## FORM A: BID (See B7)

1.	Contract Title	SUPPLY & DELIVERY	OF CONCRETE MIXER TRU	CKS
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 ur	der the above name.	
3.	Contact Person	The Bidder hereby authors the Bidder for purposes	norizes the following contact p of the Bid.	person to represent
		Contact Person	Title	
		Telephone Number	Facsimile Number	E-mail Address
4.	Definitions		used in the Contract shall h General Conditions and D3.	ave the meanings
5.	Offer		ers to perform the Work in a ), in Canadian funds, set out	
6.	Commencement of the Work		no Work shall commence unifrom the Award Authority	

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	08001A	Each	(6)	\$	\$
2.	Mixer Drum	08001B	Each	(6)	\$	\$
TOTAL BID PRICE (GST and MRST extra) (in figures)\$						
(in words)						

.....

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.
- 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-

4.1	Cab to Axle	As required for a London 65 Series Concrete Mixer	
4.0	<b>DIMENSIONS-</b>		
0.0	TOOL OV VVIC	TO,000 IDS. OV VVIX HIMINIUM	
3.3	Rear GVWR	40,000 lbs. GVWR minimum	
3.2	Front GVWR	20,000 lbs. GVWR minimum	
3.1	Total GVWR	60,000 lbs. GVWR	

body. State CA-

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	Туре	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	g 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.State Location	
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 18.7 cfm, <b>state cfm</b> -	
5.21	PTO Provision	Engine PTO, state PTO opening location-	
		<ul> <li>Front PTO through radiator with adapter plate</li> <li>Front PTO under radiator with adapter plate</li> <li>Rear Mount PTO (REPTO)</li> </ul>	
5.22	Exhaust Brake	Engine exhaust brake required.	

## 6.0 ELECTRICAL SYSTEM-

6.2 Alternator 165 amp minimums. State make & model-  6.3 Starter Starter with OCP and thermal protection	
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. State location-	
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. State make & model of transmission-	
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 severeduty 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	

Make & Model

16.1

Template Version: F020070720

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	Туре	Oil lubricated front and rear	
11.2	Axle Fluids	Synthetic Fluids	
11.3	Hubs	Must be aluminium Hubs Front & Rear	
12.0	FRONT SUSPENSION	<del>-</del>	
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	
4 = -			
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-		

