

FORM A: BID
(See B8)

1. Contract Title SUPPLY AND DELIVERY OF A RECYCLING TRUCK

2. Bidder

Name of Bidder

Usual Business Name of Bidder as it appears on Invoice (if different from above)

Street

City

Province

Postal Code

Email Address of Bidder

Facsimile Number

(Mailing address if different)

Street or P.O. Box

City

Province

Postal Code

GST Registration Number (if applicable)

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

Email 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/she is in receipt of a notice of award from the Award Authority authorizing the commencement of the Work.

7. Contract The Bidder agrees that the Bid Opportunity in its entirety shall be deemed to be incorporated in and to form a part of this offer notwithstanding that not all parts thereof are necessarily attached to or accompany this Bid.

8. Addenda The Bidder certifies that the following addenda have been received and agrees that they shall be deemed to form a part of the Contract:

No.	_____	Dated	_____
	_____		_____
	_____		_____

9. Time This offer shall be open for acceptance, binding and irrevocable for a period of sixty (60) Calendar Days following the Submission Deadline.

10. Signatures The Bidder or the Bidder's authorized official or officials have signed this _____ day of _____, 20_____.

Signature of Bidder or
Bidder's Authorized Official or Officials

(Print here name and official capacity of individual whose signature appears above)

(Print here name and official capacity of individual whose signature appears above)

FORM B: PRICES
(See B9)

SUPPLY AND DELIVERY OF A RECYCLING TRUCK

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	QUANTITY	UNIT PRICE
1.	Recycling Truck	17021	Each	1	

Name of Bidder

FORM N: (R1) DETAILED SPECIFICATIONS 17021

RECYCLING TRUCK

1.0 DESCRIPTION OF EQUIPMENT AND PERFORMANCE-

- 1.1 These specifications describe the **Supply and Delivery of a Recycling Truck** and other equipment and features as specified herein. This vehicle will operate 7 days a week collecting 3 cubic yard side load recycling bins from 6 City of Winnipeg recycling depots with an average of 2 loads per day delivered to the materials recovery a facility. The primary job function and the percentages of their duties are:
- Traveling between collection sites and unloading location = 67%
 - Collecting material at drop-off depot sites = 25%
 - Unloading material = 8%
- 1.2 The material being transported is Single Stream Recycling Material which consists mainly of paper products, cardboard and empty containers. The majority of the time, this truck will travel on paved surfaces with some uneven surfaces along the way.
- 1.3 The **Recycling Truck** shall be a new 2017 model year or newer.
- 1.4 Shall be capable of consistent top performance for the **Recycling Truck** Application in the City of Winnipeg.
- Bins are located at 7 depot locations.
 - All depots have 15 bins (9 paper / 6 mixed containers)
 - 600 gal or 3 yd. bins.
 - Bins are 600 gallon known as EMCO style in the USA.
- 1.5 The **Recycling Truck** and all other items/components shall be the manufacturer's latest models. The recycling truck shall be furnished complete and ready for operation. Any parts or accessories not specifically mentioned, but which are required to complete and place the recycling truck in successful operation shall be furnished as though specifically mentioned in these specifications. The complete Recycling Truck, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.

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 **Recycling Truck** shall comply with the applicable regulations:
- Highway Traffic Act
 - Manitoba Motor Vehicle Act
 - Canadian Motor Vehicle Safety Standards, CMVSS Transport Canada
 - National Safety Mark, NSM
 - Manitoba/Winnipeg Safety and Health Act, Parts 12, 22
 - Canadian Standards Association, CSA
 - Under Writers of Canada, U/L
 - Society of Automotive Engineers, SAE
 - City of Winnipeg Lighting Visibility
Standard=<http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf>.

- 2.3 It will be the responsibility of the Bidder to inform the City of any deficiencies in these specifications, for under this Contract the Contractor shall be held responsible for the design, performance, reliability and satisfactory operational function of the units.

3.0 SERVICE FACILITY-

- 3.1 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 B11., 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.

4.0 REFERENCES

- 4.1 If available, please provide five (5) Canadian references where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

5.0 MAKE & MODEL

- 5.1 **State** make and model of the **Chassis** and **Recycling body** being bid- _____

6.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

- 6.1 Each bid will be evaluated based on adherence to all terms, conditions and requirements outlined in the Bid Opportunity.

