FORM N: DETAILED SPECIFICATIONS 26010

LANDFILL COMPACTOR

1. INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

1.1 All items in these specifications should be answered indicating compliance or non-compliance.

1.2 **Bidders shall state "yes" for compliance or state "deviation"** or give a reply where requested to do so. Deviations and/or equivalents shall be clearly stated and fully detailed. Deviations and/or equivalents will be considered subject to evaluation. In every instance where a brand name or design specifications is used, the City will also consider deviations and/or equivalents.

1.3 Lengthy explanations of deviations may be included in a separate document and must reference the appropriate Detailed Specification.

1.4 Each Bidder is required to fill in every blank. Failure to do so may be used as a basis for rejection of bid.

1.5 It will be the responsibility of the Bidder to inform the City of any errors or omissions in these Detailed Specifications, for under this Contract, the Contractor shall be held responsible to ensure that the manufacturer will be responsible for the design, performance, reliability and satisfactory operational function of the unit.

2. DESCRIPTION OF EQUIPMENT

2.1 These specifications describe a **Landfill Compactor** and other equipment and features as specified herein.

2.2 The **Landfill Compactor** shall be a new 2026 model year or newer.

2.3 The **Landfill Compactor** shall be properly serviced prior to any road transportation, in accordance with the manufacturer's recommendations. A pre-delivery inspection (PDI) shall be provided at time of inspection.

2.4 The **Landfill Compactor** will be used at the City of Winnipeg's **Brady Road Resource Management Facility** for the following:

- Waste Compaction – approximately 70%
- Spreading / Leveling – approximately 30%

2.4.1 The **Landfill Compactor** shall be able to perform all of these applications.

2.5 The **Landfill Compactor** 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.

2.6 The ratings specified herein merely state the minimum values acceptable to the City, not implying that those values are sufficient for the design of the particular equipment being bid.

3. OTHER SPECIFICATIONS AND STANDARDS

3.1 All applicable SAE Standards form an integral part of the vehicle specifications and shall have precedence in any conflict concerning minimum acceptable standards.

3.2 Where applicable, the **Landfill Compactor** shall comply with the applicable regulations:

Standard - Specification/Regulation	Internet URL
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 Province of Manitoba Periodic Mandatory Vehicle Inspection (PMVI) with certificate:	Consolidated Regulations Periodic Mandatory Vehicle Inspection Regulation, M.R. 76/94
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
Manitoba Building Code:	https://web2.gov.mb.ca/laws/regs/current/_pdf-regs.php?reg=31/2011

4. **Periodic Mandatory Vehicle Inspection (PMVI)**

4.1 Where applicable, the completed unit shall include a current Province of Manitoba Periodic Mandatory Vehicle Inspection (PMVI) with certificate.

5. **National Safety Mark (NSM)**

5.1 Where applicable, the manufacturer/installer shall affix their National Safety Mark (NSM) certification sticker on each unit.

State: NSM number: _____

6. **FUEL**

6.1 Where applicable, the equipment shall be fully fuelled upon delivery (no exceptions).

7. **REFERENCES**

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

_____
_____
_____
_____
_____

8. **MAKE & MODEL**

8.1 State make, model and model year being bid:

Equipment

Make: _____

Model: _____

Model Year: _____

9. **PERFORMANCE RELIABILITY**

9.1 The responsibility for the design of the **Landfill Compactor**, its performance and reliability shall rest upon the Contractor.

9.2 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 he 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 schedule.

9.3 Where the **Landfill Compactor** develops “Repeated Failures” in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.

9.4 The **Landfill Compactor** shall be capable of consistent top performance for the following functions while being safely and efficiently controlled by one operator:

- High density waste compaction and leveling
- Processing approximately 275 tons of waste per hour

9.5 The vehicle and 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).

10. **SERVICE FACILITY**

10.1 For 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 of equipment being offered.

10.2 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

10.3 Bidders shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator’s satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

11. **QUALIFICATIONS OF MANUFACTURER & CONTRACTOR**

11.1 The manufacturer of the **Landfill Compactor** shall have five (5) years continuous experience manufacturing **Landfill Compactors.**

11.2 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.

