Definitions

4.

#### FORM A: BID (See B8)

1.	Contract Title	SUPPLY AND DELIVERY OF CONTROL	F A SWEEPER WITH WATERLES	S DUST
2.	Bidder			
		Name of Bidder		
		Usual Business Name of Bidder as in	t appears on Invoice (if different from above	e)
		Street		
		City	Province	Postal Code
		Email Address of Bidder		
		Facsimile Number		
	(Mailing address if different)	Street or P.O. Box		
		City	Province	Postal Code
		GST Registration Number (if applica	ble)	
		The Bidder is:		
	(Choose one)	a sole proprietor		
		a partnership		
		a corporation		
		carrying on business under th	ne above name.	
3.	Contact Person	The Bidder hereby authorize the Bidder for purposes of the	s the following contact person to e Bid.	represent
		Contact Person	Title	
		Telephone Number	Facsimile Number	
		Email Address		

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.Indigenous Self-<br/>DeclarationThe City is requesting that Bidders identify if their business is at least<br/>51% owned by one or more Indigenous persons of Canada.

YES, 51% or more Indigenous ownership

NO, it is not

This information is being gathered for statistical purposes only and will not be used for purposes of evaluation.

## 11. Signatures The Bidder or the Bidder's authorized official or officials have signed this

\_\_\_\_\_ Day of \_\_\_\_\_, 20\_\_\_\_\_.

Signature of Bidder or Bidder's Authorized Official or Officials

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

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

#### FORM B: PRICES (See B9)

# SUPPLY AND DELIVERY OF A SWEEPER WITH WATERLESS DUST CONTROL

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	QUANTITY	UNIT PRICE
1.	Sweeper	17055	Each	1	

Name of Bidder

#### FORM N: DETAILED SPECIFICATIONS 17055

#### Sweeper with Waterless Dust Control System

#### 1.0 DESCRIPTION OF EQUIPMENT

- 1.1 These specifications describe a <u>Sweeper</u> and other equipment and features as specified herein. Primary use of the sweeper is to clean floors in the Transit Maintenance Garage, Bus Storage Tracks and general property sweeping. The sweeper is design to sweep year-round without the use of water, has high maneuverability and meets dust free sweeping criteria. The sweeper must be capable of wet pick-up of water, glycol, or other non-flammable fluids without damage to the hopper or filter system.
- 1.2 The <u>Sweeper</u> shall be a new 2018 model year or newer.
- 1.3 The <u>Sweeper</u> and all other items/components shall be the manufacturer's latest model. The equipment shall be furnished complete and ready for operation. Any parts or accessories not specifically mentioned, but which are required to complete and place the equipment and associated attachments in successful operation shall be furnished as though specifically mentioned in these specifications. The equipment and associated attachments, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.
- 1.4 It will be the responsibility of the Bidder to inform the City of any errors or omissions in these specifications, for under this Contract the Contractor shall be held responsible for the satisfactory operational function of the equipment.

#### 2.0 OTHER SPECIFICATIONS AND STANDARDS

- 2.1 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 2.2 <u>Where applicable</u>, the <u>Sweeper</u> shall comply with the following regulations:

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

Manitoba Safety and Health Regulation, Parts 12, 16, 22: <u>http://web2.gov.mb.ca/laws/regs/current/217.06.pdf</u>

Canadian Motor Vehicle Safety Standards C.M.V.S.S. <u>http://laws-lois.justice.gc.ca/eng/regulations/C.R.C., c. 1038/section-sched3.html</u>

Manitoba Highway Traffic Act regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker. http://web2.gov.mb.ca/laws/regs/index.php?act=h60

Canadian Standards Association, CSA: <a href="http://www.csagroup.org/">http://www.csagroup.org/</a>

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

Society of Automotive Engineers, SAE: <a href="http://www.sae.org/">http://www.sae.org/</a>

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. 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 <u>REFERENCES</u>

4.1 If available, please provide five (5) 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 year, make and model being 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 **Sweeper**, 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 <u>Sweeper</u> 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 <u>FUEL</u>

8.1 <u>Where applicable</u>, all equipment must be fully fueled upon delivery (no exceptions).