- 6.2 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.

- 6.3 **EACH BIDDER IS REQUIRED TO FILL IN EVERY BLANK. FAILURE TO DO SO MAY BE USED AS A BASIS FOR REJECTION OF BID**

7.0 PERFORMANCE RELIABILITY

- 7.1 The responsibility for the design of the **Recycling Truck**, its performance and reliability shall rest upon the Contractor.

- 7.2 The term "repeated failures" as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the vehicle inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, subassembly, of assembly. Minor items or ordinary service adjustments are not included, or considered under the scope of "repeated failures", as well as other factors, such as operational damage due to accidents, misuse or lack of proper maintenance, service and lubrication attention by not following the manufacturer's preventative maintenance schedule.

- 7.3 Where the **Recycling Truck** develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.

7.4 The equipment shall be capable of consistent top performance in City of Winnipeg Environment.
Note: The City of Winnipeg has four seasons with ambient temperatures ranging from approximately 90°F (32°C) to -40°F (-40°C)

8.0 FUEL

8.1 The **Recycling Truck** must be fully fuelled upon delivery (**no exceptions**).

9.0 QUALIFICATIONS OF MANUFACTURER & CONTRACTOR

9.1 The manufacturer of the **Recycling Truck** shall have five (5) years continuous experience manufacturing **Recycling Trucks**.

9.2 The manufacturer shall have in effect a documented quality control program ensuring that the quality of materials and workmanship, including welding, conforms to the best standards and engineering practice of the industry.

9.3 The Contractor shall have five (5) years continuous experience servicing, repairing and maintaining **Recycling Trucks** of the type being offered.

10.0 CHASSIS SPECIFICATIONS-

GVWR

10.1	Total GVWR	58,000 lbs. As required for 29-30 cubic yard recycling body	_____
10.2	Front GVWR	18,000 lbs. As required for 29-30 cubic yard recycling body	_____
10.3	Rear GVWR	40,000 lbs. As required for 29-30 cubic yard recycling body	_____
10.4	Weigh scale ticket	The Contractor shall provide a certified weigh scale ticket upon delivery of the completed unit. The scale ticket shall include front and rear axle weights including one (1) operator, and all attachments.	_____

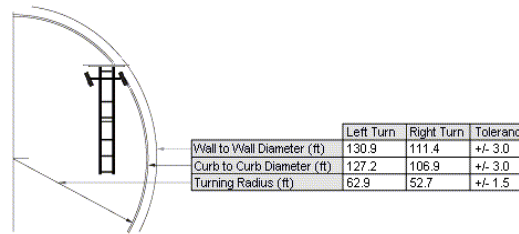
DIMENSIONS

10.5	Cab to Axle-	As required for 29-30 cubic yard recycling body	_____
10.6	Wheelbase-	As required for 29-30 cubic yard recycling body	_____
10.7	After-frame-	As required for 29-30 cubic yard recycling body	_____

TURNING RADIUS

10.8 Turning radius-

Turning Radius- **State** the vehicle turning radius, wall to wall and curb to curb-



- a) Wall to Wall (ft)
- b) Curb to Curb(ft)
- c) Turning Radius (ft)

- 10.9 Engine Tier IV Final Diesel, inline 6-cylinder _____
- 10.10 Horsepower 330-350 HP gross _____
- 10.11 Torque 1000 lbs. ft. torque _____
- 10.12 Engine shut down Low oil pressure / high water temperature _____
- 10.13 Anti-idling programming Programming to be determined upon pre-production meeting. _____
- 10.14 Cold Weather Starting aid Air intake warmer or glow plugs _____
- 10.15 Fuel Shut-off Electric solenoid type _____
- 10.16 Air intake As per refuse recycling application _____
- 10.17 Air cleaner Dry type, suitable recycling application _____
- 10.18 Air intake restriction Dash mounted restriction indicator _____
- 10.19 Oil drain plug Magnetic type _____
- 10.20 Oil filter Full flow, spin-on type _____
- 10.21 Fuel filter Spin-on type _____
- 10.22 Fuel line primer pump Required _____
- 10.23 Block heater Immersion type, 1000 Watt with covered recessed male plug, located under driver's side door _____
- 10.24 Coolant Extended Life coolant, antifreeze to -40°F (-40°C) _____
- 10.25 Coolant filter Required _____
- 10.26 Coolant hoses Premium Silicone type or Gates Blue Stripe _____
- 10.27 Fan Drive Thermostatically controlled, automatic type _____

