



**THE CORPORATION OF THE
TOWNSHIP OF SOUTH-WEST OXFORD**

Request for Tender

Project No. 2020-03

**TENDER FOR ONE (1) – 2020 56,000 POUND G.V.W. CHASSIS WITH 37 CUBIC YARD
SIDE LOADING REFUSE BODY FOR TWO-STREAM COLLECTION**

INFORMATION FOR BIDDERS

1. The right is reserved to accept or reject all bids or to accept any part of any bid. Lowest or any tender not necessarily accepted.
2. The Administrative Office of the Corporation reserves the right to cancel any order if delivery is not made at specified time.
3. A sealed envelope shall be used when submitting a bid. **A return address, project number, closing date and closing time shall appear on the envelope.**
4. Proposals having any erasures or corrections thereon may be rejected unless explained or noted over the signature of the bidder.
5. Tenders will be publicly advertised on the Townships web site.
6. Quote MUST be bid H.S.T. EXTRA, F.O.B. Works Department, 312917 Dereham Line, Ontario.
7. Bids shall be returned to:

The Corporation of the Township of South-West Oxford
312915 Dereham Line
Mt Elgin, Ontario, N0J-1N0

8. Bids will be received up to and including:

MARCH 27TH 2020 - 10:00 A.M., LOCAL TIME

GENERAL SPECIFICATIONS FOR VEHICLES

1. New vehicles furnished shall be of the current production model. Vehicles shall carry a minimum 12-month total warranty or standard manufacturer's warranty, whichever is greater.
2. The type and minimum G.V.W. shall be as specified. The vehicle shall operate when loaded to its gross vehicle weight without overload or overstress.
3. While the purpose of the specifications is to indicate certain minimum requirements in the way of capacity, strength, construction and other details, it is not intended that this alone shall limit the contract award. Other factors shall be considered, together with any experience the Corporation may have had with equipment of the same type or its manufacture. Delivery date could have a direct bearing on the acceptance of the tender
4. The specifications included herein describe the type, size, design and construction of equipment which is felt necessary to meet the performance and service requirements of the Corporation. Bidders desiring to quote on equipment which deviates from the specifications are requested to submit alternate bids on the equipment which so deviates. Any and all alternate bids which are submitted will be given due consideration.
5. If the new vehicle is not accepted in accordance to specifications or is not delivered according to bidder's scheduled delivery date, the successful bidder will supply the Corporation with a suitable vehicle comparable to the one tendered on for the Corporation's use until the new vehicle is delivered and accepted by the Corporation. At no cost to the municipality
6. All tenders must be accompanied by complete specifications and illustrations of the vehicle tendered on.

TENDER FOR ONE (1) – 2020, 56,000 POUND G.V.W. CHASSIS WITH 37 CUBIC YARD SIDE LOADING REFUSE BODY FOR TWO-STREAM COLLECTION

GENERAL

This specification outlines the requirements for a drop frame side loading mechanical type solid waste collection vehicle with compactor located directly behind the chassis cab, designed to be operated by one man. It shall be a split body for use in a two-stream collection application (paper fibres and containers).

CHASSIS SPECIFICATIONS

State Make Of Chassis	
State Model Of Chassis	
State Make Of Packer Body	
State Model Of Packer Body	

General Description

Chassis: Conventional cab and chassis with cab modified for R.H. stand up drive	Yes [] No []
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For Refuse Application Only

SPECIFY

Maximum wheel base after modifications to be 270”	
CA-203”	
56,000 lb. G.V.W.R. minimum	
Shall have a forward tilting hood	Yes [] No []
Metal front bumper preferred	Yes [] No [] Specify.....

Engine

State Make	
State Model	
Engine to be 6 cylinder diesel – electronic controlled and to conform to all current emission standards, with engine retarder brake, or exhaust brake	Yes [] No [] Specify.....

Minimum engine to be 320 HP, 860 lb/ft – minimum 8.9L	Specify HP @RPM Torque: lb/ft
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Engine cont'd

Engine oil cooler	Yes [] No []
All options necessary shall be included to allow body builder to interface with engine ECM so as to permit packer cycle activation to increase engine rpm to a preset fixed speed	Yes [] No []
Engine oil pressure gauge with warning light & alarm	Yes [] No []
Engine temperature gauge with warning light & alarm	Yes [] No []
Tachometer	Yes [] No []
120V - engine coolant Block heater	Yes [] No [] Specify size.....
Engine hour meter	Yes [] No []

Electrical

12 Volt	Yes [] No []
Batteries - 3 (three) 12 volt maintenance free, minimum 2250 CCA total	Specify:
Alternator - shall be 160 ampere capacity minimum	Specify:
Battery disconnect switch, with lock out tag out capability to be mounted in cab.	Yes [] No []

