FORM A: BID
(See B8)

1. Contract Title — SUPPLY AND INSTALLATION OF DUMP BODIES FOR TANDEM AXLE CHASSIS

2. Bidder

_____
Name of Bidder

_____
Usual Business Name of Bidder 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 applicable)

The Bidder is:

(Choose one)

☐ 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 AND INSTALLATION OF DUMP BODIES FOR TANDEM AXLE CHASSIS

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	QUANTITY	UNIT PRICE
1.	Supply and Installation of a 16' x 8' Dump Body	17042	Each	1	
2.	Supply and Installation of a 16' x 8' Dump Body including Option 1: Heated Dump Body	17042	Each	1	
3.	Supply and Installation of a 18' x 8' Dump Body	17043	Each	2	

_____
Name of Bidder

FORM N: DETAILED SPECIFICATIONS 17042

16' X 8' DUMP BODY

1.0 DESCRIPTION OF EQUIPMENT/APPLICATION

1.1 These specifications describe **16' x 8' Dump Body** and other equipment and features as specified herein. These units are an integral portion of the City of Winnipeg Civil Maintenance and Waste Water Services Departments' equipment fleet as they are used year round during all seasons. The Trucks will be used for hauling and dumping.

1.2 The **16' x 8' Dump Body** shall be new 2017 model year or newer.

1.3 The **16' x 8' Dump Body** and all other items/components shall be the manufacturer's latest model. The equipment shall be furnished complete and ready for operation. Any parts or accessories not specifically mentioned, but which are required to complete and place the equipment and associated attachments in successful operation shall be furnished as though specifically mentioned in these specifications. The equipment and associated and attachments, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.

2.0 OTHER SPECIFICATIONS AND STANDARDS

2.1 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.

2.2 The **16' x 8' Dump Body** shall comply with the applicable regulations:

- Highway Traffic Act
- Manitoba Motor Vehicle Act
- Canadian Motor Vehicle Safety Standards, CMVSS Transport Canada
- National Safety Mark, NSM
- Manitoba/Winnipeg Safety and Health Act, Parts 12, 22
- Canadian Standards Association, CSA
- Under Writers of Canada, U/L
- Society of Automotive Engineers, SAE
- 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.

2.4 The manufacturer/installer shall be a certified vehicle completer and must affix their National Safety Mark (NSM) certification sticker on each unit.

State NSM number: _____

3.0 SERVICE FACILITY

3.1 For the purpose of warranty repairs, the supplier shall have an authorized service facility located within 10 kilometres 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. Further to B11, 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) Canadian references where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

_____

_____

_____

_____

_____

5.0 MAKE & MODEL

5.1 **State** make and model of the **16' x 8' Dump Body** body 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 **16' x 8' Dump Body**, 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 **16' x 8' Dump Body** 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 N/A

9.0 QUALIFICATIONS OF MANUFACTURER & CONTRACTOR

9.1 The manufacturer of the **16' x 8' Dump Body** shall have five (5) years continuous experience manufacturing **16' x 8' Dump Body**

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 **16' x 8' Dump Body** of the type being offered.

10.0 **SPECIFICATIONS**- _____

CHASSIS:

10.1 **The Dump Body shall be installed on the following:**

2017 International 7400 6x4 SBA

- 54,000 lbs. GVWR, Tandem Axle
- 139.9 in. CA
- Single rail frame, outside frame clear
- Cummings L9, 8.9L, Diesel Engine
- Allison 3500 RDS Series automatic transmission
- Vertical discharge exhaust
- Air brake system
- Air ride suspension

The chassis will be available for pick-up after September 1, 2017.
The Contractor is responsible for pick-up and delivery of the unit.

DUMP BODY SPECIFICATIONS:

10.2	Type	Double Wall Dump Body	_____
10.3	Outside Length	Nominal 16 ft.	_____
10.4	Inside Length	Approximately 15 ft. 6 in.	_____
10.5	Outside Width	To match chassis track width Nominal 8 ft. 6 in.	_____
10.6	Inside Width	Approximately 8 ft.	_____
10.7	Front Height	To match chassis cab height.	_____
10.8	Construction Material (Inside)	All material that touches the material (internal walls, floor, gate, front wall, dog house) used in construction to be 3/16 in. Hardox 450 with **exception of the cab shield.**	_____

10.9	Construction Material (Outside)	10 Gauge 44W Structural Steel	_____
	FLOOR:		
10.10	Material	3/16 in. Hardox 450	_____
10.11	Floor	**Preferred** 1-Piece 2-Piece maximum and pieces shall be continuously welded	_____
10.12	Width	Nominal 80 in. **State:**	_____
10.13	Long Sill Material	3/16 in. formed steel, tapered hat section design, 8 in. – 10 in. height, continuously welded to the floor	_____
10.14	Floor Slope	Approximately 60 degree slope along the joint to the side wall. Slope shall extend upwards approximately 4 - 8 in. **If required design and installation to be determined at a pre-production meeting**.	_____
	FRONT:		
10.15	Front Construction	3/16 in. Hardox 450 continuously welded to sides and floor.	_____
10.16	Front Section	Shall be constructed to incorporate a nominal 12 in. L x 12 in. W x 60 in. H provision (Well Front) to contain the installed hoist	_____
10.17	Cab Shield	Formed from single sheet of mild steel, 24 in. deep, sloped @ 10° or to match cab contour complete with reinforced ends.	_____
10.18	Cab Shield Clearance	Cab shield sides to provide adequate headroom and clearance for entry and egress of vehicle cab.	_____
	SIDES:		
10.19	Construction and Material	Construction – double walled. Outside Material 10 Gauge 44W Inside Material 3/16 in. Hardox 450 Clean side style formed sides without vertical reinforcements, welded into a 1-piece design, including self-cleaning bottom rail and formed, self-cleaning centre horizontal rib and sloped top rail	_____
10.20	Side Height	Approximately 42 in. measured from the floor without plank gussets	_____