#### 9.0 QUALIFICATIONS OF MANUFACTURER & CONTRACTOR

- 9.1 The manufacturer of the <u>Sweeper</u> shall have five (5) years continuous experience manufacturing <u>Sweeper</u>.
- 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 **Sweeper** of the type being offered.

# 10.0 **SPECIFICATIONS:**

10.1	Vehicle Make	State:	
10.2	Vehicle Model	State:	
	Sweeper Dimensions		
10.3	Length - Standard	Approximately 4445 mm (175 in.) <b>State:</b>	
10.4	Length – With Front Brush (If equipped)	Approximately 5230 mm (206 in.) <b>State:</b>	
10.5	Width	Approximately 1780 mm (70 in.) <b>State:</b>	
10.6	Height	Approximately 2540 mm (100 in.) <b>State:</b>	
10.7	Weight	Approximately 5670 kg (12,500 lbs.) State:	
10.8	Payload	State:	
10.9	Sweeping Path	Approximately 2210 mm (87 in.) State:	

Engine

#### 10.10 Engine Turbo-Diesel Tier 4 (Interim or Final compliant) meeting current Emission Standards State: 10.11 Transmission Hydrostatic Approximately 74 kW (99 hp) 10.12 Horsepower State: 10.13 Speed – Forward (Variable to) Approximately 40 km/h (25 mph) State: 10.14 Fuel Tank State: size Air Cleaner 10.15 Dual Stage Engine Air Cleaner Type State: Braking 10.16 Brake Type Drum or Multi-Disc State: type Note: enclosed to prevent any dirt from entering 10.17 Parking Brake **Required: Cooling System** 10.18 System Sealed and pressurized 10.19 Capacity State: capacity **Electrical System** 10.20 Protection All wiring shall be fully shielded for water and dust proof protection **Fuel System** 10.21 Capacity State: capacity **Hydraulics** 10.22 Motors Main broom Front brush Side (gutter) brushes Hopper State: qty and function

 10.23
 Capacity
 Approximately 68 L (15 gal)
 \_\_\_\_\_\_

 10.24
 Sight Gauge
 Required:
 \_\_\_\_\_\_

10.25	Bypass Tow Valve	Required:	
10.26	Suction Filter	Required: State: type and size	
10.27	Return Filter	Required: State: type and size	
10.28	Pressure Bypass	Required:	
10.29	Accessory Pumps	Required: State: quantity and application	
	Hydrostatic Transmission		
10.30	Transmission	State: type	
10.31	Transition	<b>Required:</b> ability to switch from Transit Mode to Sweeping Mode	·
10.32	Memory System	Maintain previous settings when switching between sweep and transit modes	
10.33	Steering System		
10.34	Tilt Steering	Required:	
10.35	Power Steering	Required:	
10.36	Turning Radius	Approximately 4 m (13 ft.) Outside <b>State:</b>	
10.37	Suspension System		
10.38	System – Front & Rear	State:	
	Sweeping Components and Sy	stem	
10.39	<ul> <li>Brooms and brushes to have to positioned</li> <li>Incorporate forward impact sh</li> <li>Require minimal operator adjution</li> <li>Controlled from inside the cable</li> </ul>	ustment for wear	
	Main Broom		
10.40	Self- adjusting for pressure and wear	Required:	
10.41	Length	Approximately 1295 mm (51 in.) State:	
10.42	Diameter	Approximately 610 mm (24 in.) <b>State:</b>	
10.43	Material	Polypropylene	
10.44	Rotation Speed	Approximately 175 rpm State:	