11.3 The Contractor shall have five (5) years continuous experience servicing, repairing, and maintaining **Landfill Compactors** of the type being offered.

12. **SPECIFICATIONS**

Landfill Compactor Specifications

Make, Model and Model Year

12.1	Make	**State:** make: _____	_____
12.2	Model	**State:** model: _____	_____
12.3	Model Year	Model Year 2026 or newer **State:** model year: _____	_____

Dimensions

12.4	Operating Weight	Approximately 52,000 – 57,000 kg (114,600 – 125,600 lbs.) **State:** operating weight: _____	_____
12.5	Total Length	Approximately 9,510 mm (31 ft. 2 in.) **State:** length: _____	_____
12.6	Length without Dozer Blade	Approximately 7,460 mm (24 ft. 6 in.) **State:** length: _____	_____
12.7	Total Width	Approximately 4,950 mm (16 ft. 3 in.) **State:** width: _____	_____
12.8	Width without Dozer Blade	Approximately 4,390 mm (14 ft. 5 in.) **State:** width: _____	_____
12.9	Total Height	Approximately 4,410 mm (14 ft. 6 in.) **State:** height: _____	_____
12.10	Wheelbase	Approximately 4,060 mm (13 ft. 4 in.) **State:** wheelbase: _____	_____
12.11	Ground Clearance	Approximately 840 mm (2 ft. 9 in.) **State:** ground clearance: _____	_____
12.12	Inside Turning Radius	Approximately 3,310 mm (10 ft. 10 in.) **State:** turning radius: _____	_____
12.13	Driving Speed Range	• 0–4 km/h (0 – 2.5 mph) • 0–10 km/h (0 – 6.2 mph • Not to exceed 11 km/h in forward or reverse **State:** driving speed: _____	_____
12.14	Crushing Force	Approximately 277 kN (62,125 lbs.) **State:** crushing force: _____	_____

Engine

12.15	Type	• Tier IV Final compliant • Liquid cooled • 6-cylinder • Turbo charged • Meets current EPA standards **State:** engine type: _____	_____
12.16	Horsepower	Approximately 580 HP **State:** HP: _____	_____
12.17	Torque	Approximately 1950 lb-ft **State:** torque: _____	_____
12.18	Displacement	Approximately 15 litres **State:** displacement: _____	_____
12.19	Cooling Components	• Heavy-duty • Radiator • Charge air cooler • Hydraulic cooler • Designed specifically for landfill operation	_____
12.20	Fan	• Hydraulic driven reversible fan • Automatic timer • Manual control • Located inside engine compartment	_____
12.21	Coolers	• Mounted behind cab • Easy access for cleaning and servicing • Guarded and removeable without tools	_____
12.22	Air Cleaner	• Dry type • 2-stage	_____
12.23	Coolant	• Extended Life Coolant • Freeze protection to -40°C	_____
12.24	Cold Weather Starting	• Webasto diesel preheater • Block heater	_____
12.25	Engine Shut Down	Automatic shutdown when: • Low oil pressure • High engine temperature	_____
12.26	Oil Filter	• Spin-on type • Replaceable	_____
12.27	Fuel Filter	• Spin-on type • Replaceable	_____
12.28	Fuel Line Primer Pump	Fuel line primer pump	_____