10.21	Rear Side Post	3/16 in. Hardox 450, one (1) per side. Note: Back-Up, Strobe and Clearance Lights to be housed in rear posts	_____
10.22	Top Side Rail Material	**Heavy Duty** Rectangular tubing with 3/16 in. wall **State:** size Or Fabricated from 3/16 in. Hardox 450 **State:** method of construction	_____ _____
10.23	Plank Gussets	Gussets to accept 2 in. x 6 in. planks with ½ in. diameter bolt holes.	_____
10.24	Planks	2 in. x 6 in. planks painted black on all sides, installed and bolted in gussets	_____
	TIE DOWNS AND LADDERS:		
10.25	Tie Downs	**Required:** Four (4), Located on inside of dump body. • Two (2) near top/rear of each side • Two (2) near top/front of each side Tie downs shall be counter sunk with D-Rings. Tie downs eyes to have a lifting capacity rated for full box weight for lifting box during installation **Exact locations to be determined at pre-production meeting**	_____
10.26	Inside Steps	One (1) per side, located at rear of body Approximately 12 in. L x 5 in. W, located approximately 20 in. from floor.	_____
10.27	Access Ladders	**Required:** Two (2) • Bolt-on installation • Fold-Down (Retractable) Design • one (1) located curb-side corner • one (1) located driver's side corner **Design and installation to be determined at a pre-production meeting** **Refer to Appendix A**	_____
10.28	Ladder Rungs	Traction type rungs • 13-gauge steel, 2¼ in. width • 4-hole design • Traction Tread Products or equal. **Refer to Appendix A**	_____

10.29	Ladder Rungs Location	First rung to be 18-22 in. from ground level, approximately 14 in. rung spacing to top of body. **Design and location to be determined at a pre-production meeting** **Refer to Appendix A**	_____
10.30	Grab Handles	Located for ergonomic access to top of box. **Design and location to be determined at a pre-production meeting** **Refer to Appendix A**	_____
	TAILGATE:		
10.31	Style	Shall be a top hinge with greaseable fittings Or Two-way with ability to open from top and bottom **Design to be determined at a pre-production meeting**	_____ _____
10.32	Tailgate Height	Approximately 48 in.	_____
10.33	Tailgate Operation	Tailgate shall not protrude above floor in horizontal or full down position. Required only if two-way tailgate is requested	_____
10.34	Standard	There shall be no gap between tailgate and the floor and sides when tailgate is in the closed position.	_____
10.35	Tailgate Construction	Formed construction with one or two equally spaced horizontal or vertical ribs, and a self-cleaning bottom rail. Inside liner with 3/16 in. Hardox 450	_____
10.36	Tailgate Reinforcement	**Required:** Tailgate shall be reinforced with either heavy duty (⅜ in.) end plates, or ¼ in. steel tubing.	_____
10.37	Anchor Pins	Top tailgate anchor pins 1¼ in. diameter, self-locking/storing to top of side posts. Greaseable or composite; top hinge pivot system If retainer pins are used to lock top tailgate anchor pins, then a small steel check chain is required, permanently fastened to the retainer pin.	_____ _____

10.38	Support and Spreader Chains	⅜ in. transport Grade 70, adequately fastened complete with chain storage and two (2) removable links per chain.	_____
		Support and spreader chains shall be equipped with a protective cover.	_____
10.39	Tailgate Locking Mechanism	In-cab control	_____
		The locking mechanism shall be adjustable to ensure adequate lock-up with tailgate closed.	_____
		State: method	_____

TARPAULIN:

10.40	Tarpaulin Type	Electric flip tarp, operable in-cab from driver's seat with aluminum arms. Elbow to ensure arms recess as low as possible along box sides and not in the way of loading.	_____
		State: make, model and type of material	_____
10.41	Tarp System	Tarp system shall stow on the cab shield, i.e., shall not protrude into the box area.	_____
10.42	Tarp Operation	Tarpaulin shall not block the visibility of the mini light bar when tarpaulin is in the stowed position.	_____

HOIST:

10.43 Requirements: _____

3-Stage, front mounted telescopic hoist, nitrided, quenched and polished cylinder stages, protected against corrosion, Mailhot G3 140-5-3

Hoist to be sold, installed and serviced by an authorized dealer

10.44	Make and Model	**State:**	_____
10.45	Bore	Approximately 5 in. **State:**	_____
10.46	Hoist Capacity	Approximately 20 – 30 tons **State:** capacity	_____
10.47	Hoist Dump Angle	45° from horizontal, cylinder must lower under its own weight with empty load in low ambient temperatures.	_____
10.48	Hoist Connection	**Required**: live swivel	_____
10.49	Hoist Grease Fittings	**Required**: on all pivot pins	_____

IN-CAB CONTROLS:

10.50	Controls:	Programmed through OEM dash mounted switches	_____
10.51	Switches	All switches shall be back-lit for night time use and clearly identified with engraved style, permanent type labels. **Switches:** • PTO Engagement • Dump Box Up/Down • Tailgate Open/Close • Amber Lighting • Blue Lighting • Tarp Open/Close 	_____

HYDRAULICS:

10.52	PTO	Muncie or Chelsea electric/hydraulic power shift **State:** make and model	_____ _____
10.53	Hydraulic Pump	**Required:** Transmission mounted PTO Pump to operate the dump body. Parker Dump Pump – no substitutes **State:** make and model	_____ _____
10.54	Requirements	Shall be a 3-Line system	_____
10.55	Suction Line Valve	**Required:** easily accessible, lockable with bolts.	_____
10.56	Hydraulic Oil Reservoir	Right hand side, chassis frame mounted, **Stainless Steel** construction, baffled as required, complete with breather type filler cap with filter, filler strainer and sight gauge.	_____
10.57	Hydraulic Oil	Univis N15 or approved alternate **State:** type	_____