10.28 Air compressor Water cooled, pressure lubricated, 18 cfm _____

10.29 PTO Provision Front engine PTO with adapter plate. _____

ELECTRICAL

10.30 Electrical Type Point to Point or Multiplex _____

10.31 Electrical connector's Plug-in, sealed type _____

10.32 **Alternator** **160-180 amp Delco Remy with thermal over crank protection** _____

10.33 Starter With over crank protect and thermal protection _____

10.34 Circuit breakers Auto-reset, readily accessible _____

10.35 **Batteries** **Three (3), 12-volt, group 31, 2750 CCA combined** _____

10.36 **Battery Box** **Frame mounted not to impede with body installation** _____

10.37 Battery disconnect In-cab mounted outboard of driver's seat _____

10.38 Battery boost terminal Remote battery boost terminal(s) with cover(s) _____

10.39 Cab marker lights LED located in exterior sun shade, visor or cab roof mounted. _____

10.40 Trailer plug wiring Routed to end of frame plus 3 extra feet of wiring, c/w 6-pole plastic socket. Wiring shall be circuit breaker protected, wired separately from main truck lighting _____

10.41 2-way radio circuit Independent 20 Amp circuit, ignition powered, wired under dash loose, labelled _____

10.42 Accessory switches Three (3) required. All switches complete and wired for body installation, labeled and backlit _____

EXHAUST

10.43 Exhaust Single horizontal, after treatment frame mounted right hand side under cab with vertical tail pipe. Exhaust tip height to be determined upon a Pre-production meeting. Shall not impede with body installation. _____

10.44 Overall exhaust height To clear recycling body _____

10.45 Heat shield Required over exhaust next to cab door _____

TRANSMISSION

10.46 Transmission Allison 3500 RDS with 6-speed programming, Ratio shall be as per inter-city recycling application. Transmission shall come with load base Management Programming. (Bidder must provide an Allison performance SCAAN with the Bid Submission) _____

10.47 Ground speed signal Ground speed signal provision required _____

10.48 Shift selector Digital push-button type, dash mounted _____

10.49 Cooling capacity Water to oil transmission cooler, as per manufacturer's recommendation for severe duty cycle _____

10.50 Oil level dipstick Bayonet type with high and low level markings _____

10.51 Fluid Synthetic _____

10.52 Trans. drain plug Magnetic type _____

FRONT AXLE

10.53 Front Axle Set back axle, Meritor, 18,000 lbs. capacity _____

10.54 Fluid Synthetic fluid _____

REAR AXLE

10.55 Rear Axle Meritor 40,000 lbs. capacity, _____

10.56 Ratio As per in city usage recycling application and for 110 km/hr top speed, **state** ratio- _____

10.57 Inter-axle lock Required w/dash mtd. switch _____

10.58 Differential lock Required for both drive axles w/dash mounted switch _____

10.59 Fluid Synthetic fluid _____

HUBS/ HUB SEALS

10.60 Hub Seals Oil lubricated front and rear type _____

10.61 Hubs Aluminum front & rear hubs _____

FRONT SUSPENSION

10.62 Front Suspension Taper leaf spring suspension 18,000 lbs. capacity _____

REAR SUSPENSION

10.63 Rear Suspension Air ride suspension, 40,000 lbs. capacity, axle Shall be as per recommendation from the body Manufacture for the recycling refuse application _____

10.64 Suspension control valve Manual dump valve for air suspension c/w dash mounted switch, indicator light, gauge and buzzer _____

RIMS, WHEELS

10.65 Front Wheels 22.5 x 12.25 aluminum wheels, aluminum hub _____

10.66 Rear Wheels 22.5 x 8.25 aluminum wheels, aluminum hub _____

TIRES

10.67 Front Tires (Mud & Snow) Front steer tires must be suitable for application and Province of Manitoba weather conditions, **state make & model of tires-** _____