## Side (Gutter) Brushes

10.45	<ul> <li>Direct hydraulic drive type</li> <li>Hydraulic relief valve to protect</li> <li>Variable speed</li> <li>Ability to be raised or lowered</li> <li>Transportation locking device</li> <li>Adjustable kick-back features</li> </ul>	t from damage	
10.46	Dual Side (Gutter) Brushes	Required:	
10.47	Side (Gutter) Brush - Diameter	Approximately 810 mm (32 in.) <b>State:</b>	
10.48	Side (Gutter) Brush - Material	Polypropylene and wire	
10.49	Rotation Speed	Approximately 40 - 80 rpm <b>State:</b>	
	Dust Control System		
10.50	Dust Filtration	Shall be PM-10, AQMD-Rule 1186 certified	
10.51	Filter System	Dry filtering	
10.52	Filter Type	Mildew resistant	
10.53	Filter Area	Approximately 21 m <sup>2</sup> (221 ft <sup>2</sup> ) <b>State:</b>	
10.54	Vacuum Fans	Required: to control dust State: qty, size and speed	
10.55	Skirting	Required: Dry dust control skirting system	
	Hopper		
10.56	Material	Stainless steel	·
10.57	Capacity	Approximately 2.6 m <sup>3</sup> (3.4 yd <sup>3</sup> ) <b>State:</b>	
10.58	Dump Height	Required: Low Dump (Ground Level) State: height	
10.59	Full Load Warning System	<b>Required:</b> full load indicator light if equipped with a rear hopper <b>State:</b>	
10.60	Hopper Movement Warning Alarm	Required:	
	Wander Hose		
10.61	Inlet	Approximately 150 mm (6 in.) to 203 mm (8 in.) <b>State:</b>	
10.62	Reach	Approximately 3.7 m (12 ft.) <b>State:</b>	

#### 10.63 Air Flow State: Debris Transport System – Conveyor System Note: Complete this section if the sweeper is equipped with a conveyor system to transport debris to the hopper. Mark as "N/A" if the sweeper is equipped with a vacuum system 10.64 Conveyor Belt Rubber or squeegee State: type 10.65 Paddles/Troughs State: type and quantity if applicable 10.66 Drive Direct hydraulic, variable with forward and reverse 10.67 Protection Hydraulic relief cartridge 10.68 Variable forward and reverse Speed 10.69 **Bearings** Sealed, high load capacity with dust seals 10.70 Automatic hydraulic self-tensioning Conveyor system conveyor chain system Debris Transport System – Vacuum System Note: Complete this section if the sweeper is equipped with a vacuum system to transport debris to the hopper. Mark as "N/A" if the sweeper is equipped

with a conveyor system

10.71	Fan	State:         Type:         Drive:         Vacuum:	
10.72	Vacuum	State:	
10.73	Filter	State:	
	Operator Compartment		
10.74	Cabin	Required: Sealed, pressurized cabin	
10.75	Cabin Filter	Required: MERV 15 rated	
10.76	Filtered Air Intake	Required:	
10.77	Air Conditioning, Heater and	Required: factory installed	
	Defroster		
10.78	Windshield Washer - Electric	Required:	
10.79	Windshield Wipers - Intermittent	Required:	
10.80	Operator and Passenger Seats	Required:	
10.81	Seats	Air suspension, fully adjustable bucket seats	

10.82	Seat Belts	Required:	
10.83	Glass	Required: Tinted safety glass	
10.84	Doors	Total view glass cab doors	
10.85	Keyed Door Locks	Required:	
10.86	Windows	Dual pane sliding/locking windows	
10.87	Sun Visors	Required:	
	Controls		
10.88	Steering Wheel	Required:	
10.89	Forward/Reverse/Neutral Selector	Required:	
10.90	Brake Pedal	Required:	
10.91	Sweep Selector	Required:	
10.92	Brush Position Control	Required:	. <u> </u>
10.93	Brush Speed	Required:	
10.94	Brush Pressure	Required:	
10.95	Key Ignition / Start Switch	Required:	
10.96	Horn	Required:	
10.97	Headlights	Required:	
10.98	Windshield Washer and Wipers	Required:	
10.99	Dash Mounted Switches	<ul> <li>Lighting</li> <li>Hazard warning</li> <li>Beacon</li> <li>Hopper raise / lower</li> </ul>	
10.100	Overhead Display	State: any additional switches and functions Provide status for: • Fuel • Engine temperature • Engine oil pressure • Engine rpm • Hour meter	
		<ul> <li>Hopper raised indicator</li> <li>Hydraulic oil temperature</li> <li>High beams</li> <li>Clock</li> </ul> State: any additional displays	
	Standard Equipment		
10.101	Mirrors	Required: LH and RH side	
10.102	Dual Headlights/Taillights	Required:	

