

FORM A: BID
(See B7)

1. Contract Title SUPPLY & DELIVERY OF CHIPPERS

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 B8)

SUPPLY & DELIVERY OF CHIPPERS

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	QUANTITY	UNIT PRICE
1.	70-75 gross hp chipper	13008	each	2	
2.	130 gross hp chipper	13009	each	1	
3.	170-175 gross hp chipper	13010	each	2	

Name of Bidder

FORM N: DETAILED SPECIFICATIONS 13008

1.0 **DESCRIPTION OF EQUIPMENT-**

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

2.0 **OTHER SPECIFICATIONS AND STANDARDS-**

- 2.1 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 2.2 The **chippers and all its components and attachments** shall comply with the applicable regulations:

Highway Traffic Act = <http://web2.gov.mb.ca/laws/statutes/ccsm/h060e.pHP>

Manitoba Motor Vehicle Act = <http://www.tc.gc.ca/acts-regulations/GENERAL/M/mvsa/menu.htm>

Canadian Motor Vehicle Safety Standards, CMVSS = <http://www.gnb.ca/0062/regs/83-163.htm>

Transport Canada = <http://laws.justice.gc.ca/en/notice/index.html?redirect=%2Fen%2FM-10.01%2F250448.html>

National Safety Mark, NSM = <http://www.tc.gc.ca/actsregulations/GENERAL/M/mvsa/regulations/mvsrg/001/mvsr3-5.html>

Manitoba/Winnipeg Safety and Health Act, Parts 12, 22 = <http://web2.gov.mb.ca/laws/statutes/ccsm/w210e.pHP> and <http://www.gov.mb.ca/labour/safety/>

Canadian Standards Association, CSA = <http://www.csa.ca/about/Default.asp?language=english>

Under Writers of Canada, U/L = <http://www.ulc.ca/>

Society of Automotive Engineers, SAE = http://en.wikipedia.org/wiki/Society_of_Automotive_Engineers

Occupational Health and Safety Regulation (British Columbia) 188/2011, Part 12. = <http://www2.worksafefbc.com/publications/ohsregulation/Part12.asp>

- 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 and service, the Bidder shall have an authorized service facility located within 10 km of the boundaries of the City of Winnipeg. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered. Bidders shall provide a description of the service facility including, but not limited to, number of

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

4.0 REFERENCES-

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

5.0 MAKE & MODEL-

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

6.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS-

6.1 Each bid will be evaluated based on adherence to all terms, conditions and requirements outlined in the Bid Opportunity package.

6.2 All items in these specifications must be answered indicating compliance or non-compliance. **BIDDERS SHALL STATE "YES" FOR COMPLIANCE OR STATE DEVIATION**, or give reply where requested to do so. Deviations shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.

6.3 **EACH BIDDER IS REQUIRED TO FILL IN EVERY BLANK. FAILURE TO DO SO MAY BE USED AS A BASIS FOR REJECTION OF BID**

7.0 PERFORMANCE RELIABILITY-

7.1 The responsibility for the design of the **chippers and associated attachments**, its performance and reliability shall rest upon the Contractor.

7.2 The term "repeated failures" as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the vehicle inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, subassembly, or assembly. Minor items or ordinary service adjustments are not included, or considered under the scope of "repeated failures", as well as other factors, such as operational damage due to accidents, misuse or lack of proper maintenance, service and lubrication attention by not following the manufacturer's preventative maintenance schedule.

7.3 Where the **chippers and associated attachments** develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.

7.4 **The equipment shall be heavy duty, trailer mounted brush chippers capable of chipping branches, tree limbs and logs up to 10 inches in diameter, loading into a dump truck and capable of consistent top performance year-round 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 **chippers and associated attachments** shall have five (5) years continuous experience manufacturing chippers and associated attachments.