10.58	Capacity	Approximately 25 – 30 gallon **State:** size	_____
10.59	Drain Plug	¾ in. diameter.	_____
10.60	Fittings	**NO:** black steel or cast fittings **State:** type	_____
10.61	Labelling	Reservoir shall be clearly labelled "Hydraulic Oil" with a permanent type, engraved style label.	_____

HYDRAULIC FILTERS:

10.62	Return Filter	Serviceable without oil loss, tank mounted (**Preferred**) complete with clogging indicator.	_____
10.63	Pressure Side Filter	Non-bypass type, absolute rated filter element, located before oil reaches the valve bank, complete with clogging indicator	_____
10.64	Standard	Both filters shall contain a corrosion resistant coating, beta rating of 200, 10 micron particle size, and shall be ergonomically located for servicing.	_____
10.65	External Hydraulic Filter Pan	External Hydraulic filter shall have a stainless steel or aluminium pan located directly under the filter in case of a potential hydraulic leak and to avoid hydraulic fluid falling to the road. Design shall not impede the servicing of the filter.	_____

10.66	Shut-Off Valve	Ball type, located between reservoir and pump, secured in open position with a bracket and bolt.	_____
10.67	Hydraulic Hoses	Wire braid reinforced, rated for system operating pressure with 4 to 1 safety factor for burst pressure.	_____
10.68	Protection	Hydraulic hoses to be protected at wear and scuff location.	_____

10.69	Hose Fittings	Hydraulic full flow, crimp-on (non-reusable) type.	_____
	ELECTRICAL & LIGHTING:		
10.70	Conformance	All lighting to conform to C.M.V.S.S. and Manitoba Highway Traffic Act.	_____
10.71	Lighting	Supplier installed shall be **high count** LED lighting and shall be Truck-Lite, Grote **or equivalent**	_____
10.72	Grommets	Rubber grommets	_____
10.73	Combination Turn/Stop and Taillights	One (1) per side with mounting grommets, flash rate 70-90 fpm.	_____
10.74	Back-Up Lights	One (1) per side with mounting grommets.	_____
10.75	Light Cluster	Three (3) with mounting grommets, located to be protected from damage.	_____
10.76	Rear Light Mounting Location	Taillights, back-up lights, 3-light cluster and rear-corner mounted clearance lights shall be mounted in the rear sill of the dump body. The lights shall be situated so that no debris contacts the lights while dumping.	_____
10.77	Clearance Lamps	High count LED with mounting grommets.	_____
10.78	Clearance Lamp Mounting Locations	Front – two (2), located one on each bottom corner Sides – two (2) per side, located on front and rear bottom corners. Rear – two (2), located one on each bottom corner.	_____
10.79	Standard	No clearance light shall protrude beyond the dump body.	_____
10.80	Standard	Taillights and back-up lights shall be fully visible when tailgate is lowered to horizontal position.	_____
10.81	Licence Plate Lamp	Complete with licence plate bracket and shall be mounted in the rear sill of the dump body	_____
10.82	Harnesses	Harness system, properly routed and secured. All harnesses shall be internally grounded, no exceptions.	_____

10.83	Junction Box	Junction box complete with necessary compression fittings, required for all vehicle lighting harness connections, located inside rear of truck frame.	_____
10.84	All Plug-In Connectors	All plug-in connectors shall be coated with NYK compound prior to assembly.	_____
10.85	Back-Up Alarm	97 dB (A), installed near rear of dump body, located to be protected from damage.	_____
10.86	Mini Light Bar	Whelen L31HABF Blue/Amber LED beacon mounted to top of cab guard, 360° visibility when tarpaulin is in stowed position. Beacon shall be wired through the ignition, wired through a single OEM dash mounted switch or on the control panel enclosure, labelled “Light Bar Amber/Blue” with a permanent type, engraved style label. Switch shall be capable of blue or amber mode.	_____
			
			
10.87	Branch Guard	Heavy duty branch guard constructed by ⅜ in. round bar or equivalent.	_____
10.88	Blue Strobe Lights	Two (2) oval LED strobe lights rear facing in rear corner pillars, one per side.	_____
10.89	Amber Strobe Lights	Two (2) oval LED strobe lights rear facing in rear corner pillars, one per side	_____
10.90	Wiring	All four 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. All wiring for back-up alarm, warning lights, strobes and trailer connector shall be colour coded, loomed and properly secured.	_____

10.91	Trailer Connector	SAE J560 7 way primary trailer receptacle.	_____
10.92	Electrical Connectors	All electrical connectors shall be crimped and soldered, and then sealed using heat shrink tubing.	_____
10.93	Joining of Wires	All joining of wires shall be soldered and sealed using heat shrink tubing or approved OEM weather tight connections (crimp on electrical connectors for joining wires are not acceptable).	_____
10.94	Wiring Routing	**Required:** Any holes to run wires through shall be drilled (not punched), grommeted and sealed	_____
	WELDING:		
10.95	Standard	All welds shall be continuous welds. All welding performed shall conform to CSA Standard W47.1-03 and W59-03.	_____
	INSTALLATION:		
10.96	Drilling	Any holes required in the chassis frame web must be drilled and reamed to fit bolts.	_____
10.97	Standard	Drilling on chassis frame flanges is not permitted. Welding on the chassis frame is not permitted, with the exception of installation of dump body pivot support.	_____
10.98	Tire Clearance	Three inches (3 in.) with rear suspension air bags lowered.	_____
10.99	Clearance	Clearance between dump body and back of truck cab shall be 3 in.	_____

MISCELLANEOUS:

10.100 Rear Hitch Plate

¾ in. thick solid steel, (laminated plates not acceptable) installed to chassis frame

Preferred: No Over Hang

Design and installation to be determined at a pre-production meeting.

