

PART A

BID SUBMISSION

FORM A: BID
(See B7)

1. Project Title SUPPLY & DELIVERY OF CLASS 7 CAB & CHASSIS VEHICLES

2. Bidder

Name of Bidder

Street

City

Province

Postal Code

(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 D3.1 unless the context otherwise requires.

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 Purchase Order authorizing the commencement of the Work.

Template Version: G320040301

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 Submission.

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(R1): PRICES
 (See B8)

SUPPLY & DELIVERY OF CLASS 7 CAB & CHASSIS VEHICLES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
1	29,000# GVWR Cab & Chassis Vehicle	06015	Each	6	\$ _____	\$ _____
1a	29,000# GVWR Cab & Chassis Vehicle w/Option 1: 84" CA	06015	Each	3	\$ _____	\$ _____
1b	Parts, Repair and Service Manuals for Item 1	06015	Each	2	\$ _____	\$ _____
2	31,000# GVWR Cab & Chassis Vehicle	06049	Each	1	\$ _____	\$ _____
3	29,000# GVWR Extended Cab & Chassis Vehicle	06064	Each	1	\$ _____	\$ _____
4	29,000# GVWR Crew Cab & Chassis Vehicle	06065	Each	1	\$ _____	\$ _____
4a	29,000# GVWR Crew Cab & Chassis Vehicle w/Option 2: 144" CA and Option 3: Low Pro Tires	06065	Each	1	\$ _____	\$ _____
TOTAL BID PRICE (GST and PST extra) (in figures) \$ _____ (in words) _____ _____						

 Name of Bidder

FORM N: DETAILED SPECIFICATIONS 06015 – ITEM 1

29,000 LBS. GVWR CAB & CHASSIS VEHICLE

1.0 TYPE

1.1 Shall be a minimum 29,000 lbs. GVWR Conventional Cab & Chassis suitable for use as a 13' x 8' dump body truck. The vehicle shall be furnished complete and ready for use with all features and equipment as described herein.

1.2 **STATE MAKE AND MODEL BEING BID:** _____

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 completed unit and all its components shall comply with all C.M.V.S.S. and Manitoba Highway Traffic Act regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker on the driver's side window.

3.0 SERVICE FACILITY

3.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility located within 10 km 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.

3.2 If a suitable warranty facility is not available within 10 km of the boundaries of the City of Winnipeg, the Bidder may propose that warranty work be performed by the City of Winnipeg Repair Facility. Any Work performed by the City of Winnipeg Repair Facility shall be charged to the Contractor at the Facility's shop rate in effect at the time the work is performed (for example, shop rate for 2007: \$80.00/hour regular time, \$105.00/hr overtime and callout).

4.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

4.1 All items in these specifications must be answered indicating compliance or non-compliance. **Bidders shall state "yes" for compliance or state deviation**, or give reply where requested to do so. Deviations shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.

4.2 Each bidder is required to fill in every blank. **Failure to do so may be used as a basis for rejection of bid.**

ITEM	SPECIFICATION	BIDDER TO STATE "YES" OR STATE DEVIATION
5.0	GVWR	
5.1	Total	29,000 lbs. _____
5.2	Front	10,000 lbs. minimum _____

DETAILED SPECIFICATIONS 06015 – ITEM 1 (continued)

5.3	Rear	19,000 lbs. minimum	_____
6.0 Chassis Dimensions			
6.1	Cab-to-axle	108 in.	_____
6.2	Wheelbase	175 in. approx., state	_____
6.3	Overall width	Maximum overall width (including mirrors) shall not exceed 109 in.	_____
7.0 Engine			
7.1	Eligible models	DT 466, MBE 900 or CAT C7, state make, model and displacement	_____
7.2	Horsepower	210 HP gross minimum	_____
7.3	Torque	520 lb-ft minimum	_____
7.4	Engine shut down	Low oil pressure / high water temperature	_____
7.5	Anti-idling programming	Required to shut engine off after 15-minutes	_____
7.6	Air intake warmer	Required	_____
7.7	Fuel shut-off	Electric solenoid type	_____
7.8	Air cleaner	Dry type	_____
7.9	Air intake restriction ind.	Dash mounted restriction indicator	_____
7.10	Oil drain plug	Magnetic type	_____
7.11	Oil filter	Full flow, spin-on or cartridge type	_____
7.12	Fuel filter	Spin-on or cartridge type	_____
7.13	Fuel/water separator	Heated, drainable, mounted under hood, located to be protected from road spray	_____
7.14	Block heater	Immersion type, 750 Watt minimum with plastic, covered recessed male plug, located under driver's side door	_____
7.15	Coolant	Extended life coolant, antifreeze to -35°F (-37°C)	_____
7.16	Coolant hoses	Silicone type, Gates Blue Stripe or Premium type hoses	_____
7.17	Fan Drive	Thermostatically controlled, automatic type	_____
7.18	Air compressor	Water cooled, pressure lubricated, minimum 13 cfm	_____
8.0 Electrical system			
8.1	Chassis wiring	Multiplexed wiring (See B13.5)	_____
8.2	Alternator	Delco Remy 34-SI, 135 Amp minimum	_____
8.3	Starter	Delco Remy 41-MT/OCP 450 Series with thermal protection	_____
8.4	Batteries	Three (3), 12-volt, group 31, 1800 CCA combined capacity minimum	_____

DETAILED SPECIFICATIONS 06015 – ITEM 1 (continued)

8.5	Battery Box	Under cab or frame mounted c/w enclosure, readily accessible, state location	_____
8.6	Battery disconnect	In-cab mounted, state location	_____
8.7	Remote boost terminal	Remote battery boost terminal(s), protected from road spray, covered, state location	_____
8.8	Cab marker lights	LED	_____
8.9	Trailer plug wiring	Routed to end of frame plus extra 3 ft. of wiring, c/w 6-Pole socket, Grote 82-1068 or equal. Circuit shall be fused separately from main truck lighting	_____
8.10	Back-up alarm	STAR 62-097, 97dBA, located on inside-rear of frame rails	_____
8.11	2-way radio circuit	Independent 20 Amp circuit, ignition powered, wired under dash loose, labelled	_____
8.12	Accessory switches	Two (2) required, dash mounted for "Beacon" and additional switch labelled "Aux". All switches complete and wired for body installation, labelled and backlit	_____
9.0 Exhaust system			
9.1	Configuration	Single horizontal muffler and tailpipe	_____
10.0 Transmission			
10.1	Model	Allison 2500 RDS Series	_____
10.2	Shift selector	Dash mounted digital push button or column shift preferred, floor mounted shifter acceptable, state type	_____
10.3	Cooling	Water to oil transmission cooler	_____
10.4	PTO provision	Required with maximum clearance from exhaust	_____
10.5	Oil level dipstick	Bayonet type with high and low level markings	_____
10.6	Trans. drain plug	Magnetic type	_____
11.0 Front axle			
11.1	Capacity	10,000 lbs. capacity minimum	_____
12.0 Rear axle			
12.1	Capacity	19,000 lbs. capacity minimum	_____
12.2	Ratio	For 110 km/hr top speed, state ratio	_____
12.3	Differential lock	Required for rear drive axle w/dash mtd. switch	_____
13.0 Front suspension			
13.1	Type	Taper leaf spring suspension, 10,000 lbs. capacity minimum	_____
14.0 Rear suspension			
14.1	Type	Air ride suspension, 19,000 lbs. capacity minimum with lateral air bag support beam, state make and model of suspension being bid	_____

