FORM A: BID (See B8)

1.	Contract Title	SUPPLY AND DELIVERY	Y OF STREET SWEEPERS	
2.	Bidder			
		Name of Bidder		
		Usual Business Name of Bidde	r as it appears on Invoice (if different	from above)
		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 ap	plicable)	
		The Bidder is:		
	(Choose one)	a sole proprietor		
		a partnership		
		a corporation		
		carrying on business und	er the above name.	
3.	Contact Person	The Bidder hereby author the Bidder for purposes of	orizes the following contact per f the Bid.	erson to represent
		Contact Person	Title	
		Telephone Number	Facsimile Number	
		Email Address		·
4.	Definitions		ed in the Contract shall ha eneral Conditions and D3.	ve the meanings

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- Declaration	The City is requesting that Bidders identify if their business is at least 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 official	als 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	e appears above)
		(Print here name and official capacity of individual whose signatur	e appears above)

FORM B: PRICES

(See B9)

SUPPLY AND DELIVERY OF STREET SWEEPERS

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	QUANTITY	UNIT PRICE
1.	Street Sweeper	18026	Each	4	

Name of Bidder	

FORM N: DETAILED SPECIFICATIONS 18026

Street Sweeper

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 fulfill the City of Winnipeg's annual requirements of spring cleaning of winter sand/salt and debris from streets and bike paths in addition to regional street maintenance and construction clean-up throughout the summer months. The sweeper shall have the ability and the operator controls for operation from either side for sweeping in direction of traffic.
- 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: http://www.tc.gc.ca/eng/acts-regulations/acts-road.htm

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

Canadian Motor Vehicle Safety Standards C.M.V.S.S.

http://laws-lois.justice.gc.ca/eng/regulations/C.R.C., c. 1038/section-sched3.html

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:

http://www.csagroup.org/

Under Writers of Canada, U/L:

http://www.ulc.ca/

Society of Automotive Engineers, SAE:

http://www.sae.org/

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 REFERENCES

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.
- 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 <u>Sweeper</u>, 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>

100

- 8.1 Where applicable, all equipment must be fully fueled upon delivery (no exceptions).
- 9.0 QUALIFICATIONS OF MANUFACTURER & CONTRACTOR

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- 9.1 The manufacturer of the <u>Sweeper</u> shall have five (5) years continuous experience manufacturing **Sweeper**.
- 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:	
	Steering, Wheels and Tires		
10.3	Configuration	3-Wheel State : Steering Configuration – front or rear	
10.4	Steering Strut	Dual tires	
10.5	Steer Wheels and Tires	State: type, size and load rating	
10.6	Drive Wheels and Tires	State: type, size and load rating	
10.7	Spares	Two (2) spare tires and rims for each type	
	Sweeper Dimensions		
10.8	Wheelbase	Approximately 2946 mm (116 in.) - 3236 mm (127.4 in.) State:	
10.9	Overall Length	Approximately 4877 mm (192 in.) - 5436 mm (214 in.) State:	
10.10	Height with Cab	Approximately 2692 mm (106 in.) - 3010 mm (119 in.) State:	
10.11	Width (Outside Tires)	Approximately 2489 mm (98 in.) - 2591 mm (102 in.) State:	