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

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

10.0 NATIONAL SAFETY MARK- (IF APPLICABLE)

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

STATE (NSM) #- _____

11.0 MANITOBA SAFETY INSPECTION- (IF APPLICABLE)

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

12.0 SPECIFICATIONS-

WEIGHT AND DIMENSIONS

12.1 **State** the following:

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

CHASSIS

12.2 Frame – heavy duty metal construction, **state** frame type and dimensions. _____

12.3 Axle – heavy duty, 5200 lbs. capacity, **state** rating. _____

12.4 Suspension – rubber torsion, sized to match GTWR _____

12.5 Tires – to match GTWR, ST235/80R16LRE approx., Load Range E, rib style tread, **state** size and load rating. _____

- 12.6 Rims – steel, automotive style. _____
- 12.7 Spare rim and tire – one (1), identical to rims and tires being bid. _____
- 12.8 Wheel nut indicators – required on all wheel nuts. _____
- 12.9 Fenders – required, steel, heavy duty, exterior portions to be finished with Line-X heavy duty non-slip coating. _____
- 12.10 Jack leg – heavy duty, crank down, located on trailer tongue. _____
- 12.11 Foot pad – stationary, 3" x 5". _____
- 12.12 Brakes – electric brakes with breakaway switch. _____
- 12.13 Pintle draw bar – heavy duty, height adjustable draw bar w/3 in. ID, sized to match GTWR, Dico Model 20 or equivalent. _____
- 12.14 Safety chains and eye hooks – shall conform with CMVSS and Manitoba Highway Traffic Act. Eye hooks to be complete with spring closures. _____
- 12.15 Tool box – lockable. _____
- 12.16 Conspicuity tape – Truck-Lite 98127 or equal, affixed 360° around unit. _____
- 12.17 Fire extinguisher – 5 lb. ABC type, required with mounting bracket, readily accessible. **State** location- _____

ENGINE AND ENGINE EQUIPMENT

- 12.18 Engine – four cylinder, liquid cooled, TIER IV diesel engine. **State** make and model being bid- _____
- 12.19 Horsepower – 70-75 gross hp, **state**- _____
- 12.20 Displacement – **state**. _____
- 12.21 Torque – **state** max. torque @ rated rpm. _____
- 12.22 Radiator – heavy duty with guard rails and removable radiator screen. _____
- 12.23 Coolant – extended life, rated for -40°C. _____
- 12.24 Ignition – keyed ignition c/w three (3) sets of keys. _____
- 12.25 Air cleaner – dry cartridge type. _____
- 12.26 Fuel filter – spin-on type with water separator. _____
- 12.27 Fuel tank – 90-100 L capacity with sight gauge, fully fuelled upon delivery. _____
- 12.28 Oil filter – full flow, spin-on type. _____

12.29 Clutch – 13” spring-loaded automotive style and manual lever engagement.

12.30 Exhaust – muffler with rain cap or bend and 40° cut-off.

12.31 Block heater – 110 V immersion type.

12.32 Gauges – the following gauges shall be supplied:

i) Fuel gauge.

ii) Hour-meter – non-resettable type.

CUTTING SYSTEM

12.33 Drum size – 20" W x 20" Ø, **state-**

12.34 Speed – 2000 rpm.

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

INFEED CHUTE

12.36 Type – heavy duty steel construction with four position upper feed control bar, noticeably labeled. In-feed chute shall as standard have a safety bottom stop feed bar and reinforced rear rubber in-feed safety curtain, positioned to cover entire in-feed opening.

12.37 Infeed throat – 12" x 17" approx., **state-**

Feed table – 32" L x 26" H approx., **state-**

HYDRAULICS

12.38 Feed system – reversible.

12.39 Feed rate – 105 fpm .

12.40 Feed wheels – one (1), hydraulically driven, supported by heavy duty bearings. **State type**

12.41 Unit shall have an engine speed monitoring system to automatically control the feed to match engine rpm.

12.42 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.