DETAILED SPECIFICATIONS 06015 – ITEM 1 (continued)

14.2	Susp. control valve	Manual dump valve for air suspension c/w dash mtd. switch, indicator light, gauge and buzzer	_____
15.0 Rims, wheels, hubs			
15.1	Front	22.5 x 8.25 steel disk, 10-bolt, hub piloted	_____
15.2	Rear	22.5 x 8.25 steel disk, 10-bolt, hub piloted	_____
15.3	Hubs	Steel or iron hubs, front and rear	_____
15.4	Hub seals	Oil lubricated front and rear	_____
15.5	Wheel nut indicators	Required on all wheel nuts, front and rear	_____
16.0 Tires, front			
16.1	Make & model	Michelin XZE or Goodyear G149 RSA, 14-ply, state tires	_____
16.2	Size	11R 22.5	_____
17.0 Tires, rear			
17.1	Make & model	Michelin XDE M/S or Goodyear G328, 14-ply, state tires	_____
17.2	Size	11R 22.5	_____
18.0 Frame			
18.1	Type	To match GVWR, 500,000 in.-lbs. RBM minimum, outside frame clear	_____
18.2	Application	Suitable for use with a 13' x 8' dump body	_____
18.3	Chassis fasteners	Grade-8 threaded hex headed frame fasteners or huck-spin fasteners	_____
18.4	Afterframe	As required for dump body and flat deck installation 60 in. minimum, state	_____
19.0 Steering			
19.1	Type	Power	_____
20.0 Brakes			
20.1	Type	Hydraulic, ABS, power with optional air supply	_____
20.2	Air drier	Wabco System Saver 1200, heated	_____
20.3	Moisture ejector	Bendix DV-2, heated, required in wet tank	_____
20.4	Drain valves	Manual, chain or cable operated, required on each air tank	_____
21.0 Fuel tank			
21.1	Type	Aluminium, 190 L minimum capacity, fully fuelled upon delivery	_____
21.2	Tank straps	Steel mounting straps with minimum 1/16 in. rubber or neoprene isolators	_____
21.3	Fuel separator	Heated, drainable	_____

DETAILED SPECIFICATIONS 06015 – ITEM 1 (continued)

22.0 Cab

22.1	Type	Conventional type, aluminum or steel w/corrosion inhibitor	_____
22.2	Hood	Fibreglass tilt	_____
22.3	Cab mounts	Air suspension	_____
22.4	Cab interior/trim	Extreme climate insulation including cloth or vinyl headliner on roof, door panels and rear interior of cab	_____
22.5	Cab silencer package	Required for minimal decibel level	_____
22.6	Hood/Firewall/Engine	Insulated hood liner, engine cover and firewall	_____
22.7	Floor covering	Rubber mat with under-padding	_____
22.8	Floor mats	Two (2), rubber	_____
22.9	Driver's seat	High back, air suspension w/foldable right hand armrest, seat belt, heavy-duty cloth upholstery, Cordura or equal, state material	_____
22.10	Passenger seat	2-person bench with seat belts, heavy-duty cloth upholstery or vinyl knit, state material	_____
22.11	Sun visors	Dual flip-up type	_____
22.12	Steering wheel	Tilt type	_____
22.13	12-Volt power outlet	Required	_____
22.14	Radio	Factory installed AM/FM	_____
22.15	Starter switch	Key operated c/w three (3) sets of keys	_____
22.16	Interior light	Dome light with driver and passenger door switches	_____
22.17	Heater / Defroster	High output, capable of keeping all windows clear at an outside temperature of -35°F (-37°C)	_____
22.18	Air conditioning	Required	_____
22.19	Brake & accel. pedals	Hanging type brake and accelerator pedals	_____
22.20	Horn	Dual electric	_____
22.21	Exterior mirrors	Dual West Coast, stainless steel or polycarbonate, 7" x 14½" min.,	_____
22.22	Convex mirrors	6 in. aux., stainless steel, mtd. below West Coast mirrors, or integral type with polycarbonate mirrors, one (1) per side	_____
22.23	Windows & windshield	Tinted	_____
22.24	Windshield wipers	Electric, intermittent, arctic type blades	_____
22.25	Windshield washers	Electric	_____
22.26	Grab handles	Dual exterior	_____

DETAILED SPECIFICATIONS 06015 – ITEM 1 (continued)

22.27	Entrance steps	Dual each side, open grate / grip type	_____
22.28	Winter front	Heavy-duty vinyl w/twist lock or snap type fasteners	_____
23.0	Instrumentation		
23.1	Oil pressure	Gauge	_____
23.2	Coolant temperature	Gauge	_____
23.3	Transmission oil temp.	Gauge	_____
23.4	LOP/HWT	Warning light and buzzer	_____
23.5	Voltmeter	Gauge	_____
23.6	Air reservoir pressure	Gauge with LAP warning light and buzzer	_____
23.7	Engine hourmeter	Required, non-resetable type	_____
24.0	Tow hooks		
24.1	Location	Front mounted	_____
25.0	Front bumper		
25.1	Type	Steel, full width	_____
26.0	Colour and Finish		
26.1	Exterior	White	_____
26.2	Interior	Blue or grey	_____
26.3	Frame & suspension	Primed and finished with black Imron 5000 paint or equivalent	_____
26.4	Front bumper	Argent	_____
26.5	Wheels	Powder coated white	_____
27.0	Accessories		
27.1	Flare kit	Three (3) triangular reflectors, CVSA approved	_____
27.2	Fire extinguisher	10 lb. ABC type, required in cab with mounting bracket	_____
28.0	Manuals		
28.1	Operator's manual	Required, one (1) per vehicle	_____
28.2	Parts/Repair/Service	Required, including preventative maintenance schedules for life of unit, quantity as per Form B: Prices	_____
29.0	Warranty		
29.1	Basic vehicle	Two (2) years, unlimited km	_____
29.2	Batteries	One (1) year or 100 000 km	_____
29.3	Drivetrain	Two (2) years, unlimited km	_____
29.4	Cab structure/corrosion	Five (5) years, unlimited km	_____

DETAILED SPECIFICATIONS 06015 – ITEM 1 (continued)