_____

10.101 "A" Frame Hitch Reinforcement

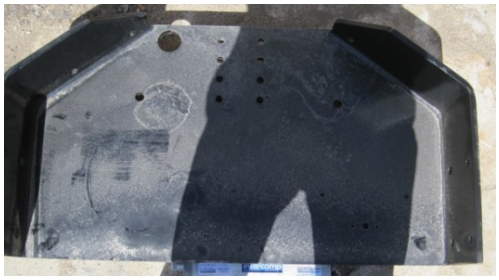
3 in. x 3 in. x ¼ in. angle iron, welded to back of hitch plate and bolted to chassis frame web.

Design and installation to be determined at a pre-production meeting.

_____

10.102 Rear Hitch Plate – Optional Design

Fabricate and weld or bolt-on



Design and installation to be determined at a pre-production meeting.

_____

10.103 Pintle Hitch

Premier 240 or approved equal, installed on hitch plate at a 24 in. height.

_____

10.104	Shovel / Rake Holder	**Required:** shovel / rake holder **State:** location  **Location to be determined at a pre-production meeting.**	_____
10.105	Lunette Eyes for Trailer Safety Chains	One (1) each side of hitch, Buyers Products B48 or equal.	_____
10.106	Rear Fenders	Heavy Duty rear poly half-moon fenders. Shall be installed to have sufficient clearance from body and when chassis suspension is dumped for dump body operation. 	_____
10.107	Mud Flaps	**Required:** Black rubber, no-name, front and rear of back tires complete with anti-sail bracket on each mud-flap. Rear mud flaps shall not contact the ground when the dump body is at maximum dump angle Acceptable to bolt directly to fender.	_____
10.108	Front Bumper Markers	**Required:**	_____
10.109	Isolators	All interfaces between aluminium and steel shall be separated by a minimum of 1/16 in. thick rubber or neoprene sheet and are to be bolted through with stainless steel bolts and non-conductive bushings	_____
10.110	Grease Fittings	**Required**: on tailgate release mechanisms, pivot points and tailgate	_____

GREASING SYSTEM:

10.111 Automatic Greasing System - Complete dump body and chassis shall be supplied with a Groeneveld/CPL Systems Inc. or Lubecore automatic greasing system including all required grease points on dump body, approximately twenty-six (26) points on cab & chassis, and automatic low level shut-off with in-cab red light indicator. _____
State: make and model _____

TOOLBOXES:

10.112 Tool Boxes

Required: Aluminum Tool Boxes _____
Approximately 24 in. x 24 in. x 48 in.
Barn Door style doors.
State: qty, dimensions, material, and recommended location as set by the manufacturer

SAFETY:

10.113 Dump Body Prop

Double Prop Design _____

- Steel tubing construction, to support dump body in raised position and permit servicing of hoist
- Operable by a single person
- Designed so as not to interfere with hoist cylinder or surroundings
- Operating Handle to be positioned outside of chassis frame rails for operator safety
- Dump body prop to be complete with receiving bracket.

Design and installation to be confirmed at a pre-production meeting.

10.114	Dump Body Prop Colours	All components (prop, handle and receiving bracket) shall be painted with **Safety Orange** for ease of identification	_____
10.115	Dump Body Stowage Warning System	**Required:** Warning light and buzz system shall be installed on the dash and shall be actuated when dump body is not in the fully stowed position. **State:**	_____
10.116	PTO	Programmed to disengage the PTO when 10 kph is reached to prevent the driver from driving off when the body is up.	_____
10.117	Pre-Trip Exterior Light Inspection	**Programmed:** When activated, the vehicle lights repeatedly flash in a specific sequence to allow the operator to verify that the exterior lights are functioning. The light test sequence tests: • Park Lights • Headlights (low and high beams) • Right/left front/rear turn lights • Brakes lights	_____
	FINISH:		
10.118	Preparation	All hitch plates, reservoirs, steel brackets, etc. shall be sandblasted, properly cleaned, primed and finished with the Endura paint process as follows:	_____
10.119	Primer	DuPont or Endura EP32 Intermix Epoxy Primer.	_____
10.120	Paint	3-5 mils of Endura EX-2C Topcoat or DuPont, black.	_____

Option 1: HEATED DUMP BODY

Note:
The heated dump body shall be priced separately as indicated on the Form B: Prices

HEAT SYSTEM

10.121	Type	Heating system shall be provided by the exhaust system of the truck chassis	_____
10.122	Diverter box	Manual diverter box to select exhaust routing through dump body or truck vertical exhaust discharge	_____
10.123	Spring box	Supported by heavy duty bracket(s) mounted to chassis frame. Spring box shall couple to dump body where dump body exhaust inlet meets the truck exhaust discharge.	_____
10.124	Exhaust routing	Routed through long sills and along each side of dump body along floor	_____
10.125	Exhaust discharge	Discharge to be from end of floor sills and/or One (1) discharge outlet per side located at top of rear corner pillars. **State:** locations **Location of discharge to be determined at pre-production meeting**	_____

11.0 **WARRANTY**

11.1	The warranty on the complete dump body and attachments shall include 100% replacement parts and labour at no cost to the City and shall cover the complete equipment and all parts thereof against defects of workmanship, construction and materials for one (1) year from the date the equipment is put into service by the City of Winnipeg.		_____
11.2	All warranty information shall be detailed and include all exclusions. The successful bidder shall provide all published warranty information upon delivery of the equipment. Bidder shall State: all warranty information		_____
11.3	Hydraulic Warranty	One (1) year **State:**	_____
11.4	Hoist and Cylinder Warranty	One (1) year **State:**	_____
11.5	Electrical Warranty	One (1) year **State:**	_____
11.6	LED Lighting Warranty	One (1) year **State:**	_____

12.0 **DELIVERY**

12.1 Delivery Point: The complete unit shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.I.V.S. (if applicable) to the WFMA 185 Tecumseh Street, Winnipeg MB. The successful bidder shall be notified by the Contractor Administrator the delivery address prior to issuance of the purchase order _____

12.2 Delivery Time: **Twelve (12) - Fourteen (14) calendar weeks** from the date of award. _____
Equipment shall be delivered between 8:00 am and 2:00 pm on Business Days.