12.43 Hydraulic pump – **state** psi, gpm @ rated rpm.

12.44 Return line filter – replaceable, spin-on cartridge type.

12.45 Hydraulic hoses – rated for system pressure with 4 to 1 safety factor for burst pressure.

12.46 Hydraulic hoses to be protected at wear and scuff locations.

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

12.48 Black iron fittings are not acceptable on pressure lines. _____

12.49 All hydraulic hoses shall be covered, neatly routed and secured with plastic tie wraps where necessary. _____

DISCHARGE CHUTE

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

12.51 270° swivel, **state-** _____

12.52 Chip deflector – adjustable. _____

ELECTRICAL AND LIGHTING

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

12.54 Electrical system – 12-Volt, negative ground system. _____

12.55 Starter – electric. _____

12.56 Battery – 550-600 CCA. _____

12.57 Trailer plug – 6-pole, Pollak 11-605 plug with cable guard or equivalent plug with cable guard. _____

12.58 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. _____

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

12.60 3-light cluster – required, LED. _____

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

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

12.63 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. _____

12.64 Warning beacon brush guard – required. _____

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

12.66 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. _____

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

NOISE LEVEL

- 12.68 Decibels – 85 decibels max. @ 50 ft., 360° around unit.
-

COLOUR AND FINISH

- 12.69 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.
-

13.0 WARRANTY

- 13.1 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. Warranty- (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.
-

14.0 TRAINING-

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

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

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

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

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

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

Training Aides:

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

What is the recommended minimum training duration for: _____

Primary unit: _____

For major attachments (if applicable): _____

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

For the primary unit: _____

For major attachments (if applicable): _____

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

102-1155 Pacific Avenue
Winnipeg, MB
R3E 3P1

Leanne Guertin
Equipment Operator Training Consultant

Cell: 204-451-3793

Contact e-mail: lguertin@winnipeg.ca _____

15.0 DELIVERY-

- 15.1 Delivery Point- The complete unit shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.I.V.S. (if applicable) to the WFMA 185 Tecumseh Street, Winnipeg MB. _____

- 15.2 Delivery Time- Within **ten to twelve (10-12) calendar weeks** from the date of official notification of award of contract. Equipment shall be delivered between 8:00 am and 3:00 pm on Business Days. _____

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

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

16.0 MANUALS-

- 16.1 Manuals supplied under this contract. The manuals shall cover the complete equipment including all components thereof, CD is preferred where available. _____

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

- a) Operator's manual – Two (2) per unit (one operators manual shall be sent to the Equipment Operator Training Branch _____)
- b) Parts and service manuals – one (1) complete sets including preventative maintenance schedules. CDs are preferred. _____

FORM N: DETAILED SPECIFICATIONS 13009

1.0 **DESCRIPTION OF EQUIPMENT-**

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

2.0 **OTHER SPECIFICATIONS AND STANDARDS-**

- 2.1 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 2.2 The **chippers and all its components and attachments** shall comply with the applicable regulations:

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- 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 and service, the Bidder shall have an authorized service facility located within 10 km of the boundaries of the City of Winnipeg. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered.

Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

4.0 REFERENCES-

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

5.0 MAKE & MODEL-

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

6.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS-

6.1 Each bid will be evaluated based on adherence to all terms, conditions and requirements outlined in the Bid Opportunity package.

6.2 All items in these specifications must be answered indicating compliance or non-compliance. **BIDDERS SHALL STATE "YES" FOR COMPLIANCE OR STATE DEVIATION**, or give reply where requested to do so. Deviations shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.

6.3 **EACH BIDDER IS REQUIRED TO FILL IN EVERY BLANK. FAILURE TO DO SO MAY BE USED AS A BASIS FOR REJECTION OF BID**

7.0 PERFORMANCE RELIABILITY-

7.1 The responsibility for the design of the **chippers and associated attachments**, its performance and reliability shall rest upon the Contractor.

7.2 The term "repeated failures" as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the vehicle inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, subassembly, 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 **chippers and associated attachments** develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.

7.4 **The equipment shall be a heavy duty, trailer mounted brush chipper capable of chipping branches, tree limbs and logs up to 15 inches in diameter, loading into a dump truck and capable of consistent top year-round 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 **chippers and associated attachments** shall have five (5) years continuous experience manufacturing chippers and associated attachments.
- 9.2 The manufacturer shall have in effect a documented quality control program ensuring that the quality of materials and workmanship, including welding, conforms to the best standards and engineering practice of the industry.
- 9.3 The Contractor shall have five (5) years continuous experience servicing, repairing and maintaining **chippers and associated attachments** of the type being offered.

