall be at the Contractor's expense. The training session shall be sufficient in duration and shall provide adequate familiarization and orientation of the equipment, to the satisfaction of the Contract Administrator. \_\_\_\_\_

18.3 Training materials and applicable manuals or on-line training information shall be provided by the Contractor to the Operator Training Branch of Public Works at the earliest possible opportunity, no later than 4-weeks prior to delivery of the equipment and related attachments. The training materials shall be sent preferably in electronic format and hard copy. Training videos shall be supplied on either CD or DVD format.

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18.3.1 Training materials shall be sent to:

Public Works Human Resources Division  
Operator Training Branch  
2<sup>nd</sup> Floor, Building "B", 102-1155 Pacific Ave.  
Wpg. MB R3E 3P1

E-mail: [pwd-opertrain@winnipeg.ca](mailto:pwd-opertrain@winnipeg.ca)

Attn: Equipment Training Coordinator – Pending Equipment Delivery

## 19.0 **PERFORMANCE RELIABILITY**

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

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19.2 The term "*repeat failures*" as used herein is defined to mean that the same component, assembly, or sub-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, assembly, or sub-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.

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19.3 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.

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## 20.0 **WARRANTY**

20.1 For the purpose of warranty repairs, 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 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 brush chipper equipment, and general service capabilities. A description of the service facility shall be provided within 3-Calendar Days upon request of the Contract Administrator.

20.2 If a suitable warranty facility is not available within 10 km of the boundaries of the City of Winnipeg, the Bidder may propose that warranty work be performed by the City of Winnipeg Repair Facilities. Any work performed by City of Winnipeg Repair Facilities 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 2010: \$82.00/hr regular time, \$112.00/hr overtime and callout).

- 20.3 The Contractor shall warrant **all equipment** (excluding consumables) 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 3000 hours** from the date the equipment is put into service by the City of Winnipeg.
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- 20.4 Upon delivery of the equipment, the Contractor shall provide a written warranty claim procedure with all applicable forms and contact personnel.
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