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 Manuals supplied under this Contract shall cover the complete equipment including all components thereof, CD or USB flash drive is preferred where available. _____

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

a) Operator's manual – Two (2) per unit (one operator manual shall be sent to the Equipment Operator Training Branch _____

b) Parts and Service Manuals – One (1) complete set including preventative maintenance schedules. CDs or USB flash drive are preferred. _____

14.0 **PARTS/LABOUR DISCOUNT**

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 shall 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 shall 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. _____

FORM N: DETAILED SPECIFICATIONS 17043

18' X 8' DUMP BODY

1.0 DESCRIPTION OF EQUIPMENT/APPLICATION

1.1 These specifications describe **18' x 8' Dump Body** and other equipment and features as specified herein. These units are an integral portion of the City of Winnipeg Forestry and DED Control Departments' equipment fleet as they are used year round during all seasons. The Trucks will be used for hauling and dumping.

1.2 The **18' x 8' Dump Body** shall be new 2017 model year or newer.

1.3 The **18' x 8' Dump Body** and all other items/components shall be the manufacturer's latest model. The equipment shall be furnished complete and ready for operation. Any parts or accessories not specifically mentioned, but which are required to complete and place the equipment and associated attachments in successful operation shall be furnished as though specifically mentioned in these specifications. The equipment and associated and attachments, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.

2.0 OTHER SPECIFICATIONS AND STANDARDS

2.1 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.

2.2 The **18' x 8' Dump Body** shall comply with the applicable regulations:

- Highway Traffic Act
- Manitoba Motor Vehicle Act
- Canadian Motor Vehicle Safety Standards, CMVSS Transport Canada
- National Safety Mark, NSM
- Manitoba/Winnipeg Safety and Health Act, Parts 12, 22
- Canadian Standards Association, CSA
- Under Writers of Canada, U/L
- Society of Automotive Engineers, SAE
- 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.

2.4 The manufacturer/installer shall be a certified vehicle completer and must affix their National Safety Mark (NSM) certification sticker on each unit.

State NSM number: _____

3.0 SERVICE FACILITY

3.1 For the purpose of warranty repairs, the supplier shall have an authorized service facility located within 10 kilometres 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. Further to B11, 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) Canadian references where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

_____

_____

_____

_____

_____

5.0 MAKE & MODEL

5.1 **State** make and model of the **18' x 8' Dump Body** body 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 **18' x 8' Dump Body**, 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 **18' x 8' Dump Body** 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 N/A

9.0 QUALIFICATIONS OF MANUFACTURER & CONTRACTOR

9.1 The manufacturer of the **18' x 8' Dump Body** shall have five (5) years continuous experience manufacturing **18' x 8' Dump Body**

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 **18' x 8' Dump Body** of the type being offered.

10.0 **SPECIFICATIONS**- _____

CHASSIS:

10.1 **The Dump Body shall be installed on the following:**

2017 International 7400 6x4 SBA

- 54,000 lbs. GVWR, Tandem Axle
- 158.9 in. CA
- Single rail frame, outside frame clear
- Cummings L9, 8.9L, Diesel Engine
- Allison 3500 RDS Series automatic transmission
- Vertical discharge exhaust
- Air brake system
- Air ride suspension

The chassis will be available for pick-up after September 1, 2017.
The Contractor is responsible for pick-up and delivery of the unit.

DUMP BODY SPECIFICATIONS:

10.2	Type	Double Wall Dump Body	_____
10.3	Outside Length	Nominal 18 ft.	_____
10.4	Inside Length	Approximately 17 ft. 6 in.	_____
10.5	Outside Width	To match chassis track width Nominal 8 ft. 6 in.	_____
10.6	Inside Width	Approximately 8 ft.	_____
10.7	Front Height	To match chassis cab height.	_____
10.8	Construction Material (Inside)	All material that touches the material (internal walls, floor, gate, front wall, dog house) used in construction to be 3/16 in. Hardox 450 with **exception of the cab shield.**	_____

10.9	Construction Material (Outside)	10 Gauge 44W Structural Steel	_____
	FLOOR:		
10.10	Material	3/16 in. Hardox 450	_____
10.11	Floor	**Preferred** 1-Piece 2-Piece maximum and pieces shall be continuously welded	_____
10.12	Width	Nominal 80 in. **State:**	_____
10.13	Long Sill Material	3/16 in. formed steel, tapered hat section design, 8 in. – 10 in. height, continuously welded to the floor	_____
10.14	Floor Slope	Approximately 60 degree slope along the joint to the side wall. Slope shall extend upwards approximately 4 - 8 in. **If required design and installation to be determined at pre-production meeting.**	_____
	FRONT:		
10.15	Front Construction	3/16 in. Hardox 450 continuously welded to sides and floor.	_____
10.16	Front Section	Shall be constructed to incorporate a nominal 12 in. L x 12 in. W x 60 in. H provision (Well Front) to contain the installed hoist.	_____
10.17	Cab Shield	Formed from single sheet of mild steel, 24 in. deep, sloped @ 10° or to match cab contour complete with reinforced ends.	_____
10.18	Cab Shield Clearance	Cab shield sides to provide adequate headroom and clearance for entry and egress of vehicle cab.	_____
	SIDES:		
10.19	Construction and Material	Construction – double walled. Outside Material 10 Gauge 44W Inside Material 3/16 in. Hardox 450 Clean side style formed sides without vertical reinforcements, welded into a 1-piece design, including self-cleaning bottom rail and formed, self-cleaning centre horizontal rib and sloped top rail	_____
10.20	Side Height	Approximately 48 in. measured from the floor without plank gussets	_____