12.29	Fuel/Water Separator	• Heated • Drainable • Includes water-in-fuel sensor • Protected	_____
12.30	Coolant Hoses	Premium silicone type or equivalent **State:** type: _____	_____
12.31	Engine Hour-Meter	• Non-Resettable Hobbs Engine Meter or manufacturer standard • Dedicated • Integrated into the dash • Visible to operators at all times	_____
	Electrical System		
12.32	Alternator	• Heavy Duty • Brushless type • 24V • Approximately 105 Amp **State:** amps: _____	_____
12.33	Starter	• 24V • Heavy Duty • Thermal Over-Crank Protection	_____
12.34	Circuit Breakers	Readily accessible **State**: auto or manual reset: _____	_____
12.35	Batteries	• Two (2) batteries • Maintenance free • Approximately 1100 CCA combined • Exposed connectors sealed with dielectric grease **State:** CCA: _____	_____
12.36	Battery Disconnect Switch	• In-cab mounted • Lockable with padlock **State:** location: _____	_____
12.37	Battery Boost Terminal	• Remote battery boosts terminal(s) • Protected from the elements **State:** location: _____	_____
	Transmission		
12.38	Type	• Hydrostatic drive system • Separate system for each drum • Fully filtered • Closed loop design • Service indicators	_____
12.39	Drum	Separate system for each drum	_____
12.40	Directional Changes	Capable at full engine speed	_____
12.41	Traction Control	Equipped	_____

	Steering		
12.42	Steering	Joystick operation	_____
	Brakes		
12.43	Brakes	• Spring applied • Hydraulic release • Multiple wet disc	_____
12.44	Parking Brake	Equipped	_____
12.45	Parking Brake Alarm	Audible and visual alarms to alert operator if parking brake is engaged	_____
	Compaction Drums		
12.46	Drums	• Qty two (2) • Rigid • Uniform full width • Non-oscillating • Powered independently	_____
12.47	Width - Crushing / Compaction	Approximately 3800 mm (150 in.) **State:** width: _____	_____
12.48	Diameter - Crushing / Compaction	• Including teeth • Approximately 1620 mm (64 in.) **State:** diameter: _____	_____
12.49	Crushing Teeth	• Height approximately 200 mm (8 in.) • Approximately 110 per drum **State:** Height: _____ Number of teeth: _____	_____
12.50	Scraper Bars	Approximately 20 per drum **State:** scraper bars per drum: _____	_____
12.51	Wire Cutters	Approximately 4 per drum **State:** wire cutters per drum: _____	_____
	Dozer Blade		
12.52	Type	• Straight dozer blade • See-through trash screen	_____
12.53	Width	• Approximately 4950 mm (195 in.) **State:** width: _____	_____
12.54	Height	• Approximately 2350 mm (93 in.) **State:** height: _____	_____

12.55	Blade Movement	• Above ground – approximately 1290 mm (51 in.) • Below ground – approximately 150 mm (6 in.) **State:** Above ground: _____ Below ground: _____	_____
12.56	Cutting Edges	• Reversible • Replaceable	_____
12.57	End Bits	Replaceable	_____
	Cab		
12.58	Type	• Fully enclosed • Sound suppression equipped • Extreme climate insulation equipped • Filtered and pressurized • Emergency exit door	_____
12.59	ROPS	• Equipped • ISO 3471:2008	_____
12.60	FOPS	• Equipped • ISO 34491:2005	_____
12.61	Grab Handles - Exterior	Equipped	_____
12.62	Grab Handles - Interior	Equipped	_____
12.63	Entrance Steps	• Equipped • Open grate / grip type • Width as wide as possible – issues with operators slipping off the steps	_____
12.64	HVAC	• Equipped • Adjustable speeds • Front and rear directional fans	_____
12.65	Seat	• Air suspension • 6-way adjustable • Adjustable armrests • Heavy-duty vinyl • Equipped with A/C and heating	_____
12.66	Front Sun Visor	Equipped	_____
12.67	Exterior Sunshade	Equipped, if available	_____
12.68	12-Volt Power Outlet	• Two (2) - 12V DC (25 amp) • Equipped with independent circuit for 2-way radio and /or laptop	_____