10.12	Sweeping Path Two (2) Side Brooms	Approximately 3048 mm (120 in.) - 3175 mm (125 in.) State:	
10.13	Turning Radius (Curb to Curb)	State:	
10.14	Turning Radius (Wall to Wall)	State:	
10.15	Weight (Empty) Two (2) Side Brooms	Approximately 6232 kg (13,740 lbs.) – 6482 kg (14290 lbs.) State:	
	Engine		
10.16	Engine Make and Model	State: Make: Model:	
10.17	Engine Type	4-Cylinder, Turbocharged Diesel State:	
10.18	Emission Standards	Tier 4 State:	
10.19	Displacement	Approximately 4.5 L (276 cu. in.) State:	
10.20	Horsepower	Approximately 74 kW (99 hp) to 86 kW (115 hp) State:	
10.21	Torque (Net)	Approximately 372 Nm (274 ftlbs.) @ 1400 rpm State:	
10.22	Engine Shutdown	Low oil pressure and high water temperature shut down system	
	Hydrostatic Transmission		
10.23	Туре	Hydrostatic	
10.24	Pump	Variable displacement	
10.25	Forward / Reverse	Single pedal or shift selector State: type	
10.26	Road Speed Control	Single pedal	
10.27	Speed – Forward (Variable to)	Approximately 32 km/h (20 mph) - 40 km/h (25 mph) State:	
10.28	Protection	Transmission protected by a filter with cab restriction indicator State: filter rating	

10.29	Transition	Ability to switch from Transit (Transport) Mode to Sweeping Mode	
10.30	Memory System	Maintain previous settings when switching between sweep and transit modes	
	Fuel System		
10.31	Fuel Type	Diesel	
10.32	Fuel Tank	Approximately 132.5 L (35 Gal) State: capacity	
10.33	Fuel and Water Separator	Fuel and Water Separator	
10.34	Fuel Filter	Built-in	
10.35	DEF Tank	State: capacity	
	Air Cleaner		
10.36	Туре	Dual safety element dry type air cleaner State:	
10.37	In-Cab Restriction Indicator Light	State:	
	Braking		
10.38	Service Brake Type	Hydraulic - Drum or Multi-Disc State: type	
		Note: enclosed to prevent any dirt from entering	
10.39	Parking Brake	State: type	
	Cooling System		
10.40	System	Sealed and pressurized	
10.41	Capacity	State: capacity	
10.42	Coolant	Extended life rated to -35 degree Celsius	
	Electrical System		
10.43	Battery	Approximately 900 – 925 CCA State:	
10.44	Alternator	Approximately 120 amp State:	
10.45	Diagnostics	Complete plug-in diagnostic that includes fault codes and troubleshooting	
10.46	Identification	All wiring shall be harnessed, solid coloured, numbered and function coded wire (i.e. "Ignition", "Headlight") every 4 – 12 inches	

10.47	Protection of Circuits	Protected with automatically self-resetting circuit breakers	
10.48	Protection of Wiring	All wiring shall be fully shielded for water and dust proof protection	
10.49	Battery Disconnect Switch	In-cab mounted outboard of driver's seatSwitch to be lockable with pad lock.	
		State: location.	
	Lighting		
10.50	Lighting	Lighting shall be D.O.T. approved including: Combination stop and tail lights Sealed multiple headlights High beam – low beam switch Adjustable side broom spotlights Illuminated gauges and instruments panel Internally illuminated rocker switches Self-cancelling directional signals Hazard switch	
10.51	Stop / Tail / Turn Lights	LED	
10.52	Turn and Hazard Lights	Self-cancelling	
10.53	Back-Up Lights	State: type	
10.54	Gutter Broom Lights	State: type	
10.55	Rear Licence Plate Light and Bracket	State: type	
10.56	Work Lights (Spotlight, LED)	 For night time operation Two (2) roof mounted, forward facing Two (2) roof mounted, rear facing Low mounted facing each side broom Note: to be equipped with interior mounted	
		cab switches	
10.57	Beacon	Amber LED Beacon, Class 1 High Dome at each roof corner. Note: 1. Whelen L31HAF or equivalent in accordance with B6 Substitutes 2. Wired through ignition that provide 360 degree visibility 3. Brush guard on each beacon	
	Hydraulics		
10.58	Capacity	State: total system capacity	
10.59	Baffles	State: quantity and size	

