

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

1. Contract Title SUPPLY & DELIVERY OF CONCRETE MIXER TRUCKS

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

In witness whereof 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 CONCRETE MIXER TRUCKS**

**UNIT PRICES**

| ITEM NO.  | DESCRIPTION             | SPEC. REF.    | UNIT | APPROX. QUANTITY | UNIT PRICE | AMOUNT   |
|---|-------------------------|---------------|------|------------------|------------|----------|
| 1.  | 60,000 lbs GVWR Chassis | <b>08001A</b> | Each | (6)              | \$ _____   | \$ _____ |
| 2.  | Mixer Drum              | <b>08001B</b> | Each | (6)              | \$ _____   | \$ _____ |
| TOTAL BID PRICE (GST and MRST extra) (in figures) \$ _____<br>(in words) _____<br>_____ |                         |               |      |                  |            |          |

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

## FORM N: DETAILED SPECIFICATIONS 08001A

(60,000 lbs. Cab & Chassis)

### 1.0 TYPE/INTENT-

- 1.1 The **Truck Chassis shall be a 2008 model year**. The chassis shall be furnished complete and ready for use by the Contractor. All parts not specifically mentioned but which are required to complete and place the vehicle into successful operation shall be furnished as though specifically mentioned in these specifications.

It is the intent of these specifications to describe a Concrete Mixer Truck and other equipment as described herein. The Concrete Mixer Trucks and equipment shall be installed on a cab and chassis to be supplied by the Contractor (**see Detailed Specifications 08001A attached**).

- 1.2 It will be the responsibility of the Bidder to inform the City of any errors or omissions in these specifications, for under this Contract the Contractor shall be held responsible for the satisfactory operational function of the vehicle.
- 1.3 All items in these specifications must be answered indicating compliance or non-compliance. **Bidders shall state "yes" for compliance or state deviation**, or give a reply where requested to do so. Deviations shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.
- 1.4 Each bidder is required to fill in every blank. **Failure to do so may be used as a basis for rejection of bid.**
- 1.5 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 1.6 The completed unit and all its components shall comply with all C.M.V.S.S. Canadian Motor Vehicle Safety Standards, M.H.T.A. Manitoba Highway Traffic Act, S.S.A Safety Standards Act, F.M.V.S.S Federal Motor Vehicle Safety Standards, D.O.T Department of Transportation, regulations and requirements as applicable, including but not limited to, a Manitoba Government Inspection with Safety Sticker on the driver's side window.

### 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 minimum | _____ |
| 3.3 | Rear GVWR  | 40,000 lbs. GVWR minimum | _____ |

### 4.0 DIMENSIONS-

- 4.1 Cab to Axle As required for a London 65 Series Concrete Mixer body. **State CA-** \_\_\_\_\_

4.2 Wheelbase As required for a London 65 Series Concrete Mixer body. **State WB-** \_\_\_\_\_

4.3 Turning radius State turning radius- \_\_\_\_\_

**5.0 ENGINE-**

5.1 Type Diesel, inline 6-cylinder. **State make & model-** \_\_\_\_\_

5.2 Horsepower 330 HP gross minimum \_\_\_\_\_

5.3 Torque 1000 lb-ft minimum \_\_\_\_\_

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. **State location-** \_\_\_\_\_

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 18.7 cfm, **state cfm-** \_\_\_\_\_

5.21 PTO Provision Engine PTO, **state PTO opening location-**  
 - Front PTO through radiator with adapter plate  
 - Front PTO under radiator with adapter plate  
 - Rear Mount PTO (REPTO) \_\_\_\_\_

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), minimum total 2100 CCA combined  | _____ |
| 6.6                               | Battery Box            | Aluminium, 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.  | _____ |
| <b>7.0 <u>EXHAUST SYSTEM-</u></b> |                        |   |       |
| 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  | _____ |
| <b>8.0 <u>TRANSMISSION-</u></b>   |                        |   |       |
| 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 minimum \_\_\_\_\_

**10.0 REAR AXLE-**

10.1 Type 40,000 lbs. capacity minimum \_\_\_\_\_

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, **state spacing measurement-** \_\_\_\_\_

**11.0 HUBS & SEALS-**

11.1 Type Oil lubricated front and rear \_\_\_\_\_

11.2 Axle Fluids Synthetic Fluids \_\_\_\_\_

11.3 Hubs Must be aluminium Hubs Front & Rear \_\_\_\_\_

**12.0 FRONT SUSPENSION-**

12.1 Type Multi-leaf spring suspension, 20,000 lbs. capacity minimum \_\_\_\_\_

**13.0 REAR SUSPENSION-**

13.1 Type 40,000 Rubber block type suspension suitable for cement mixer application. **State make and model-** \_\_\_\_\_

**14.0 RIMS, WHEELS-**

14.1 Front 22.5 x 12.25 aluminium, hub piloted \_\_\_\_\_

14.2 Rear 22.5 x 8.25 aluminium, 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 445/65R 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. **State location-** \_\_\_\_\_

