

FORM A: BID
(See B8)

1. Contract Title SUPPLY & DELIVERY OF A COMPOST TURNER

2. Bidder

Name of Bidder

Usual Business Name of Bidder as it appears on Invoice (if different from above)

Street

City

Province

Postal Code

(Mailing address if different)

Email Address of Bidder

Facsimile Number

Street or P.O. Box

City

Province

Postal Code

(Choose one)

GST Registration Number (if applicable)

The Bidder is:

a sole proprietor

a partnership

a corporation

carrying on business under the above name.

3. Contact Person

The Bidder hereby authorizes the following contact person to represent the Bidder for purposes of the Bid.

Contact Person

Title

Telephone Number

Facsimile Number

Email Address

4. Definitions

All capitalized terms used in the Contract shall have the meanings ascribed to them in the General Conditions and D3.

5. Offer The Bidder hereby offers to perform the Work in accordance with the Contract for the price(s), in Canadian funds, set out on Form B: Prices, appended hereto.

6. Commencement of the Work The Bidder agrees that no Work shall commence until he/she is in receipt of a notice of award from the Award Authority authorizing the commencement of the Work.

7. Contract The Bidder agrees that the Bid Opportunity in its entirety shall be deemed to be incorporated in and to form a part of this offer notwithstanding that not all parts thereof are necessarily attached to or accompany this Bid.

8. Addenda The Bidder certifies that the following addenda have been received and agrees that they shall be deemed to form a part of the Contract:

No.	_____	Dated	_____
	_____		_____
	_____		_____

9. Time This offer shall be open for acceptance, binding and irrevocable for a period of sixty (60) Calendar Days following the Submission Deadline.

10. Signatures The Bidder or the Bidder's authorized official or officials have signed this _____ day of _____, 20_____.

Signature of Bidder or
Bidder's Authorized Official or Officials

(Print here name and official capacity of individual whose signature appears above)

(Print here name and official capacity of individual whose signature appears above)

FORM B: PRICES
(See B9)

SUPPLY & DELIVERY OF A COMPOST TURNER

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1.	Compost Turner	13029	(Each)	(1)	\$ _____	\$ _____
TOTAL BID PRICE (GST and MRST extra) (in figures) \$ _____						

Name of Bidder

FORM N: DETAILED SPECIFICATIONS 13029

1.0 DESCRIPTION-

- 1.1 These specifications describe a Compost Turner and other equipment and features as specified herein.
- 1.2 The Compost Turner shall be new 2013 or newer model year.
- 1.3 The Compost Turner 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.

APPLICATION-

- 1.4 The size of the Phase 1 L&YW composting pad (Reference Appendix "A") is based on an anticipated 21,000 tpy of leaf and yard waste, an operating schedule, and a set of assumptions regarding the month-by-month quantities, composition, and densities. The sizing also factored in the recycling of approximately 5350 tonnes of screening overs back into the compost operation.

For background reference, the following summary of the annual operating schedule was outlined in the Preliminary Design Report:

"The design and sizing of the Leaf and Yard Waste (L&YW) composting operation is based on a one-year composting and curing schedule. Windrows will be formed in the early spring of each year using dry, high-carbon materials collected in the early spring (e.g. leaves and dried grass). During the late spring and summer, these windrows would be amended with green grass. These materials will be composted and cured during the following 6 to 8 months. The materials will then be screened during the spring of the following year.

Leaves and other high-carbon feedstock received in the fall of each year will be windrowed and/or stockpiled and used as carbon-amendments the following season."

Based on this operating schedule and the assumed feedstock characteristics, the volumetric capacity requirement for the Phase 1 pad was determined to be approximately 98,000 m³.

A windrow layout was completed based on splitting the Phase 1 pad into two operating areas (Pad A and Pad B). It is intended that windrows be oriented on a north-south direction parallel to the slope of the pad. Windrows are expected to be a minimum separation of 1.5 m apart for equipment access and drainage – it is not intended that adjacent windrows are touching each other.

This layout also includes allowances for a 10m wide equipment access lane around the perimeter of the pad, and a 10 m access lane through the centerline of the pad in an east-west direction (shown in red in the following diagram). An allowance for a centralized screening area was also included.