10.21	Rear Side Post	3/16 in. Hardox 450, one (1) per side. Note: Back-Up, Strobe and Clearance Lights to be housed in rear posts	_____
10.22	Top Side Rail Material	**Heavy Duty** Rectangular tubing with 3/16 in. wall **State:** size Or Fabricated from 3/16 in. Hardox 450 **Note:** Top Rail shall be able to withstand heavy impacts from large tree stumps and tree trunks **State:** method of construction	_____ _____ _____
10.23	Plank Gussets	Gussets to accept 2 in. x 6 in. planks with ½ in. diameter bolt holes.	_____
10.24	Planks	2 in. x 6 in. planks painted black on all sides, installed and bolted in gussets	_____
	TIE DOWNS AND LADDERS:		
10.25	Tie Downs	**Required:** Four (4), Located on inside of dump body. • Two (2) near top/rear of each side • Two (2) near top/front of each side Tie downs shall be counter sunk with D-Rings. Tie downs eyes to have a lifting capacity rated for full box weight for lifting box during installation **Exact locations to be determined upon a pre-production meeting**	_____
10.26	Inside Steps	One (1) per side, located at rear of body Approximately 12 in. L x 5 in. W, located approximately 20 in. from floor.	_____
10.27	Access Ladders	**Required:** Two (2) • Bolt-on installation • Fold-Down (Retractable) Design • one (1) located curb-side corner • one (1) located driver's side corner **Design and installation to be determined at a pre-production meeting** **Refer to Appendix A**	_____

10.28	Ladder Rungs	Traction type rungs • 13-gauge steel, 2¼ in. width • 4-hole design • Traction Tread Products or equal. **Refer to Appendix A**	_____
10.29	Ladder Rungs Location	First rung to be 18-22 in. from ground level, approximately 14 in. rung spacing to top of body. **Design and location to be determined at a pre-production meeting** **Refer to Appendix A**	_____
10.30	Grab Handles	Located for ergonomic access to top of box. **Design and location to be determined at a pre-production meeting** **Refer to Appendix A**	_____
	TAILGATE:		
10.31	Style (Barn Door)	Two (2) swing-out doors, hinged on rear side posts, centred latched.	_____
10.32	Air Operated Safety Latch	**Required:** To prevent tailgate from only being opened manually	_____
10.33	Tailgate Height	Approximately 48 in.	_____
10.34	Tailgate Operation	The right side door shall overlap the left side door.	_____
10.35	Standard	There shall be no gap between tailgate and the floor and sides when tailgate is in the closed position.	_____
10.36	Tailgate Construction	Formed construction with one or two equally spaced horizontal or vertical ribs, and a self-cleaning bottom rail. Inside liner with 3/16 in. Hardox 450	_____
10.37	Tailgate Reinforcement	**Required:** Tailgate shall be reinforced with either heavy duty (⅜ in.) end plates, or ¼ in. steel tubing.	_____

TARPAULIN:

10.38	Tarpaulin Type	Electric flip tarp, operable in-cab from driver's seat with aluminum arms. Elbow to ensure arms recess as low as possible along box sides and not in the way of loading.	_____
		State: make, model and type of material	_____
10.39	Tarp System	Tarp system shall stow on the cab shield, i.e., shall not protrude into the box area.	_____
10.40	Tarp Operation	Tarpaulin shall not block the visibility of the mini light bar when tarpaulin is in the stowed position.	_____

HOIST:

10.41 Requirements: _____

4-Stage, front mounted telescopic hoist, nitrided, quenched and polished cylinder stages, protected against corrosion, Mailhot G3 180-5.7-4.

Hoist to be sold, installed and serviced by an authorized dealer

10.42	Make and Model	**State:**	_____
10.43	Bore	Approximately 6 in. **State:**	_____
10.44	Hoist Capacity	Approximately 25 - 35 tons **State:** capacity	_____
10.45	Hoist Dump Angle	45° from horizontal, cylinder must lower under its own weight with empty load in low ambient temperatures.	_____
10.46	Hoist Connection	**Required**: live swivel	_____
10.47	Hoist Grease Fittings	**Required**: on all pivot pins.	_____

IN-CAB CONTROLS:

10.48	Controls	Programmed through OEM dash mounted switches	_____
10.49	Switches	All switches shall be back-lit for night time use and clearly identified with engraved style, permanent type labels. **Switches:** • PTO Engagement • Dump Box Up/Down • Tailgate Open/Close • Amber Lighting • Blue Lighting • Tarp Open/Close 	_____

HYDRAULICS:

10.50	PTO	Muncie or Chelsea electric/hydraulic power shift **State:** make and model	_____
10.51	Hydraulic Pump	**Required:** Transmission mounted PTO Pump to operate the dump body. Parker Dump Pump – no substitutes **State:** make and model	_____
10.52	Requirements	Shall be a 3-Line system	_____
10.53	Suction Line Valve	**Required:** easily accessible, lockable with bolts.	_____
10.54	Hydraulic Oil Reservoir	Right hand side, chassis frame mounted, **Stainless Steel** construction, baffled as required, complete with breather type filler cap with filter, filler strainer and sight gauge.	_____
10.55	Hydraulic Oil	Univis N15 or approved alternate **State:** type	_____
10.56	Capacity	Approximately 25 – 30 gallon **State:** size	_____