10.60	Drain Plugs	State: quantity and size	
10.61	Sight Gauge	State: location	
10.62	Warning Indicator	To warn operator if the hydraulic oil in the reservoir falls below acceptable levels	
10.63	Temperature Indicator	In-cab indicator to warn operator if the hydraulic oil reaches high temperatures complete with shut down capabilities	
10.64	Contamination Prevention	The Hydraulic System must include the following filtration elements: Tank fill neck strainer Suction strainer Suction filter with restriction gauge High pressure filter complete with restriction status indicator Water/hydraulic oil separator/filter installed in the return circuit	
10.65	Pressure Hydraulic Fittings	Flat-faced "O" ring or "O" ring boss type State: type	
10.66	Suction Filter	State: type and size	
10.67	Return Filter	State: type and size	
10.68	Pressure Bypass Valve	State: type and size	
	Water System		
10.69	Water Tank Capacity	Approximately 832 L (220 gal) – 870 L (230 gal) State: capacity	
10.70	Construction	Corrosion proof Stainless Steel Note: epoxy liners not acceptable State: tank construction	
10.71	Water Pumps	Twin electric diaphragm capable of running dry State: flow	
10.72	Water Flow Control	On/Off and variable flow control located incab State:	
10.73	Disengage	Equipped with provision to disengage water spray pump while sweeping	
10.74	Low Water Indicator	In-cab	
10.75	Water Fill Gauge	Visible from normal operating position	
10.76	In-line Water Filter	Readily accessible	
10.77	Flush and Wash Down	Internal hopper/conveyor flush and wash down system	

10.78	Hydrant Hose	Approximately 7.6 m (25 ft.) State: length	
10.79	Hydrant Coupling	2-1/2 inch NST coupler equipped with a siphon breaker and wrench	
10.80	Storage Compartment	For proper storage of hose and ease of access	
	Suspension System		
10.81	System – Front & Rear	State:	
	Sweeping Components and Sys	stem	
10.82	 Brooms and brushes to have to positioned Incorporate forward impact she Require minimal operator adjunction Controlled from inside the cab 	stment for wear	
	Main Broom		
10.83	Self- adjusting for pressure and wear	Main broom will maintain correct down pressure while compensating for wear State:	
10.84	Raise and Lower	Hydraulically controlled	
10.85	Drive	Direct hydraulic with relief valve protection	
10.86	Broom Speed	Variable while independent of vehicle speed or direction	
10.87	Length	Approximately 1473 mm (58 in.) – 1676 mm (66 in.) State:	
10.88	Diameter	Approximately 813 mm (32 in.) – 889 mm (35 in.) State:	
10.89	Material	Polypropylene	
10.90	Protection	 Broom is raised automatically when sweeper is reversed. Broom returns to its sweep position when forward direction is resumed 	

Side (Gutter) Brooms

10.91	Dual Side (Gutter) Brooms	State:	
10.92	Side (Gutter) Brooms to be: • Direct hydraulic drive type • Hydraulic relief valve to protect • Variable speed • Pressure adjustable • Ability to be raised or lowered • Transportation locking device • Adjustable kick-back features	t from damage	
10.93	Side (Gutter) Broom - Diameter	Approximately 914 mm (36 in.) – 1194 mm (47 in.) State: size	
10.94	Side (Gutter) Broom - Material	Polypropylene and wire	
10.95	Tilt	In-cab controlled for tilting inward and outward of both side brooms while sweeping	
	Hopper		
10.96	Hopper Dump Configuration	State: Configuration – front or rear	
		Note: For safety, the operator to have the ability to observe the dump target and surrounding area at all times from inside the cab	
10.97	Hopper Dump Control	State: method	
10.98	Material	Stainless steel	
10.99	Capacity (Volumetric)	Approximately 2.8 m 3 (3.6 yd 3) – 4.3 m 3 (5.6 yd 3) State:	
10.100	Capacity (Useable)	Approximately 2.3 m 3 (3.0 yd 3) – 3.4 m 3 (4.5 yd 3) State:	
10.101	Lifting Capacity	Approximately 4080 kg (9000 lbs.) – 5443 kg (12,000 lbs.) State:	
10.102	Dump Cycle	Approximately 60 sec State:	
10.103	Dump Height	State: range of dumping heights	
10.104	Dump Reach	Approximately 711 mm (28 in.) – 838 mm (33 in.) State:	