The final dimensions of the Phase 1 pad are 190 m by 480 m **(See attached design drawing. Note that this pad is slightly larger than what was determined during the predesign stage due primarily to surface drainage changes).**

CITY OF WINNIPEG COMPOST SITE	
BRADY ROAD RESOURCE MANAGEMENT FACILITY (BRRMF)	
<p>The Leaf and Yard Waste (L&YW) and Pilot Biosolids Composting Facility is located entirely within the Brady Road Resource Management Facility (BRRMF) site. The BRRMF is located at 1901 Brady Road, Winnipeg, situated south of the Perimeter Highway, between Brady Road and Waverley Street.</p>	
Site Access:	Dual access via two approaches off BRRMF main access road 10m wide equipment access lane around the perimeter of the pad,
Pad Size:	Approximately 8.5 Hectares or 22 Acres (450m x 190m)
Pad Surface Material:	Granular - Compacted Limestone (¾" down)
Volumetric Capacity:	98,000 m ³
Average Material Input:	21,000 metric tonnes per year
Maximum Material Input:	25,000 metric tonnes per year
Feedstock:	Leaves, grass, garden waste Prunings, shrubs and small branches up to 100mm in diameter (unground)
Source:	Residential and small commercial
Collection Program:	Operates April to mid-November
Collection Method:	Residential curbside collection - Kraft paper bags Residential and small commercial drop-off - loose material
Target Characteristics:	Moisture content between 55 and 60 percent (by weight) Carbon to nitrogen (C:N) ratio between 25:1 and 35:1
Operation:	1 year composting and curing schedule
Type:	Windrow
Maximum Windrow Length:	170 m
Minimum Windrow X-section:	11 m ²
Windrow Separation:	1.5 metres
Windrow Orientation:	North/South
Water Source:	On-site storage ponds
Composting Material - Peaks	Thatch- May/June Grass - May to September Leaves - October / November
Future Capacity:	Completion of Phase Two site would allow for additional 7,500 metric tonnes per year

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 **Compost Turner** 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

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

2.3 It will be the responsibility of the Bidder to inform the City of any deficiencies in these specifications, for under this Contract the Contractor shall be held responsible for the design, performance, reliability and satisfactory operational function of the units.

3.0 SERVICE FACILITY-

3.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility located within 10 km of the boundaries of the City of Winnipeg. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered. Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

3.2 If a suitable warranty facility is not available within 10 km of the boundaries of the City of Winnipeg, the Bidder may propose that the City of Winnipeg Repair Facility perform warranty work. Any Work performed by the City of Winnipeg Repair Facility shall be charged to the Contractor at the Facility's shop rate in effect at the time the work is performed (for example, shop rate for 2013: \$82.00/hour and \$112.00/hour for overtime and callout).

The Bidder shall choose and fill in one (1) of the Clauses listed below. (3.2.1) or (3.2.2)

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

3.2.2 Bidder elects to have warranty work be performed by the City of Winnipeg Repair Facility.

4.0 **REFERENCES-**

4.1 The Bidder shall provide three (3) Canadian references where this equipment is used in a similar 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 **Compost Turner**, 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 **Compost Turner** develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.

7.4 **The equipment shall be capable of consistent top performance in City of Winnipeg Environment. Note: The City of Winnipeg has four seasons with ambient temperatures ranging from approximately 90°F (32°C) to -40°F (-40°C)**

8.0 **FUEL-**

8.1 Where applicable, all equipment must be fully fuelled upon delivery (no exceptions).

9.0 QUALIFICATIONS OF MANUFACTURER & CONTRACTOR-

- 9.1 The manufacturer of the **Compost Turner** shall have five (5) years continuous experience manufacturing **Compost Turner**.
- 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.

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-

PERFORMANCE REQUIREMENTS

- 12.1 Single pass windrow turn _____
- 12.2 Automated engine/travel speed controls for drum load control _____
- 12.3 Must be able to accommodate a Windrow cross section of 11m² _____
- 12.4 Minimum required spacing between windrows: **State-** _____
- 12.5 Variable speed drum: **State** rpm range- _____
- 12.6 Drum drive system: **State** type- _____
- 12.7 Must be full straddle, single pass style unit. _____

OPERATOR CAB

- 12.8 Completely enclosed operator cab and lockable. _____
- 12.9 Adjustable operator seat with lumbar support. **State** degrees of vision- _____
- 12.10 AM/FM radio/CD player required. _____
- 12.11 Air conditioned and heated cab controls. Pressurized Hepa filter cab system, pressurized filtered air to prevent and minimize dust in the cab. _____
- 12.12 Heated side mirrors, adjustable to allow operator to see windrow line. _____
- 12.13 Cab designed to minimize noise exposure of operator. Noise level shall be 85DB Or under, **state-** _____
- 12.14 Cab access rails/ladder must provide three point contact for operator at all times. _____
- 12.15 Internally mounted fire extinguisher & first aid kit required _____
- 12.16 Ergonomic control system to minimize operator discomfort. _____
- 12.17 Adjustable speed controls for auger and drum. _____