12.69	Radio	• Factory installed • AM/FM • Blue Tooth capability • USB input • Auxiliary input	_____
12.70	USB Ports(s)	Equipped	_____
12.71	Dome Light	Equipped	_____
12.72	Heater / Defroster	• High output • Capable of keeping all windows clear at an outside temperature of -40°C	_____
12.73	Horn	Equipped	_____
12.74	Mirrors	• External right and left side - heated • Inside	_____
12.75	Glass	• Laminated • Safety • Tinted	_____
12.76	Doors	Lockable	_____
12.77	Windshield Wipers / Washer	• Intermittent front window wiper/washer • Single speed rear window wiper/washer • Heavy duty with winter type boot wiper blades	_____
	Instrumentation		
12.78	Gauges	Illuminated gauges • Engine oil pressure • Engine intake air temperature • Engine oil temperature • Hydraulic oil temperature • Engine coolant temperature • Fuel level • Engine speed	_____

12.79	System Warnings	Indicator light, acoustic warning and alarm log • Engine over speed • Hydraulic oil temperature (both high and low) • Low hydraulic oil level • High hydraulic oil contamination • Fuel level • Gear box temperature (both high and low) • Hydraulic oil return line filter clogging • Charge pressure filter contamination • Low charge pressure • Voltage (both high and low) • In addition to above all the alarms from the diesel engine control module (including low engine oil pressure, high • coolant temperature, etc.	_____
	Fuel / DEF Tanks		
12.80	Fuel Tank	Approximately 760 L (200 gal) capacity **State:** capacity: _____	_____
12.81	DEF Tank	Approximately 72 L (19 gal) capacity **State:** capacity: _____	_____
12.82	Fuel/Water Separator	• Heated • Drainable • Includes water-in-fuel sensor • Protected from the elements	_____
	Hydraulics		
12.83	Tank	Approximately 265 L (70 gal) capacity **State: c**apacity: _____	_____
12.84	Type	• Electrical filling pump with automatic stop function • Separate filter in oil filling connection • Oil level sensor with alarm • Breather filter	_____
	Miscellaneous		
12.85	Tow Hooks	Front and rear	_____

Guarding/Protection

12.86	Guarding/Protection	• Shall be OEM factory installed • Required to protect critical components as a result to debris from waste handling and to minimize material build up. **State:** a listing of all items included in the guarding/protection package: _____ _____ _____ _____ _____ _____ _____ _____	_____

Lighting

12.87	Beacons - Amber	• Qty one (1) Amber LED Beacons • Class 1 High Dome • Complete with guard • Complete with switch and labels • Mounted with aluminum or stainless-steel brackets	_____
12.88	Work Lights	• Front and rear LED light bar(s) • Manufacturer standard • Protected from damage	_____
12.89	Side Light	• Each side of cabin • Illuminate ingress / egress for operator • Manufacturer standard	_____
12.90	Rear Working	• Outside lighting • Rearward facing • Manufacturer standard	_____
12.91	Engine Compartment	• Inside of engine compartment to assist in maintenance of equipment • Manufacturer standard	_____

Safety

12.92	Flare Kit	• Three (3) triangular reflectors • CVSA approved • Kit must be mounted or secured	_____
12.93	Fire Extinguisher	• 20 lbs. Fire Extinguisher • ABC type • Installed and secured **State:** location: _____	_____
12.94	Back-Up Alarm	• Approximately 102 dBA • Mounted to be protected from damage	_____

Cameras

12.95	Camera(s)	• One on each rear-view mirror • One at top center of cabin (birds eye view) looking back • One at rear railing for a closeup reverse view behind the machine	_____
12.96	Back-Up Camera Screen	Manufacturer standard	_____

Fire Suppression System

12.97	Operation	• Total of 16 spray points
		  • 6 spray points on each side of the engine (12 total for engine bay)
		  • 4 spray points in the exhaust system box
		• 4 points of detonation
		  • Cabin control
		  • Right rear external plunger
		  • Left rear external plunger
		  • Auto detonation in engine bay (wax coated heat sense wire)
			_____

Automatic Lubrication System

12.98 Contractor Responsibility: _____

It is the responsibility of the Contractor to ensure the awarded greasing system company (Sub-Contractor) receives a copy of this Automated Lubrication System specification as outlined below to follow as part of their installation plan