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	Туре	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. <b>State length-</b>	
17.5	After-frame	As required for requested Concrete Mixer body Installation.	
17.6	Rear Tow Hooks	Required	
18.0	STEERING-		
18.1	Туре	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' <b>'Tattle-Tale''</b> style required on all brakes. <b>State make &amp; Model-</b>	
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>	
20.0	FUEL TANK-		
20.1	Туре	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
21.0	CAB-	
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	State-
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, Stainless or chrome steel mirrors with convex mirrors, heated, 4-way motorized adjustments (including heater convex mirrors), suitable for 102 in. equipment width, state:
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	-
21.00	Williashicia Washicis	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-		
<b>24.0</b> 24.1	FRONT BUMPER-	Full width aluminium front bumper	
24.1	Туре	Full width aluminium front bumper	
24.1 <b>25.0</b>	Type  COLOUR-		
24.1 <b>25.0</b> 25.1	Type  COLOUR- Exterior	White	
24.1 25.0 25.1 25.2	Type  COLOUR- Exterior Interior	White Blue or grey, <b>state-</b>	
24.1 25.0 25.1 25.2 25.3	Type  COLOUR- Exterior Interior Frame & suspension	White Blue or grey, <b>state-</b> Primed and finished with black Imron 5000 paint	
24.1 25.0 25.1 25.2	Type  COLOUR- Exterior Interior	White Blue or grey, <b>state-</b>	
24.1 25.0 25.1 25.2 25.3 25.4	Type  COLOUR- Exterior Interior Frame & suspension Wheels	White Blue or grey, <b>state-</b> Primed and finished with black Imron 5000 paint	
24.1 25.0 25.1 25.2 25.3 25.4 26.0	Type  COLOUR- Exterior Interior Frame & suspension Wheels  ACCESSORIES-	White Blue or grey, <b>state-</b> Primed and finished with black Imron 5000 paint Aluminium	
24.1  25.0  25.1  25.2  25.3  25.4  26.0  26.1	Type  COLOUR- Exterior Interior Frame & suspension Wheels  ACCESSORIES- Flare kit	White Blue or grey, <b>state-</b> Primed and finished with black Imron 5000 paint Aluminium  Three (3) triangular reflectors, CVSA approved	
24.1 25.0 25.1 25.2 25.3 25.4 26.0	Type  COLOUR- Exterior Interior Frame & suspension Wheels  ACCESSORIES-	White Blue or grey, <b>state-</b> Primed and finished with black Imron 5000 paint Aluminium	
24.1  25.0  25.1  25.2  25.3  25.4  26.0  26.1	Type  COLOUR- Exterior Interior Frame & suspension Wheels  ACCESSORIES- Flare kit	White Blue or grey, <b>state-</b> Primed and finished with black Imron 5000 paint Aluminium  Three (3) triangular reflectors, CVSA approved (20) lbs. Fire Extinguisher CVSA approved	
24.1  25.0  25.1  25.2  25.3  25.4  26.0  26.1	Type  COLOUR- Exterior Interior Frame & suspension Wheels  ACCESSORIES- Flare kit	White Blue or grey, state- Primed and finished with black Imron 5000 paint Aluminium  Three (3) triangular reflectors, CVSA approved (20) lbs. Fire Extinguisher CVSA approved Mounted as per manufactures recommendation. State location-	
24.1 25.0 25.1 25.2 25.3 25.4 26.0 26.1 26.2	Type  COLOUR- Exterior Interior Frame & suspension Wheels  ACCESSORIES- Flare kit Fire Extinguisher	White Blue or grey, state- Primed and finished with black Imron 5000 paint Aluminium  Three (3) triangular reflectors, CVSA approved (20) lbs. Fire Extinguisher CVSA approved Mounted as per manufactures recommendation.	
24.1 25.0 25.1 25.2 25.3 25.4 26.0 26.1 26.2	Type  COLOUR- Exterior Interior Frame & suspension Wheels  ACCESSORIES- Flare kit Fire Extinguisher	White Blue or grey, state- Primed and finished with black Imron 5000 paint Aluminium  Three (3) triangular reflectors, CVSA approved (20) lbs. Fire Extinguisher CVSA approved Mounted as per manufactures recommendation. State location- Required in Cab and secured	
24.1  25.0  25.1  25.2  25.3  25.4  26.0  26.1  26.2	COLOUR- Exterior Interior Frame & suspension Wheels  ACCESSORIES- Flare kit Fire Extinguisher  First Aid Kit	White Blue or grey, state- Primed and finished with black Imron 5000 paint Aluminium  Three (3) triangular reflectors, CVSA approved (20) lbs. Fire Extinguisher CVSA approved Mounted as per manufactures recommendation. State location- Required in Cab and secured	
24.1  25.0  25.1  25.2  25.3  25.4  26.0  26.1  26.2  26.3	COLOUR- Exterior Interior Frame & suspension Wheels  ACCESSORIES- Flare kit Fire Extinguisher  First Aid Kit  CHASSIS WARRANTY	White Blue or grey, state- Primed and finished with black Imron 5000 paint Aluminium  Three (3) triangular reflectors, CVSA approved (20) lbs. Fire Extinguisher CVSA approved Mounted as per manufactures recommendation. State location- Required in Cab and secured	
24.1  25.0  25.1  25.2  25.3  25.4  26.0  26.1  26.2  26.3  27.0  27.1	COLOUR- Exterior Interior Frame & suspension Wheels  ACCESSORIES- Flare kit Fire Extinguisher  First Aid Kit  CHASSIS WARRANTY Basic vehicle	White Blue or grey, state- Primed and finished with black Imron 5000 paint Aluminium  Three (3) triangular reflectors, CVSA approved (20) lbs. Fire Extinguisher CVSA approved Mounted as per manufactures recommendation. State location- Required in Cab and secured	

27.4	Cab structure/corrosion	Three (3) years, unlimited km	
27.5	Frame & cross member		
27.6	Cab paint	One (1) year or 100 000 km	
27.7	Engine	Six (6) years or 400,000 km	
27.7.1	Injectors & Turbo	State maximum years and kilometres	
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 <u>TYPE-</u>

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.
- 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 <u>MIXER</u> 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-**1/4" 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.	;
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.	
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	
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.	
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.	
3.7	WATER SYSTEM-	125 gallon, side mounted <u>aluminum</u> water tank; (3) three positions fill, dump and hold valve; high pressure relief 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.	f valve;
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.	
3.9	CHARGE HOPPER-	38" X 30" top opening; 19" minimum throat dimension.	
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.	
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.	
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 steelhardware and rubber washers; full tande length with powder coated CorTen "A" centre and end sup Mud flaps front and rear.	
3.15	<u>LIGHTS-</u>	Trucklite brand clearance, marker and identification lamps with integral reflectors in accordance with FMVSS.  Trucklite sealed junctions box and armour shielded wring 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		nufactures recommended training time for the (Cab & Chassis and Body Equipment).	

5.1	The warranty for the <b>body equipment</b> shall cover the complete equipment, and all parts thereof against any defects of workmanship, construction and materials, for a period of not less than <b>one (1) year unlimited hours on mixer body and associated equipment.</b> 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.	
6.0	<u>DELIVERY POINT</u> - 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.	
6.1	<u>DELIVERY TIME-</u> 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.	
6.2	<b><u>DELIVERY CONTACT</u></b> - The Contractor shall contact the Contract Administrator prior to delivery of the equipment.	
6.3	<u>P.D.I-</u> A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list	
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.	
7.1	<b>State</b> , quantity of greasing points on mixer body & Truck cab & chassis.	