29.5	Frame & crossmembers	Five (5) years, unlimited km	_____
29.6	Cab paint	One (1) year or 100 000 km	_____
29.7	Engine	Four (4) years or 320 000 km including engine Electronics and injectors	_____
29.8	Towing coverage	Four (4) year or 320 000 km	_____
29.9	Transmission	Two (2) years, unlimited km	_____
29.10	Axles, front & rear	Two (2) years or 240 000 km	_____
29.11	Exhaust System	Four (4) years or 160,000 km	_____
30.0 Delivery			
30.1	Delivery point	Equipment shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid to the WFMA 185 Tecumseh Street, Winnipeg, Manitoba	_____
30.2	Delivery time	Within 26 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	_____
30.3	Delivery contact	The Contractor shall contact the Contract Administrator prior to delivery of the equipment	_____
30.4	Vehicle specifics	The Contractor shall fax all vehicle serial numbers, hours/mileage to the Contract Administrator 1-calendar week prior to delivery	_____
30.5	PDI	A pre-delivery inspection shall be performed by the Contractor on all equipment	_____
31.0 Option – ITEM 1a			
Note: Options to be priced only as indicated on Form B: Prices.			
31.1	Option 1: Cab to axle	84 in. CA, 151 in. WB approx., state	_____

DETAILED SPECIFICATIONS 06049 – ITEM 2
31,000 LBS. GVWR CAB & CHASSIS VEHICLE

1.0 TYPE

1.1 Shall be a minimum 31,000 lbs. GVWR Conventional Cab & Chassis suitable for use as a 20 ft. flat deck truck. The vehicle shall be furnished complete and ready for use with all features and equipment as described herein.

1.2 **STATE YEAR, MAKE AND MODEL BEING BID:** _____

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 completed unit and all its components shall comply with all C.M.V.S.S. and Manitoba Highway Traffic Act regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker on the driver's side window.

3.0 SERVICE FACILITY

3.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility located within 10 km 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.

3.2 If a suitable warranty facility is not available within 10 km of the boundaries of the City of Winnipeg, the Bidder may propose that warranty work be performed by the City of Winnipeg Repair Facility. Any Work performed by the City of Winnipeg Repair Facility shall be charged to the Contractor at the Facility's shop rate in effect at the time the work is performed (for example, shop rate for 2007: \$80.00/hour regular time, \$105.00/hr overtime and callout).

4.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

4.1 All items in these specifications must be answered indicating compliance or non-compliance. **Bidders shall state "yes" for compliance or state deviation**, or give reply where requested to do so. Deviations shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.

4.2 Each bidder is required to fill in every blank. **Failure to do so may be used as a basis for rejection of bid.**

ITEM	SPECIFICATION	BIDDER TO STATE "YES" OR STATE DEVIATION
5.0	GVWR	
5.1	Total	31,000 lbs. _____
5.2	Front	12,000 lbs. minimum _____

DETAILED SPECIFICATIONS 06049 – ITEM 2 (continued)

5.3	Rear	19,000 lbs. minimum	_____
6.0	Chassis Dimensions		
6.1	Cab-to-axle	152 in.	_____
6.2	Wheelbase	219 in. approx., state	_____
7.0	Engine		
7.1	Eligible models	DT 466, MBE 900 or CAT C7, state make, model and displacement	_____
7.2	Horsepower	250 HP gross minimum	_____
7.3	Torque	800 lb-ft minimum	_____
7.4	Engine shut down	Low oil pressure / high water temperature	_____
7.5	Anti-idling programming	Required to shut engine off after 15-minutes	_____
7.6	Air intake warmer	Required	_____
7.7	Fuel shut-off	Electric solenoid type	_____
7.8	Air cleaner	Dry type	_____
7.9	Air intake restriction ind.	Dash mounted restriction indicator	_____
7.10	Oil drain plug	Magnetic type	_____
7.11	Oil filter	Full flow, spin-on or cartridge type	_____
7.12	Fuel filter	Spin-on or cartridge type	_____
7.13	Fuel/water separator	Heated, drainable, mounted under hood, located to be protected from road spray	_____
7.14	Block heater	Immersion type, 750 Watt minimum with plastic, covered recessed male plug, located under driver's side door	_____
7.15	Coolant	Extended life coolant, antifreeze to -35°F (-37°C)	_____
7.16	Coolant hoses	Silicone type, Gates Blue Stripe or Premium hoses	_____
7.17	Fan Drive	Thermostatically controlled, automatic type	_____
7.18	Air compressor	Water cooled, pressure lubricated, minimum 13 cfm	_____
8.0	Electrical system		
8.1	Chassis wiring	Multiplexed wiring (See B13.5)	_____
8.2	Alternator	Delco Remy 34-SI, 135 Amp minimum	_____
8.3	Starter	Delco Remy 41-MT/OCP 450 Series with thermal protection	_____
8.4	Batteries	Three (3), 12-volt, group 31, 1800 CCA combined capacity minimum	_____
8.5	Battery Box	Under cab or frame mounted c/w enclosure, readily accessible, state location	_____

DETAILED SPECIFICATIONS 06049 – ITEM 2 (continued)

8.6	Battery disconnect	In-cab mounted, state location	_____
8.7	Remote boost terminal	Remote battery boost terminal(s), protected from road spray, covered, state location	_____
8.8	Cab marker lights	LED	_____
8.9	Trailer plug wiring	Routed to end of frame plus extra 3 ft. of wiring, c/w 6-Pole socket, Grote 82-1068 or equal. Circuit shall be fused separately from main truck lighting	_____
8.10	Back-up alarm	STAR 62-097, 97dBA, located on inside-rear of frame rails	_____
8.11	2-way radio circuit	Independent 20 Amp circuit, ignition powered, wired under dash loose, labelled	_____
8.12	Accessory switches	Two (2) required, dash mounted for "Beacon" and additional switch labelled "Aux". All switches complete and wired for body installation, labelled and backlit	_____
9.0 Exhaust system			
9.1	Configuration	Single horizontal muffler, chrome vertical discharge on passenger side, underframe routing. Vertical portion shall be rubber mounted, attached to cab. Vertical portion shall not protrude past the rear of the cab	_____
9.2	Discharge tip	Chrome backslash type end	_____
9.3	Overall exhaust height	16 in. higher than cab roof	_____
9.4	Heat shield	Chrome, covering vertical portion of exhaust c/w grab handle	_____
10.0 Transmission			
10.1	Model	Allison 3500 RDS Series with 6-speed programming	_____
10.2	Shift selector	Dash mounted digital push button	_____
10.3	Cooling	Water to oil transmission cooler	_____
10.4	PTO provision	Required with maximum clearance from exhaust	_____
10.5	Oil level dipstick	Bayonet type with high and low level markings	_____
10.6	Trans. drain plug	Magnetic type	_____
11.0 Front axle			
11.1	Capacity	12,000 lbs. capacity minimum	_____
12.0 Rear axle			
12.1	Capacity	19,000 lbs. capacity minimum	_____
12.2	Ratio	For 115 km/hr top speed, state ratio	_____
12.3	Differential lock	Required for rear drive axle w/dash mtd. switch	_____
13.0 Front suspension			
13.1	Type	Taper leaf spring suspension, 12,000 lbs. capacity minimum	_____