State Make & Model: _____

12.99 Application: _____

- Greasing system to supply Landfill Compactor

12.100 Greasing System: _____

- NLGI-0 automatic lubrication system
- System layout shall perform under the operating principles of a Parallel injection system
- Progressive systems not acceptable
- Grease system connected to all grease points where applicable
- Outfitted with automatic low level shut off
- In-cab monitor showing system status such as low level, low pressure and/ or fault code display

12.101 Lubrication Chart: _____

- A permanent lubrication chart showing lube points and intervals shall be installed in a visible location

12.102 Pump Reservoir: _____

- Grease pump - Pneumatic, using an electric solenoid for cycle activation **or** an electric driven only, any other pump supplied will not be accepted
- 4 kg or larger pump with clear reservoir (appropriate for the size of the machine)
- Preprogrammed parameters required to accommodate 500-hour service intervals
- Pump must have correct fill adapter fitting for the City of Winnipeg staff to refill reservoir
- Adapter fitting- Parker # H2-63
- In the event the pump needs to be mounted higher than chassis frame level, for safety reasons, access to refill the pump reservoir shall be via remote fill line of minimum 3/8 in. hydraulic steel hose to accommodate a refill procedure at ground level
- The refill adaptor must be secured with a bulkhead and angle bracket free from being snagged on anything or sharp edges
- All connected components must be prefilled with grease prior to connection of the automatic lubrication system

12.103 Power Input _____

- System power connection 12-Volt to an OEM approved ignition source with an accessible fuse protection and for automatic lubrication system to shut down when the engine is turned off
- No part of the automatic lubrication system electrical components shall be on when the ignition switch is off (LED lights supplied by a battery source power not acceptable)
- The required Compressed air connection for pneumatic pumps for Parallel NLGI-0 automatic lubrication system must be connected to a secondary air tank supply of the chassis compressed air system
- Pump air supply must not be supplied by an external aftermarket air compressor
- Red 1/4” DOT approved airline must be applied and fitted with an air system protection check valve into the system secondary tank

12.104 Grease Lines – Main _____

- Extreme Low temperature (example: Parker Blue Stripe) steel braided rubber hose with compatibility to accommodate maximum working pressure of 5000 psi.
- Hose must be outfitted with #4 JIC crimped
- Thread sealant for grease lines of each fitting must be applied

12.105 Grease Lines – Secondary _____

- Minimum 3/16” nylon heavy wall grease line or approved functionality of a product that is deemed equivalent
- Each hose on all connected points must be outfitted with #4 JIC crimped or reusable ends required for the entire automatic lubrication system
- Installed and protected from extreme environments such as heat sources and components producing vibration
- Protected from tree and or branch impact on any body components higher than 6 feet from ground level
- For diagnostic purposes, all secondary grease lines must use color coded line from the injector to the connected component
- Thread sealant for grease lines of each fitting must be applied

12.106 Greasing Points _____
State: quantity of greasing points: _____

12.107 Greasing Points Not Connected to Automatic Lubrication System _____

- Grease points that cannot be connected to the automatic lubrication system must be connected with remote grease lines – considered for extreme environments areas such as internal packer panels or doors
- Where remote lines are used, decals must be applied stating manual greasing is required with recommended grease application intervals
- Grease points connected with remote lines shall be labeled for manual greasing by operator/inspection.

State: quantity of grease points that cannot be connected to the automatic lubrication system but will be connected with remote lines only:
_____

12.108 Injector Manifold _____

- All manifolds and injectors shall be brass construction
- All manifolds must be fitted with a nylon lock nut hardware and mounted secure in an area away from debris impact and extreme heat sources
- Special guards should be fitted for injector manifolds and hoses in areas of consistent debris impact – snow, ice, garbage etc.