10.57	Drain Plug	¾ in. diameter.	_____
10.58	Labelling	Reservoir shall be clearly labelled "Hydraulic Oil" with a permanent type, engraved style label.	_____

HYDRAULIC FILTERS:

10.59	Return Filter	Serviceable without oil loss, tank mounted (**Preferred**) complete with clogging indicator.	_____
10.60	Pressure Side Filter	Non-bypass type, absolute rated filter element, located before oil reaches the valve bank, complete with clogging indicator	_____
10.61	Standard	Both filters shall contain a corrosion resistant coating, beta rating of 200, 10 micron particle size, and shall be ergonomically located for servicing.	_____
10.62	External Hydraulic Filter Pan	External Hydraulic filter shall have a stainless steel or aluminium pan located directly under the filter in case of a potential hydraulic leak and to avoid hydraulic fluid falling to the road. Design shall not impede the servicing of the filter.	_____

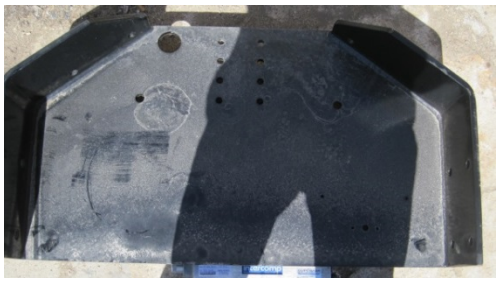
10.63	Shut-Off Valve	Ball type, located between reservoir and pump, secured in open position with a bracket and bolt.	_____
10.64	Hydraulic Hoses	Wire braid reinforced, rated for system operating pressure with 4 to 1 safety factor for burst pressure.	_____
10.65	Protection	Hydraulic hoses to be protected at wear and scuff location.	_____
10.66	Hose Fittings	Hydraulic full flow, crimp-on (non-reusable) type.	_____

ELECTRICAL & LIGHTING:

10.67	Conformance	All lighting to conform to C.M.V.S.S. and Manitoba Highway Traffic Act.	_____
10.68	Lighting	Supplier installed shall be **high count** LED lighting and shall be Truck-Lite, Grote **or equivalent**	_____
10.69	Grommets	Rubber grommets	_____
10.70	Combination Turn/Stop and Taillights	One (1) per side with mounting grommets, flash rate 70-90 fpm.	_____
10.71	Back-Up Lights	One (1) per side with mounting grommets.	_____
10.72	Light Cluster	Three (3) with mounting grommets, located to be protected from damage.	_____
10.73	Rear Light Mounting Location	Taillights, back-up lights, 3-light cluster and rear-corner mounted clearance lights shall be mounted in the rear sill of the dump body. The lights shall be situated so that no debris contacts the lights while dumping.	_____
10.74	Clearance Lamps	High count LED with mounting grommets.	_____
10.75	Clearance Lamp Mounting Locations	Front – two (2), located one on each bottom corner Sides – two (2) per side, located on front and rear bottom corners. Rear – two (2), located one on each bottom corner.	_____
10.76	Standard	No clearance light shall protrude beyond the dump body.	_____
10.77	Standard	Taillights and back-up lights shall be fully visible when tailgate is open 90°	_____
10.78	Licence Plate Lamp	Complete with licence plate bracket and shall be mounted in the rear sill of the dump body	_____
10.79	Harnesses	Harness system, properly routed and secured. All harnesses shall be internally grounded, no exceptions.	_____
10.80	Junction Box	Junction box complete with necessary compression fittings, required for all vehicle lighting harness connections, located inside rear of truck frame.	_____

10.81	All Plug-In Connectors	All plug-in connectors shall be coated with NYK compound prior to assembly.	_____
10.82	Back-Up Alarm	97 dB (A), installed near rear of dump body, located to be protected from damage.	_____
10.83	Mini Light Bar	Whelen L31HABF Blue/Amber LED beacon mounted to top of cab guard, 360° visibility when tarpaulin is in stowed position. Beacon shall be wired through the ignition, wired through a single OEM dash mounted switch or on the control panel enclosure, labelled “Light Bar Amber/Blue” with a permanent type, engraved style label. Switch shall be capable of blue or amber mode.  	_____
10.84	Branch Guard	Heavy duty branch guard constructed by ⅜ in. round bar or equivalent.	_____
10.85	Blue Strobe Lights	Two (2) oval LED strobe lights rear facing in rear corner pillars, one per side.	_____
10.86	Amber Strobe Lights	Two (2) oval LED strobe lights rear facing in rear corner pillars, one per side	_____
10.87	Wiring	All four 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. All wiring for back-up alarm, warning lights, strobes and trailer connector shall be colour coded, loomed and properly secured.	_____
10.88	Trailer Connector	SAE J560 7 way primary trailer receptacle.	_____
10.89	Electrical Connectors	All electrical connectors shall be crimped and soldered, and then sealed using heat shrink tubing.	_____

10.90	Joining of Wires	All joining of wires shall be soldered and sealed using heat shrink tubing or approved OEM weather tight connections (crimp on electrical connectors for joining wires are not acceptable).	_____
10.91	Wiring Routing	**Required:** Any holes to run wires through shall be drilled (not punched), grommeted and sealed	_____
	WELDING:		
10.92	Standard	All welds shall be continuous welds. All welding performed shall conform to CSA Standard W47.1-03 and W59-03.	_____
	INSTALLATION:		
10.93	Drilling	Any holes required in the chassis frame web must be drilled and reamed to fit bolts.	_____
10.94	Standard	Drilling on chassis frame flanges is not permitted. Welding on the chassis frame is not permitted, with the exception of installation of dump body pivot support.	_____
10.95	Tire Clearance	Three inches (3 in.) with rear suspension air bags lowered.	_____
10.96	Clearance	Clearance between dump body and back of truck cab shall be 3 in.	_____
	MISCELLANEOUS:		
10.97	Rear Hitch Plate	¾ in. thick solid steel, (laminated plates not acceptable) installed to chassis frame **Preferred:** No Over Hang  **Design and installation to be determined at a pre-production meeting**.	_____