10.68 Front Tire Size 385/65R 22.5, 20-ply rated for requested front GVWR _____

10.69 Rear Tires (Mud & Snow). Rear Drive tires must be suitable for application and Province of Manitoba weather conditions, **state make & model of tires-** _____

10.70 Rear Tire Size 11R 22.5, 16-ply rated for request rear GVWR _____

FRAME

10.71 Frame Single rail. As required for 29-30 cubic yard recycling body _____

10.72 Front Frame Extension Integral type, 20-24 in. and bumper shall be included _____

10.73 Bumper Markers Front mounted bumper markers required. _____

10.74	Bumper Mirror	A mirror on the front bumper pointed down the passenger side for extra vision in the blind spot shall be required	_____
10.75	Application	To be suitable for 29-30 cubic yard recycling body Installation	_____
10.76	Chassis fasteners	Grade-8 threaded hex headed frame fasteners	_____
10.77	After-frame	As required for 29-30 cubic yard recycling body Installation	_____

STEERING

10.78	Steering	Heavy-duty power, synthetic oil preferred, rated for GVWR	_____
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BRAKES

10.79	Brakes	Air, ABS, S-cam drum brakes, front & rear	_____
10.80	Slack adjusters	Meritor (clearance sensing), automatic type	_____
10.81	Parking brake	Spring set, four (4) chamber system	_____
10.82	Brake pots	Vented type	_____
10.83	Dust shields	Required, front and rear	_____
10.84	Moisture ejector	Bendix DV-2, heated to wet tank	_____
10.85	Drain valves	Manual, chain or cable operated, required on each air tank	_____
10.86	Air dryer	Wabco Heated System Save 1200	_____
10.87	Air Tanks	Must be aluminum or Stainless steel or aluminum straps with minimum 1/16 in. rubber or neoprene isolators to prevent galvanic corrosion	_____

FUEL TANK

10.88	Fuel Tank	Dual fuel tanks preferred, maximum manufactures size. Tanks shall not exceed the back of the cab, fully fuelled upon delivery	_____
10.89	Tank straps	Steel straps with 1/16 in. rubber or neoprene isolators to prevent galvanic corrosion	_____
10.90	Fuel Water Separator	Heated, drainable, mounted under hood, located to	_____

CAB

10.91	Cab	Conventional w/corrosion inhibitor	_____
10.92	Cab Construction	Aluminum or galvanized steel construction	_____
10.93	Bumper to Back of Cab	BBC 106-117 in. (excluding front frame rails)	_____
10.94	Cab mounts	Air suspension	_____
10.95	Front grille	Stationary type	_____
10.96	Cab interior / trim	Extreme climate insulation including cloth or vinyl headliner on roof, door panels and rear interior of cab	_____
10.97	Cab silencer package	Required for minimal decibel level	_____
10.98	Hood/Firewall/Engine insulations	Insulated hood liner, engine cover and firewall	_____
10.99	Floor covering	Rubber mat with under-padding	_____
10.100	Floor mats	Two (2), rubber	_____
10.101	Driver's seat	High back, air suspension w/foldable armrests, heavy-duty cloth upholstery, Cordura or equal	_____
10.102	Passenger seat	Stationary passenger seat	_____
10.103	Fresnel Window	Passenger side door	_____
10.104	Sun visors	Dual flip-up type	_____
10.105	Steering wheel	Tilt and telescopic type	_____
10.106	12-Volt power outlet	(2) required with independent circuit	_____
10.107	Radio	Factory installed AM/FM/ with "hand free" Blue Tooth capability	_____
10.108	Starter switch	Key operated c/w three (3) sets of keys	_____
10.109	Interior light	Dome light with driver and passenger door switches	_____
10.110	Heater / Defroster	High output, capable of keeping all windows clear at an outside temperature of (-40°C)	_____
10.111	Air conditioning	Required	_____
10.112	Brake, accelerator, pedals	Floor or hanging type brake and accelerator pedal, state-	_____
10.113	Horn	Dual electric	_____