12.109 Environmental Impact Features: _____

- Ensure the system does not grease while parked or leave excessive grease on roadways, streets etc.
- System layout and grease injector delivery shall not over grease any component to the extent where OEM warranties are voided

12.110 Modifications: _____

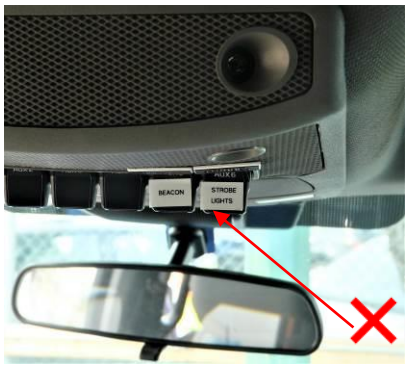
- Any modification to mount the system that requires drilling, cross drilling, enlargement of existing fitting sizes by drilling and tapping or welding must be preapproved by the contractor administrator prior to installation
- Such activities can and will void warranty thereby holding the automatic lubrication system company liable for any costs and damages involved with the equipment

Standards
(Where Applicable)

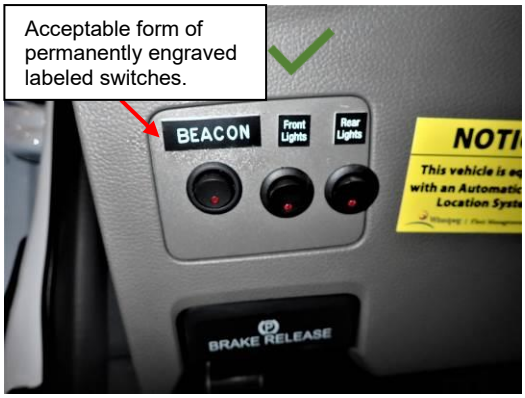
	Finish		
12.111	Preparation	All steel components unless otherwise noted in these specifications shall be sandblasted, properly cleaned and primed	_____
12.112	Primer	Epoxy or Polyurethane	_____
12.113	Paint	Epoxy or Polyurethane	_____
12.114	**Welding**		
12.115	Welds	Continuous welds	_____
12.116	Standard	CSA Standard W47.1-30 and W59-03	_____
12.117	Weld Quality Inspection	• Straight and uniform • Consistent thickness • No spatter drops • No slag, cracking or holes • No dips or craters in the bead • No holes, breaks or cracks in the bead/fillet **Not Acceptable** – cause for rejection. • Lack of uniformity and straightness • Visible spatter • Cracking, undercutting or breaks in the bead • Bead width inconsistent	_____
12.118	Weld Spatter	Weld spatter to be removed prior to finish	_____
	Lighting and Electrical		
12.119	Conformance: • LED Lighting • C.M.V.S.S. (If applicable) • Manitoba Highway Traffic Act. • City of Winnipeg Lighting Visibility Standard http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf		_____
12.120	Lighting: • Supplier installed • High count LED		_____
12.121	Visibility: • No clearance light shall protrude beyond the body		_____

12.122 Identification: _____

- All warning lights and switches to be identified with permanent, engraved type labels
- Mounting of labels with 3M VHB Tape or equivalent. To ensure adhesion to interior surfaces 3M Adhesion Promoter 06396 is a convenient liquid primer for enhancing the adhesion of 3M™ Acrylic Foam Tapes in automotive applications. This adhesion promoter works with most LSE plastics used for interior and exterior automotive trim and parts
- Each circuit shall be colour coded and marked the entire length of the wire with easily read numbers and/or letters for identification



Not Acceptable – Not Permanently Label



Picture above shows example of permanent engraved label switches

12.123 LED Strobe Lights: _____

- Shall be wired “Hot” (i.e. able to use without the key on), wired through a single OEM dash mounted switch or on the control panel enclosure, labelled “Strobes” with a permanent type, engraved style label

12.124 Connection System: _____

- Weather Pack Sealed Connection System or equivalent system having same industry specifications.
- Genuine OEM connectors, terminals, and wire seals are used to guarantee quality and 100% fitment.
  (“J-Box” and shrink tube acceptable)

12.125 Grommets: _____

- Rubber grommets are to be utilized for passing or running wiring through holes in the chassis of panels, unless stated otherwise