10.0 NATIONAL SAFETY MARK- (IF APPLICABLE)

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

STATE (NSM) #- _____

11.0 MANITOBA SAFETY INSPECTION- (IF APPLICABLE)

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

12.0 SPECIFICATIONS-

WEIGHT AND DIMENSIONS

- 12.1 **State** the following:
 - i) Overall length. _____
 - ii) Overall width. _____
 - iii) Track width. _____
 - iv) Operating weight (fully fuelled). _____
 - v) Tongue weight. _____

CHASSIS

- 12.2 Frame – heavy duty metal construction, **state** frame type and dimensions. _____
- 12.3 Axle – heavy duty, 7000 lbs. capacity, **state** rating. _____
- 12.4 Suspension – rubber torsion, sized to match GTWR _____
- 12.5 Tires – to match GTWR, LT285/75R16 LRE approx., Load Range E, rib style tread, **state** size and load rating. _____
- 12.6 Rims – steel, automotive style. _____

- 12.7 Spare rim and tire – one (1), identical to rims and tires being bid. _____
- 12.8 Wheel nut indicators – required on all wheel nuts. _____
- 12.9 Fenders – required, steel, heavy duty, exterior portions to be finished with Line-X heavy duty non-slip coating. _____
- 12.10 Jack leg – heavy duty, crank down, located on trailer tongue. _____
- 12.11 Foot pad – stationary, 3" x 5". _____
- 12.12 Brakes – electric brakes with breakaway switch. _____
- 12.13 Pintle draw bar – heavy duty, height adjustable draw bar w/3 in. ID, sized to match GTWR, Dico Model 20 or equivalent. _____
- 12.14 Safety chains and eye hooks – shall conform with CMVSS and Manitoba Highway Traffic Act. Eye hooks to be complete with spring closures. _____
- 12.15 Tool box – lockable. _____
- 12.16 Conspicuity tape – Truck-Lite 98127 or equal, affixed 360° around unit. _____
- 12.17 Fire extinguisher – 5 lb. ABC type, required with mounting bracket, readily accessible. **State** location- _____

ENGINE AND ENGINE EQUIPMENT

- 12.18 Engine – four cylinder, liquid cooled, TIER IV diesel engine. **State** make and model being bid- _____
- 12.19 Horsepower – 130 gross hp, **state-** _____
- 12.20 Displacement – **state.** _____
- 12.21 Torque – **state** max. torque @ rated rpm. _____
- 12.22 Radiator – heavy duty with guard rails and removable radiator screen. _____
- 12.23 Coolant – extended life, rated for -40°C. _____
- 12.24 Ignition – keyed ignition c/w three (3) sets of keys. _____
- 12.25 Air cleaner – dry cartridge type. _____
- 12.26 Fuel filter – spin-on type with water separator. _____
- 12.27 Fuel tank – 90-100 L capacity with sight gauge, fully fuelled upon delivery. _____
- 12.28 Oil filter – full flow, spin-on type. _____
- 12.29 Clutch – 13" spring-loaded automotive style and manual lever engagement. _____

12.30 Exhaust – muffler with rain cap or bend and 40° cut-off.

12.31 Block heater – 110 V immersion type.

12.32 Gauges – the following gauges shall be supplied:

i) Fuel gauge.

ii) Hour-meter – non-resettable type.

CUTTING SYSTEM

12.33 Drum size – 20" W x 20" Ø, **state-**

12.34 Speed – 2000 rpm.

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

INFEED CHUTE

12.36 Type – heavy duty steel construction with four position upper feed control bar, noticeably labeled. In-feed chute shall as standard have a safety bottom stop feed bar and reinforced rear rubber in-feed safety curtain, positioned to cover entire in-feed opening.

12.37 Infeed throat – 12" x 17" approx., **state-**

Feed table – 32" L x 26" H approx., **state-**

HYDRAULICS

12.38 Feed system – reversible.

12.39 Feed rate – 122 fpm .

12.40 Feed wheels – Two (2), vertical hydraulically driven, supported by heavy duty bearings.

12.41 Unit shall have an engine speed monitoring system to automatically control the feed to match engine rpm.

12.42 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.

