

**FORM A: BID**  
(See B7)

1. Contract Title SUPPLY & DELIVERY OF TANDEM TRUCK CHASSIS

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 TANDEM TRUCK CHASSIS**

**UNIT PRICES**

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE
1.	60,000 lbs. Tandem Truck Chassis	1071	(each)	(2)	\$ _____

\_\_\_\_\_  
Name of Bidder

## FORM N: DETAILED SPECIFICATIONS 1071

### 1.0 **DESCRIPTION OF EQUIPMENT AND PERFORMANCE-**

- 1.1 These specifications describe the **Supply and Delivery of Tandem Truck Chassis** 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 concrete mixer application
- 1.4 The Tandem Truck Chassis 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 Tandem Truck Chassis, 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 **Tandem Truck Chassis** 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.

**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	_____
3.4	Weight-	State front and rear axle weight with full of fuel, 200 lbs operator and full fluids	_____

**4.0 DIMENSIONS-**

4.1	Cab to Axle	As required for a London 65 Series Concrete Mixer body. <b>State CA-</b>	_____
4.2	Wheelbase	As required for a London 65 Series Concrete Mixer body. <b>State WB-</b>	_____
4.3	Turning radius	State turning radius-	_____

**5.0 ENGINE-**

5.1	Type	Diesel, inline 6-cylinder. <b>State make &amp; model-</b>	_____
5.2	Horsepower	330 hp gross	_____
5.3	Torque	1150 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 for Concrete Mixer Application	_____
5.9	Air cleaner	Dry type, suitable for Concrete Mixer 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. <b>State location-</b>	_____
5.15	Block heater	Immersion type, 110V/1000 Watt minimum with covered recessed male plug, located under driver's side door	_____

5.16	Oil Pan heater	120V/300 watt minimum	_____
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, minimum 16.0 cfm, <b>state cfm-</b>	_____
5.21	PTO Provision	Front PTO under radiator with adapter plate	_____
5.22	Exhaust Brake	Engine exhaust brake required.	_____

**6.0 ELECTRICAL SYSTEM-**

6.1	Electrical connector's	Plug-in, sealed type	_____
6.2	Alternator	Brushless type, 165 amp minimums. <b>State make &amp; model-</b>	_____
6.3	Starter	Starter with OCP and thermal protection	_____
6.4	Circuit breakers	Auto-reset, readily accessible	_____
6.5	Batteries	Three (3), total 2100 CCA combined	_____
6.6	Battery Box	Aluminum, mounted under cab or steps c/w enclosure. <b>State location-</b>	_____
6.7	Battery disconnects	Located in cab accessible to operator	_____
6.8	Battery boost terminal	Remote battery boost terminal(s), protected from road spray, covered. <b>State location-</b>	_____
6.9	Cab marker lights	Cab marker lights shall be LED.	_____
6.10	Accessory switches	Five (5) required, dash mtd., for "Beacon", "Rear Work Lights" and additional switches labelled "Aux". All switches complete and wired for body installation, labeled and backlit.	_____

**7.0 EXHAUST SYSTEM-**

7.1	Configuration	Stationary extreme outboard single right hand, chrome vertical discharge on passenger side, under frame routing, vertical portion cab mounted. discharge tip shall be chrome curved. Exhaust shall not impede with body installation.	_____
7.2	Overall exhaust height	As recommended for Concrete Mixer Body. Exact height to be determined upon pre-production meet	_____
7.3	Heat shield	Required over exhaust next to cab door	_____

**8.0 TRANSMISSION-**

8.1	Model	Allison automatic with 6-speed programming and synthetic transmission fluid. <b>State make &amp; model of transmission-</b>	_____
8.2	Shift selector	Digital push-button type, dash mounted	_____
8.3	Cooling capacity	Water to oil transmission cooler, as per manufacturer's recommendation for severe-duty cycle and concrete mixer application.	_____
8.4	Oil level dipstick	Bayonet type with high and low level markings	_____
8.5	Trans. drain plug	Magnetic type	_____

**9.0 FRONT AXLE-**

9.1	Type	20,000 lbs. capacity	_____
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**10.0 REAR AXLE-**

10.1	Type	40,000 lbs. capacity	_____
10.2	Ratio	Recommended for City use and a maximum highway speed of 110 kph.	_____
10.3	Inter-axle lock	Required w/dash mounted switch	_____
10.4	Differential lock	Required for both drive axles w/dash mtd. switch	_____
10.5	Axle Spacing	As recommended for concrete mixer application, <b>state spacing measurement-</b>	_____