10.114	Exterior mirrors	Mirrors heated, 4-way motorized adjustment (with convex mirrors), suitable for 102 in. equipment width	_____
10.115	Exterior fender mounted mirrors	Required	_____
10.116	Down-view mirror	Required over passenger door, 5" x 4" approx.	_____
10.117	Windows & windshield	Tinted	_____
10.118	Power windows	Required on driver and passenger side controls for both windows required on driver side	_____
10.119	Windshield wipers	Electric, intermittent	_____
10.120	Wiper blades	Heavy duty snow type with winter type boot	_____
10.121	Windshield washers	Electric, required with spray nozzles on wiper Blades preferred	_____
10.122	Grab handles	Dual exterior	_____
10.123	Door Window	Lower right hand door with Fresnel lens (preferred)	_____
10.124	Entrance steps	Dual each side, open grate / grip type	_____
10.125	Winter front	Heavy-duty vinyl w/twist lock or snap type fasteners	_____
10.126	Exterior Sun Visor	Required	_____
10.127	Fender extensions	Front Fender extensions required	_____
10.128	Dash	Wing type dash for operator convenience preferred	_____
10.129	Back-Up Camera	Required	_____

LIGHTS & MIRRORS

10.130	Fender Mounted Mirrors	Factory installed fender mounted mirrors	_____
10.131	Strobe LED lights	Dual amber LED class I strobe lights with stainless brackets mounted on chassis B-Pillar	_____

INSTRUMENTATION

10.132	Instrumentation	Oil pressure gauge, Coolant temperature gauge, Transmission oil temperature gauge, Voltmeter gauge, Air reservoir pressure gauge with LAP warning light and buzzer, Low Oil Pressure High Water Temperature Warning light and buzzer and non-resettable type Engine hour-meter	_____
10.133	Weigh Scale Systems	Model Air Weigh scale system required for front and rear axles. System must be tested and calibrated prior to delivery.	_____
10.134	Back Up Camera	Required with dash mounted monitor	_____
	<u>TOW HOOKS</u>		
10.135	Tow Hooks	Front and rear mounted	_____
	<u>COLOUR</u>		
10.136	Exterior Colour	White	_____
10.137	Interior Colour	Grey	_____
10.138	Frame & suspension	Primed and finished with black Imron 5000 paint	_____
	<u>ACCESSORIES</u>		
10.139	Flare kit	Three (3) triangular reflectors, CVSA approved	_____
10.140	Fire Extinguisher	5 lbs. Fire Extinguisher ABC type mounted and secured	_____
10.141	First Aid Kit	Required	_____
10.142	Auto Greasing System	Groeneveld single line EP0 Auto-greasing system required (Do not run auto-greaser lines on neither carriage nor the lifting arms. There shall be grease nipples on ALL the slide out rollers)	_____
10.143	Nut Indicators	Wheel nut indicators on all wheel lug nuts required	_____
	<u>BODY SPECIFICATIONS-</u>		
10.144	Body Capacity	Body capacity is 29-30 cubic yards	_____
10.145	Hopper Capacity	8-10 cubic yard useable capacity hopper.	_____
10.146	Operator Controls	Controls to operate the recycling body, shall be located	_____

10.147 Bid Loading



The City of Winnipeg currently utilizes the side-load container system for its recycling operation. The containers have been modified for maximum on-site storage capacity; they are serviced in reverse of their original design. As shown in the attached photos, the high side of the container is the front of the container and is the first side to enter into the truck body. See photos for visual reference.

10.148 Hopper design -

Hopper will have a 12 cubic yard useable capacity. Hopper sides to be a flat design with horizontal channel reinforcing. **State material gauge thickness-**

10.149 Hopper Camera

Camera mounted inside the hopper

10.150 Hopper Floor-

Hopper Floor $\frac{1}{4}$ " 100,000 PSI yield strength abrasion resistant reinforced. **State material gauge thickness-**

10.151 Front Bulkhead-

State complete details of bulk head design-

10.152 Load Discharge

State complete details of load discharge design-

10.153 Body Roof

State complete details of body roof design-

10.154 Body Sides

State complete details of body side design-

10.155 Body Floor

State complete details of body floor design-

10.156 Body Reinforcing

State complete details of body reinforcing design-

10.157 Lift Mechanism

State complete details of their lifting mechanism design-

10.158 Reach & Capacity

48" reach on the bin lifting mechanism

10.159 Rear Door

State dimensions of rear door-

10.160 Packer Ejection Blade

State complete details of their packer ejection blade-

10.161 Hydraulic System **State complete details of their hydraulic system-** _____

10.162 Cycle Times **State complete cycle times-** _____

ELECTRICAL & LIGHTING

10.163 Lighting Standard All vehicle lighting shall conform to C.M.V.S.S. and Manitoba Highway Traffic Act requirements. _____

10.164 Wiring All body supplier installed wiring shall be numbered, colour coded, loomed, properly secured and protected from damage. _____

10.165 Connectors All electrical connectors shall be crimped and soldered, then sealed using heat shrink tubing _____

10.166 Soldering All joining of wires shall be soldered and sealed using heat shrink tubing (crimp on electrical connectors for joining wires are not acceptable). _____

10.167 Wiring Routing All holes required for routing wiring shall be drilled (not punched), grommetted and sealed as required. _____

10.168 Lighting Type All lighting shall be LED Truck Light or Grote _____

10.169 Back Up Work Lights Two (one per side) mid-body backup LED flood lights (both lights equipped with switches for manual operation) _____

10.170 Tool Box 36-48" sealed tool box, **state** location- _____

10.171 Body LED Strobe Lighting Whelen TIR 3 or equivalent Class 1 high lumens LED mini strobe lights mounted in all 4 corners of the body and mid ship for 360 degree visibility (10) in total. _____

10.172	PAINT SPECIFICATION	Preferably Endura Paint Products Blast profile Min 2 Mills Max 3 mills Primer wet film build 6-9 mills wet Topcoat wet film builds 3-5 mills wet, state-	_____
	MISCELLANEOUS		
10.173	Back Up Camera	Required	_____
10.174	Hopper Camera	Second camera mounted inside the hopper required	_____
10.175	Additional Work lights	Driver side mounted high lummnens LED work light and high lummnens LED work light mounted in hopper required	_____
10.176	Rear Work lights	Two mid-body high lummnens LED work light mounted and the rear of the body	_____
10.177	Mounting brackets	Mounting brackets for 1 push broom & 1 grain shovel, state location-	_____
10.178	Safety Decals	"Stay Back" decals for public safety	_____

11.0 WARRANTY

11.1 All warranty information shall be detailed and include all exclusions. The successful bidder shall provide all published warranty information upon delivery of the equipment. Bidder shall state all warranty information. _____

•Basic Vehicle	One (1) year, unlimited km, state-	_____
•Batteries	One (1) year, unlimited km state-	_____
•Drivetrain	Two (2) years, unlimited km state-	_____
•Cab structure/corrosion	Five (5) years, unlimited km state-	_____
•Frame & Cross-members	Five (5) years, unlimited km state-	_____
•Cab paint	One (1) year or 160,000 km state-	_____
•Engine	Three (3) years or 240 000 km state-	_____
•Transmission	Two (2) years, unlimited km state-	_____
•Axles, front & rear-	Two (2) years or 161 000 km state-	_____
•Body Warranty-	One (1) year unlimited km body warranty state-	_____

12.0 DELIVERY

12.1 Delivery Point: The complete unit shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.I.V.S. (if applicable) to the WFMA 185 Tecumseh Street, Winnipeg MB. The successful bidder shall be notified by the Contractor Administrator the delivery address prior to issuance of the purchase order _____

12.2 Delivery Time: **Twenty-Four (24) calendar weeks** from the date of award. Equipment shall be delivered between 8:00 am and 3:00 pm on Business Days. _____

12.3 Delivery Contact: The Contractor shall contact the Contract Administrator prior to delivery of the equipment. _____

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

13.0 MANUALS

13.1 Manuals supplied under this Contract. The manuals shall cover the complete equipment including all components thereof, CD or USB flash drive is preferred where available. _____