10.103	Back-Up Camera and Monitor	Required:	
10.104	Back-Up Lights	Required:	
10.105	Rear Bumper - Rubber	Required:	
10.106	Tow Hooks	Required:	
	Safety		
10.107	360 Degree View	360 degree view around the sweeper from inside the cab through the use of windows, mirrors and cameras	
10.108	Stop Sweep Function	<b>Required:</b> Operator Controlled or Automatically, when transmission is placed in reverse; all sweep functions shall stop <b>State:</b> method	
10.109	Back-Up Alarm	Required:	
10.110	Sound Level	State: dBA	
	Greasing System		
10.111	Sweeper shall have an <u>Automatic</u> Progressive) installed per manufa	Centralized Greasing System (Parallel or cturer's specifications	
	<b>State:</b> Type: Make: Model:		
10.112	<ul><li>cycles</li><li>Grease agitator</li><li>Equipped with low level shut-c required)</li></ul>	ngth of time, time interval and amount of off and with in-cab indicator (alarm or display re micro switch and an under pressure larm or display)	
10.113	<b>Grease:</b> Grease pump will pump Original E grease from $-35^{\circ}$ C to $+70^{\circ}$ C.	Equipment Manufacturer specified EP2	
10.114	<b>Power Input:</b> System power connection to ignitiand for greasing system to shut de	on source with an accessible fuse protection own when engine is turned off	
10.115		etween the pump and the distributor blocks ocks or in the case of a parallel injector type	

system between the pump and each injector.

10.116	<b>Distribution Blocks:</b> Corrosion resistant Tested to withstand a 720-hour s	salt-spray test	
10.117	remote grease zerks as requ	adily accessible or shall be equipped with ired. nread sealant applied to prevent leakage	
10.118	Grease Lines: • Low temperature compatible • #4 JIC fittings	grease lines	
	State:         Hose Manufacturer:         Temperature Range:         Hose Diameter:         Bend Radius:         PSI Rating:		
10.119	Grease Points:		
	State: quantity of grease points:		
	<b>State:</b> quantity of grease points to Centralized Greasing System.	that cannot be connected to the Automatic	
	Optional Equipment		
	Front Brush		
10.120	Front Brush	<ul> <li>Fully traversing and independently controlled</li> <li>Ability to extend approximately 1420 mm (56 in.)</li> <li>Controlled from inside the cab</li> <li>controlled height, reach (left to right of the machine) and tilt</li> </ul>	
10.121	Front Brush - Diameter	Approximately 965 mm (38 in.) <b>State:</b>	
10.122	Front Brush - Material	Polypropylene and wire	
10.123	Rotation Speed	Approximately 40 - 80 rpm <b>State:</b>	
10.124	State: Optional Price for Front B	rush.	\$

10.124 **State:** Optional Price for **Front Brush**.

## 11.0 **WARRANTY:**

11.1	All warranty information shall be detailed and <i>include all exclusions</i> .	
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The successful bidder shall provide all published warranty information upon delivery of the equipment.

Bidder shall state all warranty information.

11.2	Parts	State:	
11.3	Labour	State:	
11.4	Greasing System	State:	

#### 12.0 **DELIVERY:**

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

#### 12.2 **Delivery Time:**

Approximately 8 - 12 calendar weeks from date of award

Equipment shall be delivered between 8:00 am and 2:00 pm on Business Days.