**11.0 HUBS & SEALS-**

11.1	Type	Oil lubricated front and rear	_____
11.2	Axle Fluids	Synthetic Fluids	_____
11.3	Hubs	Must be aluminum Hubs Front & Rear	_____

**12.0 FRONT SUSPENSION-**

12.1	Type	Multi-leaf spring suspension, 20,000 lbs. capacity	_____
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**13.0 REAR SUSPENSION-**

13.1	Type	40,000 Rubber block type suspension suitable for cement mixer application. <b>State make and model-</b>	_____
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**14.0 RIMS, WHEELS-**

14.1	Front	22.5 x 12.25 aluminum, hub piloted	_____
14.2	Rear	22.5 x 8.25 aluminum, hub piloted	_____

14.3 Wheel nut indicators Required on all wheel nuts \_\_\_\_\_

**15.0 TIRES, FRONT**

15.1 Make & Model Michelin XZY-3, **state make & model of tires, suited for concrete mixer application.** \_\_\_\_\_

15.2 Size 425/65R 22.5, 20-ply (rated for request GVWR) \_\_\_\_\_

**16.0 TIRES, REAR-**

16.1 Make & Model Michelin XDY 3 LRH On Road/Off Road, **state make & model of tires, suited for concrete mixer application.**

16.2 Size 11R 22.5, 16-ply minimum (rated for request GVWR) \_\_\_\_\_

**17.0 FRAME-**

17.1 Type RBM suitable for requested GVWR, outside frame to be clear for body installation. \_\_\_\_\_

17.2 Application Suitable for cement mixer application body installation \_\_\_\_\_

17.3 Chassis fasteners Huck bolted frame fasteners \_\_\_\_\_

17.4 Front frame extension Integral type, 18 in. minimum. Only required for front PTO provisions. **State length-** \_\_\_\_\_

17.5 After-frame As required for requested Concrete Mixer body Installation. \_\_\_\_\_

17.6 Rear Tow Hooks Required \_\_\_\_\_

**18.0 STEERING-**

18.1 Type Heavy-duty power suitable for requested GVWR rating and Concrete Mixer application. \_\_\_\_\_

**19.0 BRAKES-**

19.1 Type Air, ABS, S-cam drum brakes, front & rear \_\_\_\_\_

19.2 Slack adjusters (clearance sensing), automatic type \_\_\_\_\_

19.3 Indicators Visual Brake Stroke Indicators' **'Tattle-Tale'** style required on all brakes. **State make & Model-** \_\_\_\_\_

19.4 Parking brake Spring set, four (4) chamber system \_\_\_\_\_

19.5 Brake pots Vented type \_\_\_\_\_

19.6 Dust shields Required, front and rear \_\_\_\_\_

19.7 Drain valves Automatic drain valves required on each air tank with pull cables. \_\_\_\_\_

19.8 Air Tanks All tanks must be aluminum \_\_\_\_\_

19.9	Air dryer	Bendix AD-IS air dryer. <b>State location-</b>	_____
<b>20.0</b>	<b><u>FUEL TANK-</u></b>		
20.1	Type	Aluminum 70-gallon capacity, mounted as per cement mixer body requirements. Must be fully fuelled upon delivery.	_____
20.2	Tank straps	Aluminum or stainless steel straps with minimum 1/16 in. rubber or neoprene isolators to prevent galvanic corrosion.	_____
20.3	Fuel	Fully Fuelled upon delivery	_____
<b>21.0</b>	<b><u>CAB-</u></b>		
21.1	Type	Galvanized steel or aluminum	_____
21.2	Construction	Aluminum or Galvanized steel construction meant for severe-duty concrete mixer application.	_____
21.3	Front axle to BOC	<b>State-</b>	_____
21.4	Hood	Must have Rubber fender lips minimum 2"- 3" width	_____
21.5	Cab mounts	Air suspension	_____
21.6	Front grille	Stationary type.	_____
21.7	Cab interior / trim	Extreme climate insulation including cloth or vinyl headliner on roof, door panels and rear interior of cab	_____
21.8	Cab silencer package	Required for minimal decibel levels	_____
21.9	Hood/Firewall/Engine	Insulated hood liner, engine cover and firewall	_____
21.10	Floor covering	Rubber mat with under-padding	_____
21.11	Floor mats	Two (2), rubber mats	_____
21.12	Driver's seat	High back, air suspension w/foldable armrests, lumbar support, heavy-duty cloth upholstery. State material-	_____
21.13	Passenger seat	High back, air suspension w/foldable armrests, lumbar support, heavy-duty cloth upholstery. State material-	_____
21.14	Sun visors	Dual flip-up type	_____
21.15	Steering wheel	Tilt and telescopic type	_____
21.16	12-Volt power outlet	(2) two required with independent circuit	_____
21.17	Radio	Factory installed AM/FM/CD with Weather Band	_____
21.18	Starter switch	Key operated c/w three (3) sets of keys	_____
21.19	Interior light	Dome light with driver and passenger door switches	_____
21.20	Heater / Defroster	High output, capable of keeping all windows clear at an outside temperature of -35°F (-37°C)	_____
21.21	Air conditioning	Required	_____
21.22	Horns	Dual Air Horns with single electric horn.	_____