- 12.18 Equipped with emergency engine shut-off. _____
- 12.19 Intermittent wiper blades with wet kit. _____
- 12.20 Horn required _____
- 12.21 Groenveld Auto greasing required, **state** quantity of grease points _____
- 12.22 Tinted front windshield and/or sun visor. _____
- 12.23 Interior courtesy light. _____
- 12.24 Manual control for reversing cooling fan. _____
- WHEELS/TIRES/TRACKS-**
- 12.25 Tires or tracks acceptable. _____
- 12.26 Tires or tracks to be aggressive mud tread. _____
- 12.28 All tires to be tubeless steel radials. _____
- 12.29 Tire manufacturer/model. **State-** _____
- BRAKES-**
- 12.30 Braking system. **State-** _____
- 12.31 Parking brake system. **State-** _____
- ENGINE- State** liters per hour fuel consumption at idle- lphr _____
- 12.32 Air cooled or water cooled with reversible coolant fan. **State-** _____
- 12.33 Turbo-type air pre-cleaner _____
- 12.34 Replaceable dry type air cleaner _____
- 12.35 Horsepower, **State-** _____
- 12.36 Fuel Tank capacity, **State-** _____
- 12.37 Engine easily accessible for maintenance (skirts to be pinned /hinged) _____
- 12.38 Automatic shut down for:
 - i) High engine temperature _____
 - ii) Low oil pressure _____
- 12.39 Ladder access to engine compartment _____
- 12.40 Engine oil heater _____
- 12.41 Hydraulic oil heater _____
- 12.42 Remote mounted engine oil drain hose _____
- 12.43 Fire suppression system _____
- GAUGES-**
- 12.44 All gauges labelled and legible _____
- 12.45 Engine oil pressure. _____
- 12.46 Coolant temperature. _____
- 12.47 Fuel level sensor. _____
- 12.48 Dash mounted electric hour meter activated by ignition switch. _____
- 12.49 Temperature sensor. _____

12.50 Hydraulic pressure. _____

12.51 Volt meter. _____

DRUM/TURNER HARDWARE-

12.52 Auger/flail type, **State-** _____

12.53 Must come with 1 complete replacement set of auger/flail wear parts _____

TRANSMISSION-

12.54 **State** type and design- _____

12.55 **State** RPM vs ground speed @ 10 km/hr- _____

12.56 **State** gear ratios- _____

12.57 **State** minimum and maximum travel speed- _____

ELECTRICAL-

12.58 Electrical system voltage, **State-** _____

12.59 Batteries 2280 CCA _____

12.60 Audible backup alarm _____

12.61 Two (2) Front and two (2) rear flood lights for night operations _____

12.62 Circuit breakers shall be provided for all circuits. _____

12.63 Bolt and eyelet connectors at all junction locks, to be soldered not crimped _____

12.64 2 spares of each fuse type/size _____

12.65 Battery isolation switch _____

12.66 Built-in battery charger _____

HYDRAULIC SYSTEM-

12.67 Hydraulic oil capacity, **State-** _____

PAINT-

12.68 The entire tank and body shall be sandblasted and primed with 2 coats of primer and a 10 year life expectancy. **State** process- _____

WATER HARDWARE-

12.69 Water application hardware must be positioned to allow moisture addition during turning process _____

12.70 Hardware must have replaceable nozzles using NPT standard thread _____

12.71 Hardware must be capable of mating with hose reel via 100 mm (4-inch) female cam-lock fitting. _____

DIMENSIONS-

12.72 **State** dimensions-

-Height (highest point including beacon)- _____

-Width (Widest outside point) _____

12.73 Based on the published Preventative Maintenance Schedule of the equipment being bid, the bidder shall submit the parts pricing and interval that the service is required within their bid submission. The PM Schedule must also include all consumable items parts pricing.

13.0 WARRANTY-

13.1 All warranty information shall be detailed and include all exclusions. The successful bidder shall provide all published warranty information within their bid submission. _____

13.2 Basic Coverage **State-** _____

13.3 Batteries **State-** _____

13.4 Drive-train **State-** _____

13.5 Cab structure/corrosion **State-** _____

13.6 Frame/cross-members **State-** _____

13.7 Cab paint **State-** _____

13.8 Engine **State-** _____

13.9 Transmission **State-** _____

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 City of Winnipeg Brady Landfill. The successful bidder shall be notified by the Contractor Administrator the delivery address prior to issuance of the purchase order.
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- 15.2 **Delivery Time-** **No later than April 1st, 2014** 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.
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- 15.3 **Delivery Contact-** The Contractor shall contact the Contract Administrator prior to delivery of the equipment.
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- 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
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16.0 MANUALS-

16.1 Manuals supplied under this contract shall be in English and shall be specifically for the cab & chassis, snow plow, sander/dump box, pre-wetting system and control system supplied. General purpose manuals are not acceptable. 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:

16.3 Operator's manual – Two (2) per unit (one operators manual shall be sent to the Equipment Operator Training Branch.

2 complete sets of manuals to include:

- i) cab and body parts
- ii) engine parts
- iii) body service
- iv) engine service
- v) operators manual
- vii) body electric manual
- viii) hydraulic/electrical schematics

16.4 Provide recommended spare parts list and pricing