12.126 Harnesses: _____

- Harness system properly routed and secured.
- All harnesses shall be internally grounded, no exceptions
- Colour coded or numbered

12.127 Junction box: _____

- Complete with necessary compression fittings, required for all vehicle lighting harness connections
- Securely located
- Readily accessible for servicing
- Protected from road spray

12.128 All Plug-In Connectors: _____

- All plug-in connectors shall be coated with Truck-Lite NYK Corrosion Preventive Compound prior to assembly

12.129 Wiring: _____

- All wiring to be colour coded, loomed and properly secured.
- Genuine OEM connectors, terminals, and wire seals are used to guarantee quality and 100% fitment
- All LED strobe lights shall be wired through the ignition, wired through a single OEM dash mounted switch or on the control panel enclosure, labelled “Strobes” with a permanent type, engraved style label

12.130 Electrical Connectors: _____

- All electrical connectors to be crimped, soldered and then sealed using adhesive-sealant-lined shrink tubing must be used to guarantee joint integrity, waterproofing and strain relief or rubber fittings

Pictures above showing acceptable crimping and sealant using adhesive-sealant-lined shrink tubing must be used to guarantee joint integrity, waterproofing

12.131 Joining of Wires: _____

- All joining of wires to be soldered and sealed using heat shrink tubing or approved OEM weather tight connections

Note: Crimp on electrical connectors for joining wires are not acceptable

12.132 Wiring Routing: _____

- Any holes required to run wires through shall be drilled (not punched), grommeted and sealed

12.133 Circuit Breakers: _____

- Shall be used in lieu of fuses for all circuits requiring overload protection (reset type circuit breakers are preferred)

12.134 Circuit Breakers and Relays: _____

- Shall be located behind quick removable panels,
- Located to be readily accessible for servicing.
- All circuit breakers and relays shall be permanently labelled to indicate their function

12.135 Vapour Sealed: _____

- Electrical wiring shall be vapour sealed to eliminate moisture damage and shall be in accordance with NEMA 4 (National Electrical Manufacturing Association) standards

WARRANTY:

13.1 All warranty information shall be detailed and **include all exclusions**. _____

The Contractor shall provide all published warranty information upon delivery of the equipment.

Bidder shall state all warranty information.

13.2 The warranty for the **Landfill Compactor** shall cover the complete equipment, and all parts thereof against any defects of workmanship, construction and materials. _____

Any equipment that has become defective during said warranty period and has not proven to have been caused by negligence on the part of the user shall be repaired or replaced at no cost to the City.

The warranty shall be effective from the date the equipment is put into service by the City of Winnipeg

Warranty

13.3 Basic Coverage **State:** Terms: _____ _____

DELIVERY:

14.1 **Delivery Point:** _____

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

14.2 **Delivery Time:** _____

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

State: earliest delivery time from date of award: _____

14.3 **Delivery Contact:** _____

The Contractor shall contact the Contract Administrator prior to delivery of the equipment.

14.4 **P.D.I:** _____

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

MANUALS:

15.1 **Manuals:** _____

The following manuals shall be supplied with the equipment when delivered:

Operator – Two (2) Copies
- One (1) copy shall be sent to the Equipment Operator Training Branch
- One (1) copy to be left with the equipment

Parts and Service
- One (1) complete set including preventative maintenance schedules

Note: CD or USB flash drive is preferred where available

PARTS/LABOUR PRICING:

16.1 Bidder to provide City of Winnipeg Parts Discount % Pricing from retail parts pricing. _____
State: percentage discount

16.2 Bidder to provide City of Winnipeg Labor Discount % Pricing from Retail shop labor rate. _____
State: percentage discount

FIRST SERVICE PREVENTATIVE MAINTENANCE KIT:

17.1 If applicable, 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, transmission, cab and hydraulic, or otherwise all known necessary common replacement filters required for the first preventative maintenance servicing and first transmission service. _____

17.2 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. _____