12.43 Hydraulic pump – **state** psi, gpm @ rated rpm.

12.44 Return line filter – replaceable, spin-on cartridge type.

12.45 Hydraulic hoses – rated for system pressure with 4 to 1 safety factor for burst pressure.

12.46 Hydraulic hoses to be protected at wear and scuff locations.

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

12.48 Black iron fittings are not acceptable on pressure lines.

12.49 All hydraulic hoses shall be covered, neatly routed and secured with plastic tie wraps where necessary. _____

DISCHARGE CHUTE

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

12.51 270° swivel, **state**- _____

12.52 Chip deflector – adjustable. _____

ELECTRICAL AND LIGHTING

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

12.54 Electrical system – 12-Volt, negative ground system. _____

12.55 Starter – electric. _____

12.56 Battery – 900-950 CCA. _____

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

12.58 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. _____

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

12.60 3-light cluster – required, LED. _____

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

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

12.63 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. _____

12.64 Warning beacon brush guard – required. _____

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

12.66 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. _____

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

NOISE LEVEL

- 12.68 Decibels – 85 decibels max. @ 50 ft., 360° around unit.
-

COLOUR AND FINISH

- 12.69 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.
-

13.0 WARRANTY

- 13.1 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. Warranty- (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.
-

14.0 TRAINING-

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

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

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

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

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

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

Training Aides:

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

What is the recommended minimum training duration for:

Primary unit: _____

For major attachments (if applicable): _____

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

For the primary unit: _____

For major attachments (if applicable): _____

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

102-1155 Pacific Avenue
Winnipeg, MB
R3E 3P1

Leanne Guertin
Equipment Operator Training Consultant

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

15.0 DELIVERY-

- 15.1 Delivery Point- The complete unit shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.I.V.S. (if applicable) to the WFMA 185 Tecumseh Street, Winnipeg MB. _____

- 15.2 Delivery Time- Within **ten to twelve (10-12) calendar weeks** from the date of official notification of award of contract. Equipment shall be delivered between 8:00 am and 3:00 pm on Business Days. _____

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

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

16.0 MANUALS-

- 16.1 Manuals supplied under this contract. The manuals shall cover the complete equipment including all components thereof, CD is preferred where available. _____

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

- a) Operator's manual – Two (2) per unit (one operators manual shall be sent to the Equipment Operator Training Branch _____)
- b) Parts and service manuals – one (1) complete sets including preventative maintenance schedules. CDs are preferred. _____

FORM N: DETAILED SPECIFICATIONS 13010

1.0 **DESCRIPTION OF EQUIPMENT-**

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

2.0 **OTHER SPECIFICATIONS AND STANDARDS-**

- 2.1 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 2.2 The **chippers and all its components and attachments** shall comply with the applicable regulations:

Highway Traffic Act = <http://web2.gov.mb.ca/laws/statutes/ccsm/h060e.pHP>

Manitoba Motor Vehicle Act = <http://www.tc.gc.ca/acts-regulations/GENERAL/M/mvsa/menu.htm>

Canadian Motor Vehicle Safety Standards, CMVSS = <http://www.gnb.ca/0062/regs/83-163.htm>

Transport Canada = <http://laws.justice.gc.ca/en/notice/index.html?redirect=%2Fen%2FM-10.01%2F250448.html>

National Safety Mark, NSM = <http://www.tc.gc.ca/actsregulations/GENERAL/M/mvsa/regulations/mvsrg/001/mvsr3-5.html>

Manitoba/Winnipeg Safety and Health Act, Parts 12, 22 = <http://web2.gov.mb.ca/laws/statutes/ccsm/w210e.pHP> and <http://www.gov.mb.ca/labour/safety/>

Canadian Standards Association, CSA = <http://www.csa.ca/about/Default.asp?language=english>

Under Writers of Canada, U/L = <http://www.ulc.ca/>

Society of Automotive Engineers, SAE = http://en.wikipedia.org/wiki/Society_of_Automotive_Engineers

Occupational Health and Safety Regulation (British Columbia) 188/2011, Part 12. = <http://www2.worksafefbc.com/publications/ohsregulation/Part12.asp>

- 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 and service, the Bidder shall have an authorized service facility located within 10 km of the boundaries of the City of Winnipeg. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered.

Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

4.0 REFERENCES-

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

5.0 MAKE & MODEL-

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

6.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS-

6.1 Each bid will be evaluated based on adherence to all terms, conditions and requirements outlined in the Bid Opportunity package.

6.2 All items in these specifications must be answered indicating compliance or non-compliance. **BIDDERS SHALL STATE "YES" FOR COMPLIANCE OR STATE DEVIATION**, or give reply where requested to do so. Deviations shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.

6.3 **EACH BIDDER IS REQUIRED TO FILL IN EVERY BLANK. FAILURE TO DO SO MAY BE USED AS A BASIS FOR REJECTION OF BID**

7.0 PERFORMANCE RELIABILITY-

7.1 The responsibility for the design of the **chippers and associated attachments**, its performance and reliability shall rest upon the Contractor.

7.2 The term "repeated failures" as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the vehicle inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, subassembly, or assembly. Minor items or ordinary service adjustments are not included, or considered under the scope of "repeated failures", as well as other factors, such as operational damage due to accidents, misuse or lack of proper maintenance, service and lubrication attention by not following the manufacturer's preventative maintenance schedule.

7.3 Where the **chippers and associated attachments** develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.

7.4 **The equipment shall be heavy duty, trailer mounted brush chippers capable of chipping branches, tree limbs and logs up to 18 inches in diameter, loading into a dump truck capable of consistent top year-round 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 **chippers and associated attachments** shall have five (5) years continuous experience manufacturing chippers and associated attachments.
- 9.2 The manufacturer shall have in effect a documented quality control program ensuring that the quality of materials and workmanship, including welding, conforms to the best standards and engineering practice of the industry.
- 9.3 The Contractor shall have five (5) years continuous experience servicing, repairing and maintaining **chippers and associated attachments** of the type being offered.

10.0 NATIONAL SAFETY MARK- (IF APPLICABLE)

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

STATE (NSM) #- _____

11.0 MANITOBA SAFETY INSPECTION- (IF APPLICABLE)

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

12.0 SPECIFICATIONS-

WEIGHT AND DIMENSIONS

- 12.1 **State** the following:
 - i) Overall length. _____
 - ii) Overall width. _____
 - iii) Track width. _____
 - iv) Operating weight (fully fuelled). _____
 - v) Tongue weight. _____

CHASSIS

- 12.2 Frame – heavy duty metal construction, **state** frame type and dimensions. _____
- 12.3 Axle – heavy duty, 10,000 lbs. capacity, **state** rating. _____
- 12.4 Suspension – rubber torsion, sized to match GTWR _____
- 12.5 Tires – to match GTWR, ST235/75R17.5 LJ approx., Load Range E, rib style tread, **state** size and load rating. _____
- 12.6 Rims – steel, automotive style. _____
- 12.7 Spare rim and tire – one (1), identical to rims and tires being bid. _____
- 12.8 Wheel nut indicators – required on all wheel nuts. _____

- 12.9 Fenders – required, steel, heavy duty, exterior portions to be finished with Line-X heavy duty non-slip coating. _____
- 12.10 Jack leg – heavy duty, crank down, located on trailer tongue. _____
- 12.11 Foot pad – stationary, 3" x 5". _____
- 12.12 Brakes – electric brakes with breakaway switch. _____
- 12.13 Pintle draw bar – heavy duty, height adjustable draw bar w/3 in. ID, sized to match GTWR, Dico Model 20 or equivalent. _____
- 12.14 Safety chains and eye hooks – shall conform with CMVSS and Manitoba Highway Traffic Act. Eye hooks to be complete with spring closures. _____
- 12.15 Tool box – lockable. _____
- 12.16 Conspicuity tape – Truck-Lite 98127 or equal, affixed 360° around unit. _____
- 12.17 Fire extinguisher – 5 lb. ABC type, required with mounting bracket, readily accessible. **State** location- _____