DETAILED SPECIFICATIONS 06049 – ITEM 2 (continued)

14.0 Rear suspension

- 14.1 Type Air ride suspension, 19,000 lbs. capacity minimum with lateral air bag support beam, state make and model of suspension being bid _____
- 14.2 Susp. control valve Manual dump valve for air suspension c/w dash mtd. switch, indicator light, gauge and buzzer _____

15.0 Rims, wheels, hubs

- 15.1 Front 22.5 x 8.25 steel disk, 10-bolt, hub piloted _____
- 15.2 Rear 22.5 x 8.25 steel disk, 10-bolt, hub piloted _____
- 15.3 Hubs Steel or iron hubs, front and rear _____
- 15.4 Hub seals Oil lubricated front and rear _____
- 15.5 Wheel nut indicators Required on all wheel nuts, front and rear _____

16.0 Tires, front

- 16.1 Make & model Michelin XZE or Goodyear G149 RSA, 14-ply, state tires _____
- 16.2 Size 11R 22.5 _____

17.0 Tires, rear

- 17.1 Make & model Michelin XDE M/S or Goodyear G328, 14-ply, state tires _____
- 17.2 Size 11R 22.5 _____

18.0 Frame

- 18.1 Type To match GVWR, 500,000 in.-lbs. RBM minimum, outside frame clear _____
- 18.2 Application Suitable for use with a 20' x 8' flat deck _____
- 18.3 Chassis fasteners Grade-8 threaded hex headed frame fasteners or huck-spin fasteners _____
- 18.4 Afterframe As required for 20 ft. flat deck installation, 96 in. minimum, state _____

19.0 Steering

- 19.1 Type Power _____

20.0 Brakes

- 20.1 Type Hydraulic, ABS, power with optional air supply _____
- 20.2 Air drier Wabco System Saver 1200, heated _____
- 20.3 Moisture ejector Bendix DV-2, heated, required in wet tank _____
- 20.4 Drain valves Manual, chain or cable operated, required on each air tank _____

21.0 Fuel tank

- 21.1 Type Aluminium, 190 L minimum capacity, fully fuelled upon delivery _____

DETAILED SPECIFICATIONS 06049 – ITEM 2 (continued)

21.2	Tank straps	Steel mounting straps with minimum 1/16 in. rubber or neoprene isolators	_____
21.3	Fuel separator	Heated, drainable	_____
22.0	Cab		
22.1	Type	Conventional type, aluminum or steel w/corrosion inhibitor	_____
22.2	Hood	Fibreglass tilt	_____
22.3	Cab mounts	Air suspension	_____
22.4	Cab interior/trim	Extreme climate insulation including cloth or vinyl headliner on roof, door panels and rear interior of cab	_____
22.5	Cab silencer package	Required for minimal decibel level	_____
22.6	Hood/Firewall/Engine	Insulated hood liner, engine cover and firewall	_____
22.7	Floor covering	Rubber mat with under-padding	_____
22.8	Floor mats	Two (2), rubber	_____
22.9	Driver's seat	High back, air suspension w/foldable right side armrest, seat belt, heavy-duty cloth upholstery, Cordura or equal, state material	_____
22.10	Passenger seat	2-person bench with seat belts, heavy-duty cloth upholstery or vinyl knit, state material	_____
22.11	Sun visors	Dual flip-up type	_____
22.12	Steering wheel	Tilt type	_____
22.13	12-Volt power outlet	Required	_____
22.14	Radio	Factory installed AM/FM	_____
22.15	Starter switch	Key operated c/w three (3) sets of keys	_____
22.16	Interior light	Dome light with driver and passenger door switches	_____
22.17	Heater / Defroster	High output, capable of keeping all windows clear at an outside temperature of -35°F (-37°C)	_____
22.18	Air conditioning	Required	_____
22.19	Brake & accel. pedals	Hanging type brake and accelerator pedals	_____
22.20	Horn	Dual electric	_____
22.21	Exterior mirrors	Dual West Coast, stainless steel or polycarbonate, 7" x 14½" min., suitable for 102 in. equipment width	_____
22.22	Convex mirrors	6 in. aux., stainless steel, mtd. below West Coast mirrors, or integral type with polycarbonate mirrors, one (1) per side	_____
22.23	Windows & windshield	Tinted	_____

DETAILED SPECIFICATIONS 06049 – ITEM 2 (continued)

22.24	Windshield wipers	Electric, intermittent, arctic type blades	_____
22.25	Windshield washers	Electric	_____
22.26	Grab handles	Dual exterior	_____
22.27	Entrance steps	Dual each side, open grate / grip type	_____
22.28	Winter front	Heavy-duty vinyl w/twist lock or snap type fasteners	_____
23.0	Instrumentation		
23.1	Oil pressure	Gauge	_____
23.2	Coolant temperature	Gauge	_____
23.3	Transmission oil temp.	Gauge	_____
23.4	LOP/HWT	Warning light and buzzer	_____
23.5	Voltmeter	Gauge	_____
23.6	Air reservoir pressure	Gauge with LAP warning light and buzzer	_____
23.7	Engine hourmeter	Required, non-resetable type	_____
24.0	Tow hooks		
24.1	Location	Front mounted	_____
25.0	Front bumper		
25.1	Type	Steel, full width	_____
26.0	Colour and Finish		
26.1	Exterior	White	_____
26.2	Interior	Blue or grey	_____
26.3	Frame & suspension	Primed and finished with black Imron 5000 paint or equivalent	_____
26.4	Front bumper	Argent	_____
26.5	Wheels	Powder coated white	_____
27.0	Accessories		
27.1	Flare kit	Three (3) triangular reflectors, CVSA approved	_____
27.2	Fire extinguisher	10 lb. ABC type, required in cab with mounting bracket	_____
28.0	Manuals		
28.1	Operator's manual	Required, one (1) per vehicle	_____
29.0	Warranty		
29.1	Basic vehicle	Two (2) years, unlimited km	_____
29.2	Batteries	One (1) year or 100 000 km	_____
29.3	Drivetrain	Two (2) years, unlimited km	_____