21.23	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	_____
21.24	Down-view mirror	Required over passenger door, 5" x 4" approx.	_____
21.25	Windows & windshield	Tinted	_____
21.26	Power windows	Required for driver and passenger side.	_____
21.27	Windshield wipers	Electric, intermittent	_____
21.28	Wiper blades	Required	_____
21.29	Windshield washers	Electric, required with spray nozzles on wiper blades	_____
21.30	Grab handles	Driver & passenger side Anti-slip exterior	_____
21.31	Entrance steps	Dual each side, open grate / grip type	_____
21.32	Licence Plate	Must have front and rear licence plate brackets	_____

**22.0 INSTRUMENTATION-**

22.1	Oil pressure	Gauge	_____
22.2	Coolant temperature	Gauge	_____
22.3	Transmission oil temp.	Gauge	_____
22.4	LOP/HWT	Warning light and buzzer	_____
22.5	Voltmeter	Gauge	_____
22.6	Air reservoir pressure	Gauge with LAP warning light and buzzer	_____
22.7	Engine hour-meter	Required, non-reset able type	_____

**23.0 TOW HOOKS-**

23.1	Location	Front mounted	_____
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**24.0 FRONT BUMPER-**

24.1	Type	Full width steel front bumper	_____
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**25.0 COLOUR-**

25.1	Exterior	White	_____
25.2	Interior	Blue or grey, <b>state-</b>	_____
25.3	Frame & suspension	Primed and finished with black Imron 5000 paint	_____
25.4	Wheels	Aluminum	_____

**26.0 ACCESSORIES-**

26.1	Flare kit	Three (3) triangular reflectors, CVSA approved	_____
26.2	Fire Extinguisher	(5) lbs. Fire Extinguisher CVSA approved Mounted as per manufactures recommendation.	_____

**State location-**

26.3 First Aid Kit Required in Cab and secured

**27.0 CHASSIS WARRANTY-**

27.1 Basic vehicle Two (2) years, 240,000 km

27.2 Batteries One (1) year, unlimited km

27.3 Drive train Two (2) years, unlimited km

27.4 Cab structure/corrosion Three (3) years, unlimited km

27.5 Frame & cross members Five (5) years, unlimited km

27.6 Cab paint One (1) year or 100 000 km

27.7 Engine Six (6) years or 400,000 km

27.8 Transmission Five (5) year, unlimited km

27.9 Axles, front & rear Three (3) years or 240 000 km

27.10 Biodiesel fuel The above warranties shall be applicable with a B5 biodiesel fuel or less

**28.0 PERFORMANCE RELIABILITY-**

28.1 The responsibility for the design of the **Tandem Truck Chassis**, its performance and reliability shall rest upon the Contractor.

28.2 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.

28.3 Where the **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.

**29.0 TRAINING-**

29.1 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.

29.2 Training Aides:

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

29.3 What is the recommended minimum training duration for:

Primary unit:

For major attachments (if applicable):

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

For the primary unit:

For major attachments (if applicable):

29.5 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**

**30.0 TECHNICAL SERVICE & PARTS MANUALS-**

30.1 One set of technical service and parts manuals are required, CD preferred \_\_\_\_\_

**31.0 SERVICE FACILITY**

31.1 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.

**32.0 DELIVERY-**

32.1 **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. \_\_\_\_\_

32.1 **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. \_\_\_\_\_

32.3 **Delivery Contact-** The Contractor shall contact the Contract Administrator prior to delivery of the equipment. \_\_\_\_\_

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