10.105	Full Load Warning System	A warning indicator to be warn operator when hopper is at capacity State: method	
10.106	Hopper Movement Warning Alarm	Alarm system to warm the operator of any movement of the sweeper when the hopper is in a raised position State: method	
10.107	Maintenance	Hopper lift and tilt mechanism to be fully greaseable	
	Conveyor System		
10.108	Туре	Conveyor with solid rubber belt with Chevron shaped style cleats and fine material grabbing sipes between cleats	
		OR	
		Elevator with a 7 or 11 flight configuration, continuously molded rubber belts and replaceable corded rubber squeegee tips	
		State: type	
10.109	Capability	Capable of effectively sweeping debris of varying sizes (from large bulky trash 6 in. in height to fine sand) without the need to make any adjustments to the conveyor system.	
		Capable of evenly loading hopper to full capacity	
10.110	Drive	Direct hydraulic, variable with forward and reverse	
10.111	Protection	Hydraulic relief cartridge	
10.112	Speed	Variable forward and reverse	
10.113	Bearings	Sealed, high load capacity with dust seals	
10.114	General Maintenance	Lower conveyor wash down system to clean the lower conveyor roll by diverting fill water, at the hydrant pressure, through the conveyor roll area	
	Operator Compartment		
10.115	Cabin	Fully enclosed pressurized cabin, dust and weather sealed	
10.116	Insulation	Sound suppressed and insulated	

10.117	Cabin Filter	Approximately MERV 15 rated State: filter rating	
10.118	Filtered Air Intake	State:	
10.119	Air Conditioning, Heater and Defroster	Factory installed	
10.120	Windshield Washer - Electric	State:	
10.121	Windshield Wipers - Intermittent	State:	
10.122	Operator and Passenger Seats	State:	
10.123	Seats	Air suspension, fully adjustable bucket seats	
10.124	Seat Belts	State:	
10.125	Radio	With blue tooth capabilities and auxiliary input State:	
10.126	Dome Light	State:	
10.127	Mirrors – Rear View	State:	
10.128	Mirrors – Outside	LH and RH side, motorized and heated west coast type with convex inserts	
10.129	Glass	Tinted safety glass	
10.130	Doors	Total view glass cab doors	
10.131	Keyed Door Locks	State:	
10.132	Windows	Dual pane sliding/locking windows	
10.133	Sun Visors	State:	
10.134	Grab Handles	Located for ergonomic entry and egress State: location	
10.135	Steps	Removable cab entrance steps	
	Controls		
10.136	Operator Position Configuration	Dedicated curbside <u>and</u> streetside operator positions	
		OR	
		Single operator position located in the centre of the cab	
		State: configuration	
10.137	Steering Wheel	State:	

10.138	Tilt and Telescopic Steering Column	State:	
10.139	Power Steering	State:	
10.140	Forward/Reverse/Neutral Selector	State:	
10.141	Brake Pedal	State:	
10.142	Sweep Selector	State:	
10.143	Brush Position Control	State:	
10.144	Brush Speed	State:	
10.145	Brush Pressure	State:	
10.146	Key Ignition / Start Switch	Three (3) sets of keys	
10.147	Horn	State:	
10.148	Headlights	State:	
10.149	Windshield Washer and Wipers	State:	
10.150	Dash Mounted Switches	LightingHazard warningBeaconHopper raise / lower	
		State: any additional switches and functions	
10.151	Rocker Switches	 To be internally illuminated so they may be readily identified without the cab dome light Clearly identified by name and international symbol 	
10.152	Instrument Panel Display	Illuminated and provide status for: Clock Fuel Engine Coolant Temperature Engine Air Filter Restriction Indicator Engine Temperature Engine Oil Pressure Engine rpm Hour Meter Hydraulic Filter Restriction Indicator Hydraulic Oil Temperature High beams Odometer Oil Pressure Speedometer Tachometer Voltage Gauge	