DETAILED SPECIFICATIONS 06049 – ITEM 2

29.4	Cab structure/corrosion	Five (5) years, unlimited km	_____
29.5	Frame & crossmembers	Five (5) years, unlimited km	_____
29.6	Cab paint	One (1) year or 100 000 km	_____
29.7	Engine	Four (4) years or 320 000 km including engine electronics and injectors	_____
29.8	Towing coverage	Four (4) year or 320 000 km	_____
29.9	Transmission	Two (2) years, unlimited km	_____
29.10	Axles, front & rear	Two (2) years or 240 000 km	_____
29.11	Exhaust System	Four (4) years of 160,000 km	_____
30.0	Delivery		
30.1	Delivery point	Equipment shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid to the WFMA 185 Tecumseh Street, Winnipeg, Manitoba	_____
30.2	Delivery time	Within 26 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	_____
30.3	Delivery contact	The Contractor shall contact the Contract Administrator prior to delivery of the equipment	_____
30.4	Vehicle specifics	The Contractor shall fax all vehicle serial numbers, hours/mileage to the Contract Administrator 1-calendar week prior to delivery	_____
30.5	PDI	A pre-delivery inspection shall be performed by the Contractor on all equipment	_____

DETAILED SPECIFICATIONS 06064 – ITEM 3

29,000 LBS. GVWR EXTENDED CAB & CHASSIS VEHICLE

1.0 TYPE

1.1 Shall be a minimum 29,000 lbs. GVWR Extended Cab & Chassis suitable for use as a 13 ft. flat deck truck. The vehicle shall be furnished complete and ready for use with all features and equipment as described herein.

1.2 **STATE MAKE AND MODEL BEING BID:** _____

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 completed unit and all its components shall comply with all C.M.V.S.S. and Manitoba Highway Traffic Act regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker on the driver's side window.

3.0 SERVICE FACILITY

3.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility located within 10 km 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.

3.2 If a suitable warranty facility is not available within 10 km of the boundaries of the City of Winnipeg, the Bidder may propose that warranty work be performed by the City of Winnipeg Repair Facility. Any Work performed by the City of Winnipeg Repair Facility shall be charged to the Contractor at the Facility's shop rate in effect at the time the work is performed (for example, shop rate for 2007: \$80.00/hour regular time, \$105.00/hr overtime and callout).

4.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

4.1 All items in these specifications must be answered indicating compliance or non-compliance. **Bidders shall state "yes" for compliance or state deviation**, or give reply where requested to do so. Deviations shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.

4.2 Each bidder is required to fill in every blank. **Failure to do so may be used as a basis for rejection of bid.**

ITEM	SPECIFICATION	BIDDER TO STATE "YES" OR STATE DEVIATION
5.0	GVWR	
5.1	Total	29,000 lbs. _____
5.2	Front	10,000 lbs. minimum _____

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DETAILED SPECIFICATIONS 06064 – ITEM 3 (continued)

5.3	Rear	19,000 lbs. minimum	_____
6.0 Chassis Dimensions			
6.1	Cab-to-axle	108 in.	_____
6.2	Wheelbase	207 in. approx., state	_____
7.0 Engine			
7.1	Eligible models	DT 466, MBE 900 or CAT C7, state make, model and displacement	_____
7.2	Horsepower	210 HP gross minimum	_____
7.3	Torque	520 lb-ft minimum	_____
7.4	Engine shut down	Low oil pressure / high water temperature	_____
7.5	Anti-idling programming	Required to shut engine off after 15-minutes	_____
7.6	Air intake warmer	Required	_____
7.7	Fuel shut-off	Electric solenoid type	_____
7.8	Air cleaner	Dry type	_____
7.9	Air intake restriction ind.	Dash mounted restriction indicator	_____
7.10	Oil drain plug	Magnetic type	_____
7.11	Oil filter	Full flow, spin-on or cartridge type	_____
7.12	Fuel filter	Spin-on or cartridge type	_____
7.13	Fuel/water separator	Heated, drainable, mounted under hood, located to be protected from road spray	_____
7.14	Block heater	Immersion type, 750 Watt minimum with plastic, covered recessed male plug, located under driver's side door	_____
7.15	Coolant	Extended life coolant, antifreeze to -35°F (-37°C)	_____
7.16	Coolant hoses	Silicone type, Gates Blue Stripe or Premium type hoses	_____
7.17	Fan Drive	Thermostatically controlled, automatic type	_____
7.18	Air compressor	Water cooled, pressure lubricated, minimum 13 cfm	_____
8.0 Electrical system			
8.1	Chassis wiring	Multiplexed wiring (See B13.5)	_____
8.2	Alternator	Delco Remy 34-SI, 135 Amp minimum	_____
8.3	Starter	Delco Remy 41-MT/OCP 450 Series with thermal protection	_____
8.4	Batteries	Three (3), 12-volt, group 31, 1800 CCA combined capacity minimum	_____
8.5	Battery Box	Under cab or frame mounted c/w enclosure, readily accessible, state location	_____

DETAILED SPECIFICATIONS 06064 – ITEM 3 (continued)

8.6	Battery disconnect	In-cab mounted, state location	_____
8.7	Remote boost terminal	Remote battery boost terminal(s), protected from road spray, covered, state location	_____
8.8	Cab marker lights	LED	_____
8.9	Trailer plug wiring	Routed to end of frame plus extra 3 ft. of wiring, c/w 6-Pole socket, Grote 82-1068 or equal. Circuit shall be fused separately from main truck lighting	_____
8.10	Back-up alarm	STAR 62-097, 97dBA, located on inside-rear of frame rails	_____
8.11	2-way radio circuit	Independent 20 Amp circuit, ignition powered, wired under dash loose, labelled	_____
8.12	Accessory switches	Two (2) required, dash mounted for "Beacon" and additional switch labelled "Aux". All switches complete and wired for body installation, labelled and backlit	_____
9.0	Exhaust system		
9.1	Configuration	Single horizontal muffler, chrome vertical discharge on passenger side, underframe routing. Vertical portion shall be rubber mounted, attached to cab. Vertical portion shall not protrude past the rear of the cab	_____
9.2	Discharge tip	Chrome backlash type end	_____
9.5	Overall exhaust height	16 in. higher than cab roof	_____
9.6	Heat shield	Chrome, covering vertical portion of exhaust c/w grab handle	_____
10.0	Transmission		
10.1	Model	Allison 2500 RDS Series	_____
10.2	Shift selector	Dash mounted digital push button or column shift preferred, floor mounted shifter acceptable, state type	_____
10.3	Cooling	Water to oil transmission cooler	_____
10.4	PTO provision	Required with maximum clearance from exhaust	_____
10.5	Oil level dipstick	Bayonet type with high and low level markings	_____
10.6	Trans. drain plug	Magnetic type	_____
11.0	Front axle		
11.1	Capacity	10,000 lbs. capacity minimum	_____
12.0	Rear axle		
12.1	Capacity	19,000 lbs. capacity minimum	_____
12.2	Ratio	For 110 km/hr top speed, state ratio	_____
12.3	Differential lock	Required for rear drive axle w/dash mtd. switch	_____

DETAILED SPECIFICATIONS 06064 – ITEM 3 (continued)

13.0 Front suspension

13.1 Type Taper leaf spring suspension, 10,000 lbs. capacity minimum

14.0 Rear suspension

14.1 Type Air ride suspension, 19,000 lbs. capacity minimum with lateral air bag support beam, state make and model of suspension being bid

14.2 Susp. control valve Manual dump valve for air suspension c/w dash mtd. switch, indicator light, gauge and buzzer

15.0 Rims, wheels, hubs

15.1 Front 22.5 x 8.25 steel disk, 10-bolt, hub piloted

15.2 Rear 22.5 x 8.25 steel disk, 10-bolt, hub piloted

15.3 Hubs Steel or iron hubs, front and rear

15.4 Hub seals Oil lubricated front and rear

15.5 Wheel nut indicators Required on all wheel nuts, front and rear

16.0 Tires, front

16.1 Make & model Michelin XZE or Goodyear G149 RSA, 14-ply, state tires

16.2 Size 11R 22.5

17.0 Tires, rear

17.1 Make & model Michelin XDE M/S or Goodyear G328, 14-ply, state tires

17.2 Size 11R 22.5

18.0 Frame

18.1 Type To match GVWR, 500,000 in.-lbs. RBM minimum, outside frame clear

18.2 Application Suitable for use with a 13' x 8' flat deck

18.3 Chassis fasteners Grade-8 threaded hex headed frame fasteners or huck-spin fasteners

18.4 Afterframe As required for 13 ft. flat deck installation, 60 in. minimum, state

19.0 Steering

19.1 Type Power

20.0 Brakes

20.1 Type Hydraulic, ABS, power with optional air supply

20.2 Air drier Wabco System Saver 1200, heated

DETAILED SPECIFICATIONS 06064 – ITEM 3 (continued)

20.3	Moisture ejector	Bendix DV-2, heated, required in wet tank	_____
20.4	Drain valves	Manual, chain or cable operated, required on each air tank	_____
21.0	Fuel tank		
21.1	Type	Aluminium, 190 L minimum capacity, fully fuelled upon delivery	_____
21.2	Tank straps	Steel mounting straps with minimum 1/16 in. rubber or neoprene isolators	_____
21.3	Fuel separator	Heated, drainable	_____
22.0	Cab		
22.1	Type	Extended cab, aluminum or steel w/corrosion inhibitor	_____
22.2	Hood	Fibreglass tilt	_____
22.3	Cab mounts	Air suspension	_____
22.4	Cab interior/trim	Extreme climate insulation including cloth or vinyl headliner on roof, door panels and rear interior of cab	_____
22.5	Cab silencer package	Required for minimal decibel level	_____
22.6	Hood/Firewall/Engine	Insulated hood liner, engine cover and firewall	_____
22.7	Floor covering	Rubber mat with under-padding	_____
22.8	Floor mats	Two (2), rubber	_____
22.9	Driver's seat	High back, air suspension w/foldable right hand armrest, seat belt, heavy-duty cloth upholstery, Cordura or equal, state material	_____
22.10	Passenger seat	High back, air suspension w/foldable left hand armrest, seat belt, heavy-duty cloth upholstery, Cordura or equal, state material	_____
22.11	Rear seat	Not required	_____
22.12	Sun visors	Dual flip-up type	_____
22.13	Steering wheel	Tilt type	_____
22.14	12-Volt power outlet	Required	_____
22.15	Radio	Factory installed AM/FM	_____
22.16	Starter switch	Key operated c/w three (3) sets of keys	_____
22.17	Interior light	Dome light with driver and passenger door switches	_____
22.18	Heater / Defroster	High output, capable of keeping all windows clear at an outside temperature of -35°F (-37°C)	_____
22.19	Air conditioning	Required	_____
22.20	Brake & accel. pedals	Hanging type brake and accelerator pedals	_____

DETAILED SPECIFICATIONS 06064 – ITEM 3 (continued)

22.21	Horn	Dual electric	_____
22.22	Exterior mirrors	Dual West Coast, stainless steel or polycarbonate, 7" x 14½" min., suitable for 102 in. equipment width	_____
22.23	Convex mirrors	6 in. aux., stainless steel, mtd. below West Coast mirrors, or integral type with polycarbonate mirrors, one (1) per side	_____
22.24	Windows & windshield	Tinted	_____
22.25	Windshield wipers	Electric, intermittent, arctic type blades	_____
22.26	Windshield washers	Electric	_____
22.27	Grab handles	Dual exterior	_____
22.28	Entrance steps	Dual each side, open grate / grip type	_____
22.29	Winter front	Heavy-duty vinyl w/twist lock or snap type fasteners	_____
23.0	Instrumentation		
23.1	Oil pressure	Gauge	_____
23.2	Coolant temperature	Gauge	_____
23.3	Transmission oil temp.	Gauge	_____
23.4	LOP/HWT	Warning light and buzzer	_____
23.5	Voltmeter	Gauge	_____
23.6	Air reservoir pressure	Gauge with LAP warning light and buzzer	_____
23.7	Engine hourmeter	Required, non-resetable type	_____
24.0	Tow hooks		
24.1	Location	Front mounted	_____
25.0	Front bumper		
25.1	Type	Steel, full width	_____
26.0	Colour and Finish		
26.1	Exterior	White	_____
26.2	Interior	Blue or grey	_____
26.3	Frame & suspension	Primed and finished with black Imron 5000 paint or equivalent	_____
26.4	Front bumper	Argent	_____
26.5	Wheels	Powder coated white	_____
27.0	Accessories		
27.1	Flare kit	Three (3) triangular reflectors, CVSA approved	_____
27.2	Fire extinguisher	10 lb. ABC type, required in cab with mounting bracket	_____

DETAILED SPECIFICATIONS 06064 – ITEM 3 (continued)

28.0 Manuals

28.1 Operator's manual Required, one (1) per vehicle _____

29.0 Warranty

29.1 Basic vehicle Two (2) years, unlimited km _____

29.2 Batteries One (1) year or 100 000 km _____

29.3 Drivetrain Two (2) years, unlimited km _____

29.4 Cab structure/corrosion Five (5) years, unlimited km _____

29.5 Frame & crossmembers Five (5) years, unlimited km _____

29.6 Cab paint One (1) year or 100 000 km _____

29.7 Engine Four (4) years or 320 000 km including engine electronics and injectors _____

29.8 Towing coverage Four (4) year or 320 000 km _____

29.9 Transmission Two (2) years, unlimited km _____

29.10 Axles, front & rear Two (2) years or 240 000 km _____

29.11 Exhaust System Four (4) years of 160,000 km _____

30.0 Delivery

30.1 Delivery point Equipment shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid to the WFMA 185 Tecumseh Street, Winnipeg, Manitoba _____

30.2 Delivery time Within 26 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 _____

30.3 Delivery contact The Contractor shall contact the Contract Administrator prior to delivery of the equipment _____

30.4 Vehicle specifics The Contractor shall fax all vehicle serial numbers, hours/mileage to the Contract Administrator 1-calendar week prior to delivery _____

30.5 PDI A pre-delivery inspection shall be performed by the Contractor on all equipment _____

DETAILED SPECIFICATIONS 06065 – ITEM 4
29,000 LBS. GVWR CREW CAB & CHASSIS VEHICLE

1.0 TYPE

1.1 Shall be a minimum 29,000 lbs. GVWR Crew Cab & Chassis suitable for use as a 13 ft. flat deck truck. The vehicle shall be furnished complete and ready for use with all features and equipment as described herein.

1.2 **STATE MAKE AND MODEL BEING BID:** _____

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 completed unit and all its components shall comply with all C.M.V.S.S. and Manitoba Highway Traffic Act regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker on the driver's side window.

3.0 SERVICE FACILITY

3.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility located within 10 km 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.

3.2 If a suitable warranty facility is not available within 10 km of the boundaries of the City of Winnipeg, the Bidder may propose that warranty work be performed by the City of Winnipeg Repair Facility. Any Work performed by the City of Winnipeg Repair Facility shall be charged to the Contractor at the Facility's shop rate in effect at the time the work is performed (for example, shop rate for 2007: \$80.00/hour regular time, \$105.00/hr overtime and callout).

4.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

4.1 All items in these specifications must be answered indicating compliance or non-compliance. **Bidders shall state "yes" for compliance or state deviation**, or give reply where requested to do so. Deviations shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.

4.2 Each bidder is required to fill in every blank. **Failure to do so may be used as a basis for rejection of bid.**

ITEM	SPECIFICATION	BIDDER TO STATE "YES" OR STATE DEVIATION
5.0	GVWR	
5.1	Total	29,000 lbs. _____
5.2	Front	10,000 lbs. minimum _____

DETAILED SPECIFICATIONS 06065 – ITEM 4 (continued)

5.3	Rear	19,000 lbs. minimum	_____
6.0 Chassis Dimensions			
6.1	Cab-to-axle	108 in.	_____
6.2	Wheelbase	229 in. approx., state	_____
7.0 Engine			
7.1	Eligible models	DT 466, MBE 900 or CAT C7, state make, model and displacement	_____
7.2	Horsepower	210 HP gross minimum	_____
7.3	Torque	520 lb-ft minimum	_____
7.4	Engine shut down	Low oil pressure / high water temperature	_____
7.5	Anti-idling programming	Required to shut engine off after 15-minutes	_____
7.6	Air intake warmer	Required	_____
7.7	Fuel shut-off	Electric solenoid type	_____
7.8	Air cleaner	Dry type	_____
7.9	Air intake restriction ind.	Dash mounted restriction indicator	_____
7.10	Oil drain plug	Magnetic type	_____
7.11	Oil filter	Full flow, spin-on or cartridge type	_____
7.12	Fuel filter	Spin-on or cartridge type	_____
7.13	Fuel/water separator	Heated, drainable, mounted under hood, located to be protected from road spray	_____
7.14	Block heater	Immersion type, 750 Watt minimum with plastic, covered recessed male plug, located under driver's side door	_____
7.15	Coolant	Extended life coolant, antifreeze to -35°F (-37°C)	_____
7.16	Coolant hoses	Silicone type, Gates Blue Stripe or Premium type hoses	_____
7.17	Fan Drive	Thermostatically controlled, automatic type	_____
7.18	Air compressor	Water cooled, pressure lubricated, minimum 13 cfm	_____
8.0 Electrical system			
8.1	Chassis wiring	Multiplexed wiring (See B13.5)	_____
8.2	Alternator	Delco Remy 34-SI, 135 Amp minimum	_____
8.3	Starter	Delco Remy 41-MT/OCP 450 Series with thermal protection	_____
8.4	Batteries	Three (3), 12-volt, group 31, 1800 CCA combined capacity minimum	_____
8.5	Battery Box	Under cab or frame mounted c/w enclosure, readily accessible, state location	_____

DETAILED SPECIFICATIONS 06065 – ITEM 4 (continued)

8.6	Battery disconnect	In-cab mounted, state location	_____
8.7	Remote boost terminal	Remote battery boost terminal(s), protected from road spray, covered, state location	_____
8.8	Cab marker lights	LED	_____
8.9	Trailer plug wiring	Routed to end of frame plus extra 3 ft. of wiring, c/w 6-Pole socket, Grote 82-1068 or equal. Circuit shall be fused separately from main truck lighting	_____
8.10	Back-up alarm	STAR 62-097, 97dBA, located on inside-rear of frame rails	_____
8.11	2-way radio circuit	Independent 20 Amp circuit, ignition powered, wired under dash loose, labelled	_____
8.12	Accessory switches	Two (2) required, dash mounted for "Beacon" and additional switch labelled "Aux". All switches complete and wired for body installation, labelled and backlit	_____
9.0 Exhaust system			
9.1	Configuration	Single horizontal muffler, chrome vertical discharge on passenger side, underframe routing. Vertical portion shall be rubber mounted, attached to cab. Vertical portion shall not protrude past the rear of the cab	_____
9.2	Discharge tip	Chrome backlash type end	_____
9.7	Overall exhaust height	16 in. higher than cab roof	_____
9.8	Heat shield	Chrome, covering vertical portion of exhaust c/w grab handle	_____
10.0 Transmission			
10.1	Model	Allison 2500 RDS Series	_____
10.2	Shift selector	Dash mounted digital push button or column shift preferred, floor mounted shifter acceptable, state type	_____
10.3	Cooling	Water to oil transmission cooler	_____
10.4	PTO provision	Required with maximum clearance from exhaust	_____
10.5	Oil level dipstick	Bayonet type with high and low level markings	_____
10.6	Trans. drain plug	Magnetic type	_____
11.0 Front axle			
11.1	Capacity	10,000 lbs. capacity minimum	_____
12.0 Rear axle			
12.1	Capacity	19,000 lbs. capacity minimum	_____
12.2	Ratio	For 110 km/hr top speed, state ratio	_____
12.3	Differential lock	Required for rear drive axle w/dash mtd. switch	_____

DETAILED SPECIFICATIONS 06065 – ITEM 4 (continued)

13.0 Front suspension

13.1 Type Taper leaf spring suspension, 10,000 lbs. capacity minimum

14.0 Rear suspension

14.1 Type Air ride suspension, 19,000 lbs. capacity minimum with lateral air bag support beam, state make and model of suspension being bid

14.2 Susp. control valve Manual dump valve for air suspension c/w dash mtd. switch, indicator light, gauge and buzzer

15.0 Rims, wheels, hubs

15.1 Front 22.5 x 8.25 steel disk, 10-bolt, hub piloted

15.2 Rear 22.5 x 8.25 steel disk, 10-bolt, hub piloted

15.3 Hubs Steel or iron hubs, front and rear

15.4 Hub seals Oil lubricated front and rear

15.5 Wheel nut indicators Required on all wheel nuts, front and rear

16.0 Tires, front

16.1 Make & model Michelin XZE or Goodyear G149 RSA, 14-ply, state tires

16.2 Size 11R 22.5

17.0 Tires, rear

17.1 Make & model Michelin XDE M/S or Goodyear G328, 14-ply, state tires

17.2 Size 11R 22.5

18.0 Frame

18.1 Type To match GVWR, 1,000,000 in.-lbs. RBM minimum, outside frame clear

18.2 Application Suitable for use with a 13' x 8' flat deck

18.3 Chassis fasteners Grade-8 threaded hex headed frame fasteners or huck-spin fasteners

18.4 Afterframe As required for 13 ft. flat deck installation, 60 in. minimum, state

19.0 Steering

19.1 Type Power

20.0 Brakes

20.1 Type Hydraulic, ABS, power with optional air supply

20.2 Air drier Wabco System Saver 1200, heated

20.3 Moisture ejector Bendix DV-2, heated, required in wet tank

DETAILED SPECIFICATIONS 06065 – ITEM 4 (continued)

20.4	Drain valves	Manual, chain or cable operated, required on each air tank	_____
21.0	Fuel tank		
21.1	Type	Aluminium, 190 L minimum capacity, fully fuelled upon delivery	_____
21.2	Tank straps	Steel mounting straps with minimum 1/16 in. rubber or neoprene isolators	_____
21.3	Fuel separator	Heated, drainable	_____
22.0	Cab		
22.1	Type	4-door crew cab, aluminum or steel w/corrosion inhibitor	_____
22.2	Hood	Fibreglass tilt	_____
22.3	Cab mounts	Air suspension	_____
22.4	Cab interior/trim	Extreme climate insulation including cloth or vinyl headliner on roof, door panels and rear interior of cab	_____
22.5	Cab silencer package	Required for minimal decibel level	_____
22.6	Hood/Firewall/Engine	Insulated hood liner, engine cover and firewall	_____
22.7	Floor covering	Rubber mat with under-padding	_____
22.8	Floor mats	Two (2), rubber	_____
22.9	Driver's seat	High back, air suspension w/foldable right hand armrest, seat belt, heavy-duty cloth upholstery, Cordura or equal, state material	_____
22.10	Passenger seat	High back, air suspension w/foldable left hand armrest, seat belt, heavy-duty cloth upholstery, Cordura or equal, state material	_____
22.11	Rear seat	Not required	_____
22.12	Sun visors	Dual flip-up type	_____
22.13	Steering wheel	Tilt type	_____
22.14	12-Volt power outlet	Required	_____
22.15	Radio	Factory installed AM/FM	_____
22.16	Starter switch	Key operated c/w three (3) sets of keys	_____
22.17	Interior light	Dome light with driver and passenger door switches	_____
22.18	Heater / Defroster	High output, capable of keeping all windows clear at an outside temperature of -35°F (-37°C)	_____
22.19	Air conditioning	Required	_____
22.20	Brake & accel. pedals	Hanging type brake and accelerator pedals	_____
22.21	Horn	Dual electric	_____

DETAILED SPECIFICATIONS 06065 – ITEM 4 (continued)

22.22	Exterior mirrors	Dual West Coast, stainless steel or polycarbonate, 7" x 14½" min., suitable for 102 in. equipment width	_____
22.23	Convex mirrors	6 in. aux., stainless steel, mtd. below West Coast mirrors, or integral type with polycarbonate mirrors, one (1) per side	_____
22.24	Windows & windshield	Tinted	_____
22.25	Windshield wipers	Electric, intermittent, arctic type blades	_____
22.26	Windshield washers	Electric	_____
22.27	Grab handles	Dual exterior	_____
22.28	Entrance steps	Dual each side, open grate / grip type	_____
22.29	Winter front	Heavy-duty vinyl w/twist lock or snap type fasteners	_____
23.0	Instrumentation		
23.1	Oil pressure	Gauge	_____
23.2	Coolant temperature	Gauge	_____
23.3	Transmission oil temp.	Gauge	_____
23.4	LOP/HWT	Warning light and buzzer	_____
23.5	Voltmeter	Gauge	_____
23.6	Air reservoir pressure	Gauge with LAP warning light and buzzer	_____
23.7	Engine hourmeter	Required, non-resetable type	_____
24.0	Tow hooks		
24.1	Location	Front mounted	_____
25.0	Front bumper		
25.1	Type	Steel, full width	_____
26.0	Colour and Finish		
26.1	Exterior	White	_____
26.2	Interior	Blue or grey	_____
26.3	Frame & suspension	Primed and finished with black Imron 5000 paint or equivalent	_____
26.4	Front bumper	Argent	_____
26.5	Wheels	Powder coated white	_____
27.0	Accessories		
27.1	Flare kit	Three (3) triangular reflectors, CVSA approved	_____
27.2	Fire extinguisher	10 lb. ABC type, required in cab with mounting bracket	_____
28.0	Manuals		
28.1	Operator's manual	Required, one (1) per vehicle	_____

DETAILED SPECIFICATIONS 06065 – ITEM 4 (continued)

29.0 Warranty

29.1	Basic vehicle	Two (2) years, unlimited km	_____
29.2	Batteries	One (1) year or 100 000 km	_____
29.3	Drivetrain	Two (2) years, unlimited km	_____
29.4	Cab structure/corrosion	Five (5) years, unlimited km	_____
29.5	Frame & crossmembers	Five (5) years, unlimited km	_____
29.6	Cab paint	One (1) year or 100 000 km	_____
29.7	Engine	Four (4) years or 320 000 km including engine electronics and injectors	_____
29.8	Towing coverage	Four (4) year or 320 000 km	_____
29.9	Transmission	Two (2) years, unlimited km	_____
29.10	Axles, front & rear	Two (2) years or 240 000 km	_____
29.11	Exhaust System	Four (4) years or 160,000 km	_____

30.0 Delivery

30.1	Delivery point	Equipment shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid to the WFMA 185 Tecumseh Street, Winnipeg, Manitoba	_____
30.2	Delivery time	Within 26 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	_____
30.3	Delivery contact	The Contractor shall contact the Contract Administrator prior to delivery of the equipment	_____
30.4	Vehicle specifics	The Contractor shall fax all vehicle serial numbers, hours/mileage to the Contract Administrator 1-calendar week prior to delivery	_____
30.5	PDI	A pre-delivery inspection shall be performed by the Contractor on all equipment	_____

31.0 Options – ITEM 4a

Note: Options to be priced only as indicated on Form B: Prices.

31.1	Option 2: Cab to axle	144 in. CA in lieu of CA specified in 6.1, 265 in. WB approx., state	_____
31.2	Option 3: LP Tires	Low profile tires, 295/75 22.5 approx., Michelin or Goodyear, similar tread pattern as tires specified in 16.0 and 17.0 above. State make, model and size:	

Front: _____

Rear: _____