**20.0 FUEL TANK-**

20.1 Type Aluminium 70-gallon minimum capacity, mounted as per cement mixer body requirements. Must be fully fuelled upon delivery. \_\_\_\_\_

20.2 Tank straps Aluminium 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         | Aluminium 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       | Fresnel Windows      | Driver & Passenger door, <b>state-</b>   | _____ |

|       |                    |   |       |
|-------|--------------------|---|-------|
| 21.28 | Windshield wipers  | Electric, intermittent                                | _____ |
| 21.29 | Wiper blades       | Required  | _____ |
| 21.30 | Windshield washers | Electric, required with spray nozzles on wiper blades | _____ |
| 21.31 | Grab handles       | Driver & passenger side Anti-slip exterior            | _____ |
| 21.32 | Entrance steps     | Dual each side, open grate / grip type                | _____ |
| 21.33 | 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 | _____ |
|------|----------|---------------|-------|

**24.0 FRONT BUMPER-**

|      |      |                                   |       |
|------|------|-----------------------------------|-------|
| 24.1 | Type | Full width aluminium front bumper | _____ |
|------|------|-----------------------------------|-------|

**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             | Aluminium                                       | _____ |

**26.0 ACCESSORIES-**

|      |                   |  |       |
|------|-------------------|--|-------|
| 26.1 | Flare kit         | Three (3) triangular reflectors, CVSA approved   | _____ |
| 26.2 | Fire Extinguisher | (20) lbs. Fire Extinguisher CVSA approved<br>Mounted as per manufactures recommendation.<br><b>State location-</b> | _____ |
| 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 | _____ |

## FORM N: DETAILED SPECIFICATIONS 08001B

(Mixer Drums)

### 1.0 TYPE-

- 1.1 The **Mixer Drum shall be 2008 model year**. The mixer drums shall be furnished complete and ready for use by the Contractor. All parts not specifically mentioned but which are required to complete and place the vehicle into successful operation shall be furnished as though specifically mentioned in these specifications.

It is the intent of these specifications to describe a Concrete Mixer Truck and other equipment as described herein. The Concrete Mixer Trucks and equipment shall be installed on a cab and chassis to be supplied by the Contractor.

- 1.2 It will be the responsibility of the Bidder to inform the City of any errors or omissions in these specifications, for under this Contract the Contractor shall be held responsible for the satisfactory operational function of the vehicle.
- 1.3 All items in these specifications must be answered indicating compliance or non-compliance. **Bidders shall state "yes" for compliance or state deviation**, or give a reply where requested to do so. Deviations shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.
- 1.4 Each bidder is required to fill in every blank. **Failure to do so may be used as a basis for rejection of bid.**
- 1.5 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 1.6 The completed unit and all its components shall comply with all C.M.V.S.S. Canadian Motor Vehicle Safety Standards, M.H.T.A. Manitoba Highway Traffic Act, S.S.A Safety Standards Act, F.M.V.S.S Federal Motor Vehicle Safety Standards, D.O.T Department of Transportation, regulations and requirements as applicable, including but not limited to, a Manitoba Government Inspection with Safety Sticker on the driver's side window.

### 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 MIXER - ELIGIBLE MODEL LONDON SERIES 65 OR EQUIVALENT IN ACCORDANCE WITH B.5 SUBSTITUTES STATED HEREIN.

- 3.1 MIXER- Mixer 6.5 m3

- 3.2 DRUM- ¼" spun drum head; 48" inside reinforcing plate; 3/16 Londox 220 wear resistant (high manganese, low carbon) Steel drum shell welded 100% inside and out; 3/16 Londox 220 blades with hard surface lips; solid wire welded seams;

solid steel drum track machined inside taper and out square;  
43" discharge opening; auxiliary surge fins; 16 X 22.5 " bolt  
on oval inspection hatch.

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3.3 **FRONT PEDESTAL-** Fully enclosed Cor Ten "A" front pedestal incorporating a 15 gallon easy clean hydraulic oil reservoir. Flared lower front and rear flanges to distribute load.

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3.4 **REAR PEDESTAL-** Easy to clean enclosed rear pedestal with service access to the drum rolls and standard "knee brace". Pedestals constructed of CorTen "A" corrosion resistant steel. Fully welded swivel support integrated through pedestal frame

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3.5 **TRANSMISSION-** Model ZF PK7500 right angle / planetary direct drive; 138.6:1 reduction; 53,104 ft lb output torque capacity. Mounted to machined drum flange by 24 grade 8 bolts and to machined pedestal deck pads by 6 grade 8 bolts.

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3.6 **HYDROSTATIC-** Eaton heavy duty 5.4 cubic inch variable displacement piston pump with built in 5500 psi relief valve; Eaton heavy duty 4.6 cubic inch displacement motor; speed and direction of the drum rotation controlled from the cab and on the rear pendant; 10 micron suction filter; heavy duty front mounted oil cooler with guard.