State: any additional displays

Misc. Equipment

10.153	Toolbox	Lockable State: location	
10.154	Limb Guards	One each side of the sweeper State:	
10.155	Rear Bumper - Rubber	State: type	
10.156	Tow Hooks	State: location	
	Paint		
10.157	body panels, engine cover panels	ng but not limited to, cab, hopper, frame, s, general bracketry to be individually 100% ssembly to protect the machine from the vages of sweeping environments	
10.158	Exterior Colour	White	
	Safety		
10.159	360 Degree View	360 degree view around the sweeper from	·
		inside the cab through the use of windows, mirrors and cameras	
10.160	Stop Sweep Function	Operator Controlled or Automatically,	
		when transmission is placed in reverse; all sweep functions to stop State: method	
10.161	Back-Up Camera and Monitor	 Display the area behind the sweeper when reversing Display shall be selectable to allow continuous rear view at all times Display to have an additional camera input to allow for future expansion Camera to be equipped with infra-red lamps to allow night vision 	
10.162	Back-Up Alarm	Factory installed State: dB(A)	
10.163	Slow Moving Vehicle Sign	Rear Mounted Truck-Lite 797 or equivalent in accordance with B6 Substitutes	
10.164	Fire Extinguisher	 2.5 lbs. High volume ABC type Securely mounted with quick release State: location 	
10.165	Flare Kit	Three (3) triangular reflectors, CVSA approved	
10.166	Cab Silencer Package	For minimal decibel level State:	

10.167	Interior Sound Level	State: dB(A), measured in accordance with SAE J336	
	Auto Greasing System		
10.168	Sweeper shall have an Autom manufacturer's specifications. State: Type: Make: Model:	natic Greasing System installed per	
10.169	 Connected to all grease poi Outfitted with automatic low Capable of manual greasing Grease pump reservoir to be 	y level shut-off g via fitted zerk in line to connected component be clear to visually determine grease levels stem status such as power to system, low level,	
10.170	 accommodating 500 hour s Pump to have correct filler a staff to refill reservoir. Greasing system to be preservoir to have a F For safety reasons, access 	adapter fitting for City of Winnipeg maintenance	
10.171	fuse protection and for the gis turned off.Compressed air connection	o 12V or 24V ignition source with an accessible greasing system to shut down when the engine of the automatic lubrication system pump to be air tank supply of the chassis compressed air	

 Red ¼ in. DOT approved airline to be applied and fitted with an air system protection check valve into the system secondary tank.

10.172 **Grease Lines:**

- System mainline to be outfitted with #4 JIC crimped ends for the mainline between parallel injection system manifolds using Extreme Low temperature (example: Parker Blue Stripe) steel braided rubber hose with compatibility to accommodate max working pressure of 5000psi.
- System secondary lines to be outfitted with #4 JIC crimped ends where an extreme environment requires a hydraulic hose to be used
- 1/4 in (6mm) nylon heavy wall secondary grease line or equivalent to be installed and protected from extreme environments such as heat sources, and components producing vibration.
- Thread sealant for main and secondary grease lines of each fitting to be