State: earliest delivery time: \_\_\_\_

- 12.3 **Delivery Contact:** The Contractor shall contact the Contract Administrator prior to delivery of the equipment.
- 12.4 **P.D.I:** A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list

#### 13.0 **MANUALS:**

- 13.1 **Operator's Manual:** One (1) per unit shall be supplied with the units when delivered:
- 13.2 <u>Service Manual:</u> One (1) per unit shall be supplied with the units when delivered:

#### 14.0 **PARTS/LABOUR PRICING:**

- 14.1 Bidder to provide City of Winnipeg Parts Discount % Pricing from retail parts pricing. **State percentage discount**
- 14.2 Bidder to provide City of Winnipeg Labor Discount % Pricing from Retail shop labor rate. **State percentage discount**

# 15.0 FIRST SERVICE PREVENTATIVE MAINTENANCE KIT:

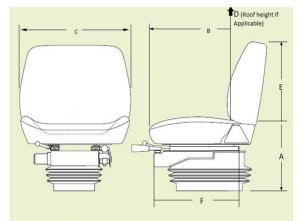
- 15.1 In order to assure minimum downtime of the Equipment in future service, the Contractor must provide one (1) complete replacement set of new OEM filters for each unit purchased. The set of required filters shall include (if applicable to the equipment type) air, fuel, oil, cab and hydraulic, or otherwise all known necessary common replacement filters required for the first preventative maintenance servicing.
- 15.2 The Contractor must provide a list of factory recommended lubricants to be used with the equipment, as well as a complete cross reference guide for all warranty approved lubricants and filters that can be used during Preventative Maintenance servicing.

# 16.0 **ERGONOMIC SPECIFICATIONS**

#### Entry/ Exit

16.1	First step entry height	State: height of first step in inches	
16.2	First handhold entry height	State: first handhold entry height in inches	
16.3	Access to equipment	State: door opening height in inches	
16.4	Access to equipment	State: door opening width in inches	
16.5	Designed to prevent slipping	Anti-slip steps/handholds (Y or N)?	

- <u>Seat</u>
- 16.6 Use diagram to answer questions.



16.7 Sitting Height Range (from floor (where feet rest) (A)) State: seat height range in inches

16.8	Seat Length/Depth (B)	State: seat length/depth in inches	
16.9	Seat Width (C)	State: seat width in inches	
16.10	Cab Height (from seat to roof (if applicable) (D))	State: cab height range in inches	
16.11	Back Rest Height (E)	State: back rest height in inches	
16.12	Seat Travel Range (F)	State: seat travel in inches	
16.13	Lumbar Support	Is lumbar support provided (Y or N)?	
16.14	Head Rest	Is head rest provided (Y or N)?	
16.15	Seat is made of breathable material	State: type of seat material	
	<u>Operation</u>		
16.16	Reaching Distance (to usual work)	State: reaching distance in inches	
16.17	Maximum Reaching Distance	State: maximum reach distance in inches	
16.18	Adjustable Pedals (accelerator/brake/clutch)	Are pedals adjustable (Y or N)?	
16.19	Adjustable Steering Wheel	Is steering wheel adjustable (Y or N)?	
16.20	Adjustable Shoulder Belt	Is belt adjustable and anchored (Y or N)?	
	Cargo Area		
16.21	Lid opens to provide adequate space	Adequate space provided (Y or N)?	
16.22	Loading Height	State: trunk height in inches	
	<b>Environment</b>		
16.23	Operator compartment is insulated from equipment noise (while operating)	State: dB inside cab while operating	
16.24	Operator insulated from equipment vibration	Is operator insulated from vibration (Y or N)?	
16.25	Heating/Cooling Systems	State: cab temperature range	
16.26	Cab Lighting	State: lumens inside cab	
	Maintenance/ Inspection		
16.27	Lift Assistance (when necessary)	Is lift assistance provided (Y or N)?	

## 16.28 Easy Access Is easy access provided **(Y or N)?** (to compartment doors)

16.29 Include any other relevant ergonomic specifications and applicable range of adjustment