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3.7 **WATER SYSTEM-** 125 gallon, side mounted **aluminum** water tank; (3) three positions fill, dump and hold valve; high pressure relief valve; pressure regulating valve; off set sight gauge; 4" diameter spring loaded flapper valve; 1' rear water injection line; 25 foot wash down hose with pistol grip spray nozzle. Blow out and drain provision for winter operation.

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3.8 **DRUM ROLLERS-** CM1035 alloy steel drum roller; tapered roller bearings; double sealed; centre shaft lubrication; roller surfaced hardened to Rockwell C45. Full width rear drum roll guard.

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3.9 **CHARGE HOPPER-** 38" X 30" top opening; 19" minimum throat dimension.

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3.10 **REAR LADDER-** Non skid ladder rungs and platform base; fold down ladder extension; ladder rungs align for safety when folded . Double guard rail on extra large top platform.

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3.11 **CONTROLS-** Electro-hydraulic mix-discharge control in cab and at rear of mixer on 20' quick disconnect cable; electric. truck engine throttle at rear of mixer (switch for electric engines); chute raise and lower hydraulic control valve rear of mixer. Radio controls for all functions, chute lift, chute lock, engine throttle, mix/ discharge.

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3.12 **CHUTES-** Paving type main chute with safety hand grabs and hinged fold over with lock and a "flip chute assist" ; (3) three 48" **aluminum or steel with plastic liners extension chutes** for 20 feet total length; positive seven

position pin lock with 7/8" replaceable hole plate. \_\_\_\_\_

3.13 **CHUTE HOIST-** (2) ½" double acting hydraulic cylinder, 3000 psi rated;  
A-pad gear pump mounted on the Eaton hydrostatic pump;  
manual control valve located at the rear of mixer with  
integral relief and flow regulating valve. \_\_\_\_\_

3.14 **FENDERS-** 14 ga. heavy duty roll formed aluminum or plastic fenders  
with stainless steel hardware and rubber washers; full tandem  
length with powder coated CorTen "A" centre and end supports.  
Mud flaps front and rear. \_\_\_\_\_

3.15 **LIGHTS-** Trucklite brand clearance, marker and identification lamps  
with integral reflectors in accordance with FMVSS.  
Trucklite sealed junctions box and armour shielded wiring  
harness. Midship light is combination clearance /signal. \_\_\_\_\_

3.16 **SLUMP GAUGE-** Slump meter shall be high visibility with adjustable  
pointer. \_\_\_\_\_

3.17 **FRAME TARP-** Acid resistant frame tarp located under drum \_\_\_\_\_

3.18 **REAR LIGHTING-** Dual rear working lights, sealed beam floodlights \_\_\_\_\_

3.19 **CHUTE LOCK-** Air operated with infinite positioning with in cab and  
exterior controller. \_\_\_\_\_

3.20 **PAINTING-** Mixer and components shot blasted prior to prime painting.  
All components painted prior to assemble. Top coat one  
color Dupont Imron 2 part polyurethane. Tie down angles,  
fender mounting brackets and water tank cradles are  
powder coated black. Water tank straps to be black  
plastic dipped. \_\_\_\_\_

#### **4.0 TRAINING**

4.1 The Contractor shall provide operational and maintenance training  
by qualified staff for City of Winnipeg personnel. The training shall  
be conducted in separate sessions for each group of personnel.  
Each session shall be approximately ½ day in duration and shall  
provide adequate familiarization and orientation on the unit, to the  
satisfaction of the Contract Administrator. The training shall be  
conducted in Winnipeg at a location to be designated by the  
Contract Administrator. \_\_\_\_\_

4.2 State if other training aids (videos, CDs) are available. \_\_\_\_\_

4.3 **Please state-** the manufactures recommended training time for the  
complete equipment (Cab & Chassis and Body Equipment). \_\_\_\_\_

#### **5.0 WARRANTY-**

5.1 The warranty for the **body equipment** shall cover the complete equipment, and all parts thereof against any defects of workmanship, construction and materials, for a period of not less than **one (1) year unlimited hours on mixer body and associated equipment.** Any article that has become defective during said warranty period and has not proven to have been caused by negligence on the part of the user shall be repaired or replaced at no cost to the City. The warranty shall be effective from the date the equipment is put into service by the City of Winnipeg.

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6.0 **DELIVERY POINT-** Vehicles shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.I.V.S. to the WFMA 185 Tecumseh Street, Winnipeg MB.

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6.1 **DELIVERY TIME-** Within **sixteen (16) calendar weeks** from the date of official notification of award of contract. Equipment shall be delivered within 8:00 am and 3:00 pm on Business Days.

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6.2 **DELIVERY CONTACT-** The Contractor shall contact the Contract Administrator prior to delivery of the equipment.

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

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7.0 **GREASING SYSTEM-** Complete unit shall have a CPL automatic greasing System. Automatic greasing system – complete body and chassis shall be supplied with a Groeneveld/CPL Systems Inc. automatic greasing system including all required grease points on concrete mixer body, and automatic low level shut-off with in-cab red light indicator.

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7.1 **State**, quantity of greasing points on mixer body & Truck cab & chassis.

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