	 applied. For diagnostic purposes, all applicable secondary grease lines to use color 	
	coded line from the injector to the connected component.	
	State:	
	Hose Manufacturer:	
	Temperature Range:	
	Hose Diameter: PSI Rating:	
	1 of Nating.	
10.173	Grease Points:	
	State: quantity of grease points:	
	State: quantity of grease points that cannot be connected to the Automatic Greasing System	
10.174	Grease Fittings:	
10.174	All grease fittings to be readily accessible or shall be equipped with remote grease zerks	
10.175	Injector Manifolds:	
10.175	Mounted secure in an area away from debris impact, Special guards should be fitted for injector manifolds and hoses in areas of consistent debris impact	
10.176	Grease:	
	NLGI-2 Heavy-Duty Grease.	
	Temperature range to suit the City of Winnipeg's environment. State: temperature range	
10.177	Environmental Impact:	
	Features to ensure the automatic lubrication system does not grease while	
	parked will be considered, the system layout and grease injector delivery to	

be considered to not over-grease a connected component to void OEM

warranty and/or leave excessive grease on roadway, street etc.

Full Maintenance Package - Option

10.178	 Provide quotation on a <u>Full Maintenance Package</u> per Manufacturers' 	
	Maintenance Guidelines and City of Winnipeg Specifications stated below	
	 Anticipated usage will be 7 months a year and 160 hours/month per unit. 	
	 Estimated hours calculated as follows: = 7 months a year and 160 hours/month per unit = 1120 hours per unit per year 	
10.179	For equipment purchased under this Contract, the Contractor shall repair or rectify any defects in workmanship, construction and materials, and shall repair or replace without additional cost to the City, any component that has become defective and not proven to have been caused by negligence on the part of the user.	
10.180	 The street sweepers are of vital importance to the City in providing essential services and, accordingly, all repair items brought to the attention of the Contractor by the City shall be rectified within three (3) calendar days (see Specification 10.189) 	
	 The City reserves the right to affect repairs to the equipment, at full cost to the Contractor, should the Contractor fail to perform in a timely manner 	
10.181	 Should the Contractor dispute the City's decision on repair work required (as stated in 10.180) the Contractor shall contact the Contract Administrator 	
	 Details of the unit's defects or damage shall be provided to the Contract Administrator, who shall investigate the Contractor's claims 	
	The unit shall remain as is until the claim has been resolved	
	 The Contract Administrator shall have the final decision in disputes regarding repair work 	
	 The Contractor shall have no claim against the City for any costs to rectify defects or damage where defects or damage was rectified without the consent of the Contract Administrator 	
10.182	The City shall be responsible for the following items for equipment purchased under this Contract:	
	 Repair of damage to the equipment where damage has proven to have been caused by negligence on the part of the City 	
	Repair or replacement of damaged tires due to road hazards	
	 Normal operating and maintenance supplies including daily and weekly maintenance such as greasing and cleaning 	

• Consumables including fuel, brooms, broom adjustments, dirt shoes and

dirt curtains

10.183	The Contractor shall be responsible for the following items for equipment	
	purchased under this Contract:	
	 All scheduled maintenance including (but not limited to) oil and filter changes, and regular service adjustments as recommended by the equipment and chassis manufacturers 	
	All repairs due to mechanical failure or malfunction	
	Towing costs (if unit is immobile)	
	All conveyor/elevator system repair and replacement parts	
	 All parts and labour costs (excluding items listed in Specification 10.180 	
	Tires due to normal wear	
	• Conveyor	
	 Two spare tires and rims for the sweepers, to be delivered to WFMA at 195 Tecumseh Ave 	
10.184	The Contractor shall authorize the City of Winnipeg Repair Facilities to	
	perform minor repairs and breakdowns during evenings, nights and weekends as required.	
	• The extent of the repairs shall be limited to a maximum of 4-hours per unit per breakdown	
	 For all other repairs, or repairs requiring more than 4-hours labour, the City shall contact the Contractor the following Business day. 	
	 Any work performed by the City shall be charged to the Contractor at the Repair Facility's shop rate in effect at the time the work is performed (for example, shop rate for 2018: \$109.00/hour, overtime \$129.00/hour) 	
10.185	Downtime shall not exceed forty-eight (48) hours	
	 Downtime shall include the time that the equipment is required by the Contractor for regular scheduled servicing or for maintenance of the machines required to correct failures not proven to have been caused by negligence of the user. 	
10.186	The machines will be available to the Contractor for regular scheduled servicing or for maintenance during the hours of 4:00 pm – 9:00 pm Monday-	
	Friday (most days) between April 1 and October 31 or as mutually agreed upon by the City and the Contractor	
10.187	On days, or during times that the equipment is not in use by the City, the	
	City shall make the street sweepers available to the Contractor to perform maintenance and repairs described in Specifications 10.179, 10.185 and 10.186	
	Said days or times shall not be considered downtime	