13.2 The following manuals shall be supplied with the units when delivered:

a) Operator's manual – Two (2) per unit (one operator manual shall be sent to the Equipment Operator Training Branch _____

b) Parts and service manuals – One (1) complete sets including preventative maintenance schedules. CDs or USB flash drive are preferred. _____

14.0 FIRST SERVICE PREVENTATIVE MAINTENANCE KIT

14.1 In order to assure minimum downtime of the equipment in future service, the Contractor shall provide one (1) complete replacement set of new OEM filters for each unit purchased. The set of required filters shall include (if applicable to the equipment type) air, fuel, oil, cab and hydraulic, or otherwise all known necessary common replacement filters required for the first preventative maintenance servicing. _____

14.2 The Contractor shall provide a list of factory recommended lubricants to be used with the equipment, as well as a complete cross reference guide for all warranty approved lubricants and filters that can be used during preventative maintenance servicing. _____

15.0 DISCOUNT FOR PARTS AND LABOUR

15.1 **State** Parts and Labor discount- _____ %
_____ %

16.0 ERGONOMICS

Entry/ Exit

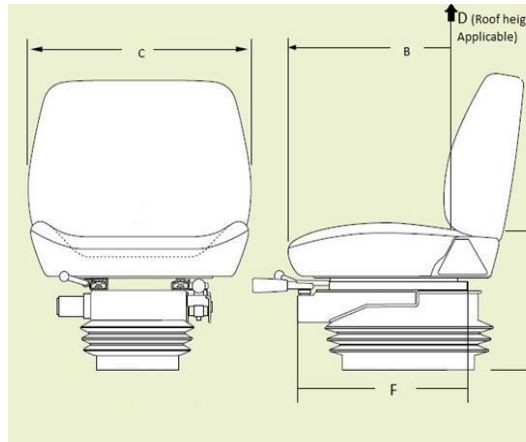
16.1 First step entry height **State**, height of first step in inches _____

16.2 First handhold entry height **State**, first handhold entry height in inches _____

16.3 Access to equipment **State**, door opening height in inches _____

- 16.4 Access to equipment **State**, door opening width in inches _____
- 16.5 Designed to prevent slipping **Anti-slip steps/handholds (Y or N)?** _____

Seat (use below diagram to answer questions)



- 16.6 Sitting height range from floor (where feet rest) (A) **State**, seat height range in inches _____
- 16.7 Seat length/depth (B) **State**, seat length/depth in inches _____
- 16.8 Seat width (C) **State**, seat width in inches _____
- 16.9 Cab height from seat to roof (if applicable) (D) **State**, cab height range in inches _____
- 16.10 Back rest height (E) **State**, back rest height in inches _____
- 16.11 Seat travel range (F) **State**, seat travel in inches _____
- 16.12 Lumbar support **Is lumbar support provided (Y or N)?** _____
- 16.13 Head rest **Is head rest provided (Y or N)?** _____
- 16.14 Seat is made of breathable material **State**, type of seat material _____

Operation

- 16.15 a) Reaching distance to usual work **State**, reaching distance in inches _____
- 16.16 b) Maximum reaching distance **State**, maximum reach distance in inches _____
- 16.17 Adjustable pedals (accelerator/brake/clutch) **Are pedals adjustable (Y or N)?** _____
- 16.18 Adjustable steering wheel **Is steering wheel adjustable (Y or N)?** _____
- 16.19 Adjustable shoulder belt **Is belt adjustable and anchored (Y or N)?** _____

Cargo Area

16.20 Lid opens to provide
adequate space

Adequate space provided **(Y or N)?**

16.21 Loading height

State, trunk height in inches

Environment

16.22 Operator compartment is
insulated from equipment
noise (while operating)

State, dBA inside cab while operating

16.23 Operator insulated from
equipment vibration

Is operator insulated from vibration (Y or
N)?

15.24 Heating/cooling systems

State, cab temperature range

16.25 Cab lighting

State, lumens inside cab

**Maintenance/
Inspection**

16.26 Lift assistance provided
(when necessary)

Is lift assistance provided **(Y or N)?**

16.27 Easy access to
compartment doors

Is easy access provided **(Y or N)?**

16.28 Include any other relevant
ergonomic specifications
and applicable range of
adjustment