10.98	"A" Frame Hitch Reinforcement	3 in. x 3 in. x ¼ in. angle iron, welded to back of hitch plate and bolted to chassis frame web. **Design and installation to be determined at a pre-production meeting**.	_____
10.99	Rear Hitch Plate – Optional Design	Fabricate and bolt-on  **Design and installation to be determined at a pre-production meeting**.	_____
10.100	Pintle Hitch	Premier 240 or approved equal, installed on hitch plate at a 24 in. height.	_____
10.101	Shovel / Rake Holder	**Required:** shovel / rake holder **State:** exact location  **Location to be determined at a pre-production meeting.**	_____
10.102	Lunette Eyes for Trailer Safety Chains	One (1) each side of hitch, Buyers Products B48 or equal.	_____

10.103	Rear Fenders	Heavy Duty rear poly half-moon fenders. Shall be installed to have sufficient clearance from body and when chassis suspension is dumped for dump body operation. 	_____
10.104	Mud Flaps	**Required:** Black rubber, no-name, front and rear of back tires complete with anti-sail bracket on each mud-flap. Rear mud flaps shall not contact the ground when the dump body is at maximum dump angle Acceptable to bolt directly to fender.	_____
10.105	Front Bumper Markers	**Required:**	_____
10.106	Isolators	All interfaces between aluminium and steel shall be separated by a minimum of 1/16 in. thick rubber or neoprene sheet and are to be bolted through with stainless steel bolts and non-conductive bushings	_____
10.107	Grease Fittings	**Required**: on tailgate release mechanisms, pivot points and tailgate	_____

GREASING SYSTEM:

10.108	Automatic Greasing System - Complete dump body and chassis shall be supplied with a Groeneveld/CPL Systems Inc. or Lubecore automatic greasing system including all required grease points on dump body, approximately twenty-six (26) points on cab & chassis, and automatic low level shut-off with in-cab red light indicator.	_____
	State: make and model	_____

TOOLBOXES:

10.109 Tool Boxes

Required: Aluminum Tool Boxes Approximately 24 in. x 24 in. x 48 in. Barn Door style doors.
State: qty, dimensions, material, and recommended location as set by the manufacturer

_____

SAFETY:

10.110 Dump Body Prop

Double Prop Design

- Steel tubing construction, to support dump body in raised position and permit servicing of hoist
- Operable by a single person
- Designed so as not to interfere with hoist cylinder or surroundings
- Operating Handle to be positioned outside of chassis frame rails for operator safety
- Dump body prop to be complete with receiving bracket.

Design and installation to be confirmed at a pre-production meeting.

_____

10.111 Dump Body Prop Colours

All components (prop, handle and receiving bracket) shall be painted with **Safety Orange** for ease of identification

_____

10.112	Dump Body Stowage Warning System	**Required:** Warning light and buzz system shall be installed on the dash and shall be actuated when dump body is not in the fully stowed position. **State:**	_____
10.113	PTO	Programmed to disengage the PTO when 10 kph is reached to prevent the driver from driving off when the body is up.	_____
10.114	Pre-Trip Exterior Light Inspection	**Programmed:** When activated, the vehicle lights repeatedly flash in a specific sequence to allow the operator to verify that the exterior lights are functioning. The light test sequence tests: • Park Lights • Headlights (low and high beams) • Right/left front/rear turn lights • Brakes lights	_____

FINISH:

10.115	Preparation	All hitch plates, reservoirs, steel brackets, etc. shall be sandblasted, properly cleaned, primed and finished with the Endura paint process as follows:	_____
10.116	Primer	DuPont or Endura EP32 Intermix Epoxy Primer.	_____
10.117	Paint	3-5 mils of Endura EX-2C Topcoat or DuPont, black.	_____

11.0 WARRANTY

11.1	The warranty on the complete dump body and attachments shall include 100% replacement parts and labour at no cost to the City and shall cover the complete equipment and all parts thereof against defects of workmanship, construction and materials for one (1) years from the date the equipment is put into service by the City of Winnipeg.		_____
11.2	All warranty information shall be detailed and include all exclusions. The successful bidder shall provide all published warranty information upon delivery of the equipment. Bidder shall State: all warranty information		_____
11.3	Hydraulic Warranty	One (1) year **State:**	_____
11.4	Hoist and Cylinder Warranty	One (1) year **State:**	_____

11.5	Electrical Warranty	One (1) year **State:**	_____
11.6	LED Lighting Warranty	One (1) year **State:**	_____

12.0 **DELIVERY**

12.1 Delivery Point: The complete unit shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.I.V.S. (if applicable) to the WFMA 185 Tecumseh Street, Winnipeg MB. The successful bidder shall be notified by the Contractor Administrator the delivery address prior to issuance of the purchase order _____

12.2 Delivery Time: **Twelve (12) - Fourteen (14) calendar weeks** from the date of award. _____
Equipment shall be delivered between 8:00 am and 2:00 pm on Business Days.

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 Manuals supplied under this Contract shall cover the complete equipment including all components thereof, CD or USB flash drive is preferred where available. _____

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

a) Operator's manual – Two (2) per unit (one operator manual shall be sent to the Equipment Operator Training Branch _____

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15.1 In order to assure minimum downtime of the equipment in future service, the Contractor shall 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. _____

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