10.188	 All regular scheduled maintena 	nce (such as oil changes, filters, etc.) shall	
		either at 1220 Pacific Avenue or at the	
		ce is to be performed at the Contractor's responsible for pick-up and delivery of the	
	Said times shall be pre-arrange	ed by the Contractor and the City.	
10.189	for more than three (3) Calenda	use due to warranty, repair or maintenance ar days, the Contractor shall provide (upon ent unit at no additional cost to the City.	
		t be in good working order and meet in this contract or as mutually agreed upon	
10.190	Bidder shall acknowledge compliant requirements of Specifications 10		
	State Yes or No:		
10.191	One (1) Year	Full Maintenance based on estimated 1120 hours per unit after one (1) year	\$
10.192	Two (2) Year	Full Maintenance based on estimated 2240	\$
		hours per unit after two (2) years	•
10.193	Three (3) Year	Full Maintenance based on estimated 3360 hours per unit after three (3) years	\$
10.194	Four (4) Year	Full Maintenance based on estimated 4480 hours per unit after four (4) years	\$
10.195	Five (5) Year	Full Maintenance based on estimated 5600	\$
		hours per unit after five (5) years	

11.5

Greasing System

Guarantee Buyback

- If <u>available</u>, the Bidder shall provide a guaranteed buyback amount per unit for all four (4) units.
 - The guaranteed buyback value the Bidder will be offering the City of Winnipeg for units describe below.
 - The Bidder shall state all terms and conditions to honour the guaranteed buyback prices.
 - Estimated hours calculated as follows:
 - = 7 months a year and 160 hours/month per unit
 - = 1120 hours per unit per year

10.197	One (1) Year Buyback	Estimated 1120 hours per unit	\$
10.198	Two (2) Year Buyback	Estimated 2240 hours per unit	\$
10.199	Three (3) Year Buyback	Estimated 3360 hours per unit	\$
10.200	Four (4) Year Buyback	Estimated 4480 hours per unit	\$
10.201	Five (5) Year Buyback	Estimated 5600 hours per unit	\$
11.0	WARRANTY:		
11.1	All warranty information shall be of	detailed and include all exclusions.	
	The Contractor shall provide all p of the equipment.	ublished warranty information upon delivery	
	Bidder shall state all warranty info	ormation.	
11.2	Engine	State:	
11.3	Parts	State:	
11.4	Labour	State:	

State:

12.0	DELIVERY:	
12.1	<u>Delivery Point:</u> 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:	
	To be delivered within the approximate time frame March 11 to 29, 2019	
	Equipment shall be delivered between 8:00 am and 2:00 pm on Business Days.	
	State: earliest delivery time:	
12.3	<u>Delivery Contact:</u> The Contractor shall contact the Contract Administrator prior to delivery of the equipment.	
12.4	<u>P.D.I:</u> 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**

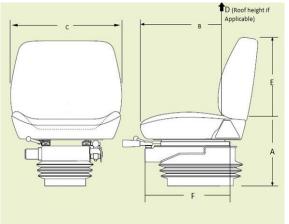
Entry/ Exit

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.

material



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	State: type of seat material	

Operation

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	
	Environment		
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 (to compartment doors)	Is easy access provided (Y or N)?	
16.29	Include any other relevant erg adjustment	onomic specifications and applicable range of	