ENGINE AND ENGINE EQUIPMENT

- 12.18 Engine – four cylinder, liquid cooled, TIER IV diesel engine. **State** make and model being bid- _____
- 12.19 Horsepower – 170-175 gross hp, **state-** _____
- 12.20 Displacement – **state.** _____
- 12.21 Torque – **state** max. torque @ rated rpm. _____
- 12.22 Radiator – heavy duty with guard rails and removable radiator screen. _____
- 12.23 Coolant – extended life, rated for -40°C. _____
- 12.24 Ignition – keyed ignition c/w three (3) sets of keys. _____
- 12.25 Air cleaner – dry cartridge type. _____
- 12.26 Fuel filter – spin-on type with water separator. _____
- 12.27 Fuel tank – 125-135 L capacity with sight gauge, fully fuelled upon delivery. _____
- 12.28 Oil filter – full flow, spin-on type. _____
- 12.29 Clutch – 13" spring-loaded automotive style and manual lever engagement. _____
- 12.30 Exhaust – muffler with rain cap or bend and 40° cut-off. _____
- 12.31 Block heater – 110 V immersion type. _____

12.32 Gauges – the following gauges shall be supplied:

i) Fuel gauge. _____

ii) Hour-meter – non-resettable type. _____

CUTTING SYSTEM

12.33 Drum size – 26" W x 30" Ø, **state-** _____

12.34 Speed – 1100 rpm. _____

12.35 Knives – four (4), A8 chipper steel. _____

INFEED CHUTE

12.36 Type – heavy duty steel construction with four position upper feed control bar, noticeably labeled. In-feed chute shall as standard have a safety bottom stop feed bar and reinforced rear rubber in-feed safety curtain, positioned to cover entire in-feed opening. _____

12.37 Infeed throat – 20" x 24" approx., **state-** _____

Feed table –36" L x 34" H approx., **state-** _____

HYDRAULICS

12.38 Feed system – reversible. _____

12.39 Feed rate – 117 fpm . _____

12.40 Feed wheels – Two (2), vertical hydraulically driven, supported by heavy duty bearings. _____

12.41 Unit shall have an engine speed monitoring system to automatically control the feed to match engine rpm. _____

12.42 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. _____

12.43 Hydraulic pump – **state** psi, gpm @ rated rpm. _____

12.44 Return line filter – replaceable, spin-on cartridge type. _____

12.45 Hydraulic hoses – rated for system pressure with 4 to 1 safety factor for burst pressure. _____

12.46 Hydraulic hoses to be protected at wear and scuff locations. _____

12.47 Hose fittings – hydraulic full flow, crimp-on (non-reusable) type. _____

12.48 Black iron fittings are not acceptable on pressure lines. _____

12.49 All hydraulic hoses shall be covered, neatly routed and secured with plastic tie wraps where necessary. _____

DISCHARGE CHUTE

12.50 Length – shall be capable of discharging chips for truck loading, 110 in. approx., **state** length- _____

12.51 270° swivel, **state**- _____

12.52 Chip deflector – adjustable. _____

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12.54 Electrical system – 12-Volt, negative ground system. _____

12.55 Starter – electric. _____

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Training Aides:

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

What is the recommended minimum training duration for:

Primary unit: _____

For major attachments (if applicable): _____

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

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

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16.0 MANUALS-

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- a) Operator's manual – Two (2) per unit (one operators manual shall be sent to the Equipment Operator Training Branch
- b) Parts and service manuals – one (1) complete sets including preventative maintenance schedules. CDs are preferred.

FORM Q-SUSTAINABILITY QUESTIONNAIRE

Product Information

(Yes/No)

Product Sustainability: High Quality, Small Ecological Footprint

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

Describe:

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

Describe:

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

Describe:

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

Describe:

Company Information

Energy and Climate: Reducing Energy Costs and Greenhouse Gas Emissions

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

Describe:

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

Describe:

Material Efficiency: Reducing Waste and Enhancing Quality

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

Describe:

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

Describe:

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

Describe:

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

Describe:

Natural Resources: Responsibly Sourced Raw Materials

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

Describe:

Social Responsibility: Ensuring Responsible and Ethical Production

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

Describe:

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

Describe:

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

Describe:
