

FORM A: BID
(See B7)

1. Contract Title SUPPLY & DELIVERY OF A 60,000 LBS. TANDEM TRUCK

2. Bidder

Name of Bidder

Street

City

Province

Postal Code

Facsimile Number

(Mailing address if different)

Street or P.O. Box

City

Province

Postal Code

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

E-mail 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 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 B8)

SUPPLY & DELIVERY OF A 60,000 LBS. TANDEM TRUCK

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
1.	60,000 lbs. Tandem Truck	1072	(Each)	(1)	\$ _____	\$ _____

TOTAL BID PRICE (GST and MRST extra) (in figures) \$ _____

(in words) _____

Name of Bidder

FORM N: DETAILED SPECIFICATIONS 1072

1.0 DESCRIPTION OF EQUIPMENT AND PERFORMANCE-

- 1.1 These specifications describe the **Supply and Delivery of 60,000 lbs. Tandem Truck** and other equipment and features as specified herein.
- 1.2 The Tandem Truck Chassis shall be a new 2010 or 2011 model year.
- 1.3 Shall be capable of consistent top performance for the wrecker body application
- 1.4 The 60,000 lbs. Tandem Truck and all other items/components shall be the manufacturer's latest models. 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 in successful operation shall be furnished as though specifically mentioned in these specifications. The complete **60,000 lbs. Tandem Truck**, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry. The following chassis specifications describe the minimum requirements for one (1) 2010 two 2-axle heavy-duty truck with 40 ton hydraulic tow wrecker body with a fully hydraulic under lift and heavy duty recovery boom system. The truck shall have a conventional cab with "sloped hood" and frame compatible with the installation of a 40-ton hydraulic wrecker with a low-rider under-lift. The cab and chassis shall be fitted as specified hereinafter and as required for a complete functional vehicle that will meet the performance requirements outlined in this document. It will be the responsibility of the contractor to ensure the completed vehicle shall meet all performance specifications that are required by the wrecker manufacture and outlined herein, including the engine, transmission, and differential gear ratios.

The contact person for wrecker body as follows:

**Miller industries
Mark Dyer, P.E.
Engineering Manager
Heavy Wrecker Platform
Miller Industries Towing
Phone (423) 238-4193 x 235
Fax (423) 238-5371
mdyer@millerind.com**

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 **60,000 lbs. Tandem Truck** and all its components and attachments shall comply with the applicable regulations:

[Highway Traffic Act = http://web2.gov.mb.ca/laws/statutes/ccsm/h060e.php](http://web2.gov.mb.ca/laws/statutes/ccsm/h060e.php)

[Manitoba Motor Vehicle Act = http://www.tc.gc.ca/acts-regulations/GENERAL/M/mvsa/menu.htm](http://www.tc.gc.ca/acts-regulations/GENERAL/M/mvsa/menu.htm)

[Canadian Motor Vehicle Safety Standards, CMVSS = http://www.gnb.ca/0062/regs/83-163.htm](http://www.gnb.ca/0062/regs/83-163.htm)

[Transport Canada = http://laws.justice.gc.ca/en/notice/index.html?redirect=%2Fen%2FM-10.01%2F250448.html](http://laws.justice.gc.ca/en/notice/index.html?redirect=%2Fen%2FM-10.01%2F250448.html)

[National Safety Mark, NSM = http://www.tc.gc.ca/acts-regulations/GENERAL/M/mvsa/regulations/mvsrg/001/mvsr3-5.html](http://www.tc.gc.ca/acts-regulations/GENERAL/M/mvsa/regulations/mvsrg/001/mvsr3-5.html)

[Manitoba/Winnipeg Safety and Health Act, Parts 12, 22 =](http://web2.gov.mb.ca/laws/statutes/ccsm/w210e.php)
<http://web2.gov.mb.ca/laws/statutes/ccsm/w210e.php> and <http://www.gov.mb.ca/labour/safety/>

[Canadian Standards Association, CSA = http://www.csa.ca/about/Default.asp?language=english](http://www.csa.ca/about/Default.asp?language=english)

[Under Writers of Canada, U/L = http://www.ulc.ca/](http://www.ulc.ca/)

[Society of Automotive Engineers, SAE =](http://en.wikipedia.org/wiki/Society_of_Automotive_Engineers)
http://en.wikipedia.org/wiki/Society_of_Automotive_Engineers

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.

2.0 **SERVICE FACILITY**

2.1 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 B9.1, Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

3.0 **CHASSIS SPECIFICATIONS-**

3.1	Total GVWR	60,000 lbs. GVWR	_____
3.2	Front GVWR	20,000 lbs. GVWR	_____
3.3	Rear GVWR	40,000 lbs. GVWR	_____

4.0 **DIMENSIONS-**

4.1	Cab to Axle	As required for a wrecker body,"204 clear CA. Outside and above frame must be free from fuel tanks, exhaust components, DEF tanks, and air dryers. Air tanks should be below and under the rail, not flange mounted and not perpendicular mounted behind the cab	_____
4.2	Wheelbase	As required for a a wrecker body State WB-	_____
4.3	Turning radius	State turning radius-	_____

5.0 ENGINE-

5.1	Type	<p>Engine shall be a Cummins ISX 15 400 diesel. It shall have a 400 hp or more with sufficient capacity to meet or exceed all performance requirements in this document. Engine options will be reviewed and approved by Winnipeg Transit. Bidder may submit optional engine configurations for Winnipeg Transit to consider but the base bid will be evaluated assuming a Cummins ISX 15 engine configuration that meets the performance requirements. The engine shall be compliant with current model year emissions. Documentation of emissions compliance shall be included with the bid. The engine shall be compliant with current model year emissions. The features of the engine ECM shall be programmed with -No load high idle 1700 RPM. Engine protection shut down shall be activated. The engine shall be equipped with a compression brake. Controls for the compression brake shall include two (2) dashboard mounted switches within easy reach of the driver. One switch shall be on/off. The second switch shall be a three-position switch controlling the amount of compression braking. When on, the compression brake shall activate with the brake application.</p>	_____
5.2	Horsepower	400 hp gross	_____
5.3	Torque	1400 lb-ft	_____
5.4	Engine shut down	Low oil pressure / high water temperature	_____
5.5	Anti-idling programming	Determined upon pre-production meet	_____
5.6	Air intake warmer	Required	_____
5.7	Fuel Shut-off	Electric solenoid type	_____
5.8	Air intake	Suitable Tow/Wrecker application	_____
5.9	Air cleaner	Dry type, suitable for Tow/Wrecker application	_____
5.10	Air intake restriction ind.	Dash mounted air restriction indicator	_____
5.11	Oil drain plug	Magnetic type	_____
5.12	Oil filter	Full flow, spin-on type	_____
5.13	Fuel filter	Spin-on type	_____
5.14	Fuel/water separator	Heated, drainable, mounted under hood, located to be protected from road spray. State location-	_____
5.15	Block heater	Immersion type, 110V/1000 Watt with covered recessed male plug, located under driver's side door The electrical cord shall be mounted through grille	_____
5.16	Oil Pan heater	120V/300 watt	_____
5.17	Coolant	Heavy-Duty extended life antifreeze to -35°F (-37°C)	_____
5.18	Coolant hoses	Premium or Gates Blue Stripe	_____
5.19	Fan Drive	Thermostatically controlled, automatic type	_____

5.20 Air compressor Water cooled, pressure lubricated 25 to 35 **cfm**
ie; Holset 3048680x / BendexTu-flo1400L

6.0 COOLIING SYSTEM-

6.1 Cooling- Shall include manufacturer's recommended radiator and transmission cooler. The system shall be designed to meet the cooling requirements of the engine and transmission while operating with the anticipated load in the City of Winnipeg environment. The cooling fan shall be an automatic clutch type with a dash mounted over-ride switch. A "fan engaged" warning light shall be included with the driver's warning light cluster. The switch shall be within easy reach of the driver. The radiator shall have copper core fin construction.

The delivered unit shall be furnished with antifreeze protection to - 35c. The coolant shall include additives as recommended by the engine and transmission manufactures.

The cooling system shall be equipped with a coolant filter able to remove particles contamination. The filter shall be a spin on type and have no chemical pre charge. The filter coolant lines shall have ¼ turn ball type shut off valves on both sides of the filter- The type and size of the filter shall be in accordance with the engine manufacturer's specifications.

Silicone hoses and constant torque hose clamps shall be used for all coolant hoses.

7.0 FILTERS-

7.1 Filter details- The fuel and engine oil filters shall be a spin-on design. The engine oil, coolant, transmission, and fuel filters shall be easily accessible for service. All filter locations shall be reviewed and approved by City of Winnipeg Transit Department.

8.0 BRAKES-

8.1 Brake Type-

Brakes shall be Meritor/Wabco air operated S-cam design and shall be of sufficient capacity to meet or exceed all performance requirements of this document. The braking system shall be equipped with a Wabco ABS system. Haldex or approved equivalent automatic slack adjusters shall be installed on the vehicle.

The brake block material shall be made of a non-asbestos compound. The brakes shall be "extended life" design. The anticipated load will be busses Up to 60 feet long with weights of 50,000 pounds. In some cases the towed busses will not have braking. The braking capacity shall meet or exceed all local, provincial and federal regulations governing this type of vehicle for anticipated load.

A trailer brake control shall be mounted on the right side of the steering column. The trailer brake control shall be self-returning. Column-mounted controls shall be mounted in a manner that does not obscure instrument observation.

Emergency brakes shall be a MGM spring brake design. _____

9.0 ELECTRICAL SYSTEM-

9.1 Electrical connector's

Plug-in, sealed type _____

9.2 Alternator

Brushless type, 165 , **State make & model-** _____

9.3 Starter

Starter with OCP and thermal protection _____

9.4 Circuit breakers

Auto-reset, readily accessible _____

9.5 Batteries

Three (3), total 2100 CCA combined

Battery and box shall be mounted on top of the frame behind the cab, with three(3) feet of extra cable. so it can be relocated by the wrecker manufacture. Batteries size a D8 preferred. Batteries will be equipped shut off switch mounted to the battery box _____

9.6 Cab marker lights

Cab marker lights shall be LED. _____

9.7 Wiring-

Wiring will run all the way to the rear of the frame. _____

10.0 EXHAUST SYSTEM-

10.1 Configuration- The truck shall be equipped with two (2) polished stainless steel vertical stacks installed to accommodate installation of a flush mounted wrecker body behind the cab with elbows verses flapper caps. The top of the elbows shall be 5 1/2 inches above the emergency light bar. Heat shields shall be polished stainless steel. Further, the pipe(s) shall not be mounted along the side of the frame "aft" of the vehicle cab. The noise level in the cab and the wrecker-working environment shall not exceed 85 db. The Diesel particulate filter regeneration control switches shall be a dashboard mounted, guarded switches within easy reach of the driver.

11.0 TRANSMISSION-

11.1 Model The transmission shall be an Allison World 4500 RDS or approved equivalent. The transmission shall be automatic and shall, when coupled to the engine selected, meet or exceed all performance requirements of this document. The transmission shall be arranged to accept a side mounted "PTO" pump. The transmission shall be equipped with six (6) speeds.

11.2 Shift selector Digital push-button type, dash mounted

11.3 Cooling capacity Water to oil transmission cooler, as per manufacturer's recommendation for severe-duty cycle and wrecker body application.

11.4 Oil level dipstick Bayonet type with high and low level markings

11.5 Trans. drain plug Magnetic type

11.6 ECU- The transmission ECU shall be programmed to properly interface with the engine. The programming shall be such that:

- The downshift schedule is not altered during engine compression brake
 - It shall be programmed for proper operation of the PTO.
 - The transmission shall automatically shift to neutral when park brake applied.
 - It shall not be possible to shift the transmission into gear while operating the wrecker
 - The electronic oil level sensor function shall be activated.
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12.0 FRONT AXLE-

12.1 Type-

The front axle shall be a 20,000 lb capacity Meritor or approved equivalent with a "set-back" configuration. The front axle shall be sized to support the finished vehicle with a counterweight push bumper as described in this document. The axle shall meet or exceed the performance requirements set forth in this document. The turning radius curb to curb shall not exceed 47 feet. The axle set back shall not exceed 48.5 inches. The front axle shall be equipped with oil bath wheel bearings, visible oil hub caps and fill plug.

13.0 REAR AXLE-

13.1 Type

The rear axles shall be Meritor MT-40-14X or approved equivalent tandem drive with a 40,000 lb capacity. The capacity of the tandem rear axles shall meet or exceed the performance requirements of this document. The rear axles shall be equipped with aluminum hubs. The preferred rear axle ratio shall be 525. Optional ratios may be proposed for approval by City of Winnipeg, but in any case, the truck shall meet or exceed the performance requirements of this document. The rear axle shall be equipped with an air powered inter-axle differential lockup with a guarded, dash-mounted control switch. The control shall be within easy reach of the driver. An "Inter-axle engaged" warning light shall be included with the driver's warning light cluster. The rear drive axle only shall be equipped with an inter-wheel lockup including a guarded, dash-mounted control switch. The control shall be within easy reach of the driver. A "rear axle locked" warning light shall be included with the driver's warning light cluster. The single speed rear axle gear ratio shall be such that the completed unit will meet or exceed the performance specifications of this document.

14.0 DRIVELINE-

14.1 Type-

The drivelines shall be Dana-Spicer SPL XL series. The main driveline shall be an HD-250XL. The inter-axle driveline shall be an HD-I7OXL.

15.0 HUBS & SEALS-

15.1 Type

Oil lubricated front and rear

15.2 Axle Fluids

Synthetic Fluids

15.3 Hubs

Must be aluminum Hubs Front & Rear

16.0 FRONT SUSPENSION-

16.1 Type Multi-leaf spring suspension, 20,000 lbs. capacity. The front suspension shall be a 59-inch taper leaf spring design sufficient to meet the performance requirements set forth in this document. The front suspension capacity shall be 20,000 lbs.

17.0 REAR SUSPENSION-

17.1 Type Air suspension with shock absorbers. The minimum rear suspension capacity shall be 46,000 lbs.

18.0 STEERING

18.1 Dual gear, rated 20,000 lbs min with remote cooler and four quart reservoir. Steering shall have equal turning radius left and right. The steering limits shall be set to provide the maximum available turning radius. suitable for wrecker body application.

19.0 RIMS, WHEELS-

19.1 Front 22.5 x 12.25 aluminum, hub piloted

19.2 Rear 22.5 x 8.25 aluminum, hub piloted

19.3 Wheel nut indicators Required on all wheel nuts

20.0 TIRES, FRONT

20.1 Make & Model Michelin XZY-3, **state make & model of tires, suited for wrecker body application.**

20.2 Size 385/65R 22.5, 20-ply (rated for request GVWR)

21.0 TIRES, REAR-

21.1 Make & Model Michelin XDY 3 LRH On Road/Off Road, **state make & model of tires, suited for wrecker body application.**

21.2 Size Rated for requested GVWR)

21.3 Preference- Preference will be given to Michelin tires

21.4 Spare tire- Spare tire will be provided

21.5 Lug nuts- Lug nuts with a polished stainless steel covers on each lug nut

21.6 Weight- The weight specification for the tire and wheels supplied shall meet or exceed anticipated loads.

22.0 FRAME-

22.1 Type The frame shall be sized to accept installation of a 40-ton hydraulic recovery boom with an under-lift, and body as required to meet the performance requirements of this document. All frame cross members shall be secured with "huck" bolts. The frame shall meet the specifications set forth by the recovery boom, under-lift and tow body manufacturers. These specifications shall include but not be limited to: the wheelbase, the frame size, the Gross Vehicle Weight (GVW), and the 3,000,000 RBM. After frame from center of rear axle 54" inches.

23.0 STEERING-

23.1 Type Heavy-duty power suitable for requested GVWR rating and wrecker body application. TRW TAS-85 dual gear, rated 20,000 lbs min with remote cooler and four quart reservoir. Steering shall have equal turning radius left and right. The steering limits shall be set to provide the maximum available turning radius.

24.0 FUEL TANK-

24.1 Type- Truck shall be equipped with a 75-gallon capacity diesel fuel tank. The tank shall be mounted forward under the door for improved weight distribution. A single fuel level indicator gauge shall be included with the dashboard instruments. The lower step shall be constructed of a self cleaning aluminum material matching the upper step and have a tread depth of 6 1/4 in.

25.0 AIR SYSTEM

25.1 Plumbing A shop air line coupler shall be installed at the right corner of the front bumper and at the rear of the tow body. The connector shall be installed in a manner that is easily accessible without opening the hood. In addition, the connector shall not obstruct the opening of the hood. The connector locations and installations shall be reviewed and approved by City of Winnipeg Transit Department. A 1/2" line shall supply the front and rear shop air connections. In both cases the lines shall be supplied from the accessory air tank. Each of the lines shall be equipped with a "ball type" shut off valve at the ends. And shall be equipped with 3/8 "Quick to Connect" fitting.

25.2 Hand Brake An air service line from the Hand Brake shall be Installed run to the rear of the Tow body by the shop air line supply and shall be equipped with a "ball type" shut off valve at the it's end at the tow body and shall be equipped with 3/8 "Quick to Connect" fitting.

26.0 CAB-

26.1	Type	Galvanized steel or aluminum	_____
26.2	Construction	Aluminum or Galvanized steel construction meant for severe-duty wrecker body application.	_____
26.3	Front axle to BOC	State-	_____
26.4	Hood	Must have Rubber fender lips minimum 2"- 3" width	_____
26.5	Cab mounts	Air suspension	_____
26.6	Front grille	Stationary type.	_____
26.7	Cab interior / trim	Extreme climate insulation including cloth or vinyl headliner on roof, door panels and rear interior of cab	_____
26.8	Cab silencer package	Required for minimal decibel levels	_____
26.9	Hood/Firewall/Engine	Insulated hood liner, engine cover and firewall	_____
26.10	Floor covering	Rubber mat with under-padding	_____
26.11	Floor mats	Two (2), rubber mats	_____
26.12	Driver's seat	High back, air suspension w/foldable armrests, lumbar support, heavy-duty cloth upholstery. State material-	_____
26.13	Passenger seat	High back, air suspension w/foldable armrests, lumbar support, heavy-duty cloth upholstery. State material-	_____
26.14	Sun visors	Dual flip-up type	_____
26.15	Steering wheel	Tilt and telescopic type	_____
26.16	12-Volt power outlet	(2) two required with independent circuit	_____
26.17	Radio	Factory installed AM/FM/CD with Blue Tooth	_____
26.18	Starter switch	Key operated c/w five (5) sets of keys	_____
26.19	Interior light	Dome light with driver and passenger door switches	_____
26.20	Heater / Defroster	High output, capable of keeping all windows clear at an outside temperature of -35°F (-37°C)	_____
26.21	Air conditioning	Required	_____
26.22	Horns	Dual Air Horns with single electric horn.	_____
26.23	Exterior mirrors	Dual polycarbonate unpainted aerodynamic or stainless steel mirrors with convex mirrors, heated, 4-way motorized adjustments (including heated convex mirrors), suitable for 102 in. equipment width	_____
26.24	Down-view mirror	Required over passenger door, 5" x 4" approx.	_____
26.25	Windows & windshield	Tinted	_____
26.26	Power windows	Required for driver and passenger side.	_____

26.27	Fresnel Windows	Driver & Passenger door, state-	_____
26.28	Windshield wipers	Electric, intermittent	_____
26.29	Wiper blades	Required	_____
26.30	Windshield washers	Electric, required with spray nozzles on wiper blades	_____
26.31	Grab handles	Driver & passenger side Anti-slip exterior	_____
26.32	Entrance steps	Dual each side, open grate / grip type	_____

27.0 INSTRUMENTATION-

27.1	Oil pressure	Gauge	_____
27.2	Coolant temperature	Gauge	_____
27.3	Transmission oil temp.	Gauge	_____
27.4	LOP/HWT	Warning light and buzzer	_____
27.5	Voltmeter	Gauge	_____
27.6	Air reservoir pressure	Gauge with LAP warning light and buzzer	_____
27.7	Engine hour-meter	Required, non-reset able type	_____

28.0 TOW HOOKS-

28.1	Location	Front mounted	_____
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29.0 FRONT BUMPER-

29.1 The front counterweight push bumper shall be designed to follow the contours of the front of the truck and keep the turning radius to a minimum. Its over all length will be 96" inches. It will be angled on ends to follow the contour of the truck. The pushing surface shall be 18" inches wide, (measured from top to bottom) with 13" inch road clearance. The bumper shall be mounted and braced to provide the ability to push a fully loaded bus (50,000 lbs) at 45 deg. off axis without permanent deformation. The surface of the bumper must protrude a minimum of 11" inches and a maximum of 13" inches from the front of the truck. The weight of the bumper will be designed to meet the recommendation of the Wrecker manufacture or be designed in away that add weight can be added later must be approved by Winnipeg transit for there needs. The surface of the bumper will be covered with a material ¾ inch black UHMW Polyethylene.

30.0 LIGHTING

30.1 Headlight shall be a Halogen either two (2) or Four (4) lamp system. All other lamps and auxiliary lamp shall be LED unless not available then incandescent light will be acceptable.

31.0 COLOUR-

- 31.1 Exterior White _____
- 31.2 Interior Blue or grey, **state-** _____
- 31.3 Frame & suspension Primed and finished with black Imron 5000 paint _____

32.0 ACCESSORIES-

- 32.1 Flare kit Three (3) triangular reflectors, CVSA approved _____
- 32.2 Fire Extinguisher (20) lbs. Fire Extinguisher CVSA approved
Mounted as per manufactures recommendation.
State location- _____
- 32.3 First Aid Kit Required in Cab and secured _____

33.0 CHASSIS WARRANTY-

- 33.1 Basic vehicle Two (2) years, 240,000 km _____
- 33.2 Batteries One (1) year, unlimited km _____
- 33.3 Drive train Two (2) years, unlimited km _____
- 33.4 Cab structure/corrosion Three (3) years, unlimited km _____
- 33.5 Frame & cross members Five (5) years, unlimited km _____
- 33.6 Cab paint One (1) year or 100 000 km _____
- 33.7 Engine Six (6) years or 400,000 km _____
- 33.8 Transmission Five (5) year, unlimited km _____
- 33.9 Axles, front & rear Three (3) years or 240 000 km _____
- 33.10 Biodiesel fuel The above warranties shall be applicable with a
B5 biodiesel fuel or less _____

34.0 PERFORMANCE RELIABILITY-

- 34.1 The responsibility for the design of the **60,000 lbs. Tandem Truck Chassis**, its performance and reliability shall rest upon the Contractor. _____
- 34.2 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. _____

34.3 Where the **60,000 lbs Tandem Truck Chassis** develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance. _____

35.0 TRAINING-

35.1 The Contractor shall be required to provide training (at the Contractor's expense) for the City of Winnipeg maintenance and operating personnel. The training shall be divided into two separate sessions, one for maintenance personnel and one for operating personnel. The training shall be conducted in separate or combined sessions for each group of personnel.

The duration of the sessions shall be as long as required for adequate familiarization and orientation of the equipment to the satisfaction of the Contract Administrator.

The training shall be conducted within two (2) calendar weeks from the date of delivery and shall be coordinated through the Contract Administrator.

The training shall be conducted in Winnipeg at a time and location designated by the Contract Administrator.

Pricing should be based on two (2) business days for maintenance personnel and two (2) business days for operating personnel.

Note: The first payment of the contract on the equipment will not be issued until successful completion of training has been conducted to the satisfaction of the Contract Administrator. _____

35.2 Training Aides: _____

a) On the type of equipment being offered, state if CD Rom training aides or on-line training are available- _____

35.3 What is the recommended minimum training duration for:

Primary unit:

For major attachments (if applicable): _____

35.4 State what other training aids are available (videos, CDs).

For the primary unit:

For major attachments (if applicable): _____

- 35.5 Training Materials and applicable manuals or on-line training material information must be provided to the Operator Training Branch of Public Works at the earliest possible opportunity, no later than (4) weeks prior to delivery, when supplying vehicles, equipment and related attachments. Send these materials, preferably in both electronic format and hard copy (training videos are to be supplied on either CD or DVD) to:

**Public Works department
Human Resources Division
Operator Training Branch
102-1155 Pacific Ave.
Winnipeg Manitoba
R3E 3P1**

[E-mail: pwd-opertrain@winnipeg.ca](mailto:pwd-opertrain@winnipeg.ca)

Attn: Equipment Training Coordinator - Pending Equipment Delivery

36.0 TECHNICAL SERVICE & PARTS MANUALS-

- 36.1 One set of technical service and parts manuals are required, CD preferred _____

37.0 DELIVERY-

- 37.1 **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:

**Miller Industries Towing Equipment Inc
8503 Hilltop Dr
Ooltewah, Tn 37363**

**Paul Mahnken
Western Canada & NW US
District Sales Manager
Miller Industries Towing Equip** _____

- 37.2 **Delivery Time-** Complete equipment shall arrive no later than 16 weeks from the date of official notification of award of contract. Equipment shall be delivered between 8:00 am and 3:00 pm on Business Days. _____

- 37.3 **Delivery Contact-** The Contractor shall contact the Contract Administrator prior to delivery of the equipment. _____

- 37.4 **P.D.I-** A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list _____