Cooling System

Pressurized type radiator with surge tank and coolant recovery system (768 sq. in. area) plus air to air cooler	Yes [] No []
Coolant – permanent type - to -40°C	Yes [] No []
All radiator hoses to be silicone type	Yes [] No []

Transmission

Allison RDS3500 six speed automatic (programmed for auto-neutral refuse application)	Yes [] No []
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Push button type gear selector shall be mounted in centre of dash so it is accessible from drivers side and stand up side of truck.	Yes [] No []
Transmission oil temperature gauge	Yes [] No []
Transmission oil filter with replaceable element	Yes [] No []

Transmission cont'd

H-D water to oil trans. cooler	Yes [] No []
Provision for transmission mounted PTO	Yes [] No []
Auto neutral on parking brake	Yes [] No []
All necessary connectors to be provided to allow body builder to interface with transmission TCM	Yes [] No []

Axles

Axles with HD housing equipped with inter-axle differential lock.	Yes [] No []
Front Axle – 16,000 lb.	Yes [] No []
Rear Axle – tandem axle configuration. With 4-way lock capability controlled by toggle switches on dash in cab	Yes [] No []
Drive Axle - 40,000 lb. single speed Ratio to be determined by sales representative to allow for maximum operating efficiency for intended purpose of vehicle. Allison I-scan to be provided by dealer	Yes [] No []
Rear Most Differential – full locking type with dash control	Yes [] No []

Suspension

Front springs capacity, at ground 16,000lbs	Specify:
Heavy duty front and rear shock absorbers	Yes [] No []
46,000 lb. Hendrickson Haul Max suspension 54” spread	Specify:

Steering

Heavy duty hydraulic power steering. With tilt steering wheel	Yes [] No [] Specify.....
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Brakes

Service Brakes - full air brakes shall be supplied S-cam type no wedge brakes	Yes [] No []
Front Brake size 16 ½” x 6” minimum shall be supplied	Specify:
Rear Brake “Q” plus size 16 ½” x 7” minimum shall be supplied	Specify:

Brakes cont’d

Anchorloc parking brake chambers (4) with orange alert	Yes [] No []
Positive - Spring type parking brake with manual release attachments shall be supplied	Yes [] No []
Dual Low air pressure warning light and alarm	Yes [] No []
Haldex Automatic slack adjusters, front and rear	Yes [] No [] Specify.....
Parking brake, control to be located in centre of dash board conveniently accessible for left or right hand operation	Yes [] No []
Automatic drain valves on all air tanks	Yes [] No []
Air dryer AD-9	Yes [] No []
Dust shields on all wheels	Yes [] No []
Brake stroke indicators – front and rear	Yes [] No []
Air Tanks - to be mounted inside frame rails. Minimum Two (2) tanks required – 1 large in front of rear wheels not acceptable	Yes [] No []

Wheels & Tires

Front Rim size shall be 9.0 x 22.5, Rear Rim size shall be 8.25 x 22.5.	Specify:
Front and rear wheels shall be all aluminium ten (10) bolt hub piloted	Specify:
Front tires - (2) Michelin X works 315/80r/22.5 16 ply tubeless radials to comply with 56,000 GVW	Specify:
Rear tires - (8) Michelin X works 11r/22.5 16 ply tubeless radials to comply with 56,000 GVW, traction type	Specify:

One spare rear tire and rim aluminium Michelin X works 11r/22.5 16 ply tubeless radials to comply with 56,000 GVW, traction type	Specify:
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Fuel Tank

60 gallon minimum aluminium fuel tank with aluminium steps and straps to be supplied L.H. under cab.	Specify:
Extra tank straps if fuel tank is underslung type	Specify.....

Lights

All lamps to be weather proof shock free type, recessed mount L.E.D.	Yes [] No []
Additional brake/signal lights to be mounted above rear tail gate	Yes [] No []

Frame Modifications

The chassis frame to be 120,000 PSI straight channel side rail with outer full channel reinforcements	Yes [] No []
The chassis frame shall be under slung to provide low pitch-in height to the compactor hopper	Yes [] No []
The under slung frame shall have a minimum yield strength of 1,000,000 PSI, RBM of 1,200,000 and a section modulus of 23.7	Yes [] No []
C type frame section with the same yield strength as the original frame	Yes [] No []
Frame insert to exceed RBM of original frame by 25%	Specify
Frame connection to be Huck bolted	Yes [] No []
Drive shafts shall be designed or modified to fit wheelbase and shall not exceed the O.E.M. recommended shaft angles for the chassis power train furnished	Yes [] No []

Cab - Conversion is to be Transport Canada approved

Right hand side of cab shall be extended for stand-up drive, heated floor on stand-up side must be included	Yes [] No []
Auxiliary steering wheel driven through a gear box and drive shaft	Yes [] No []
R.H. foot throttle for electronic controlled engine	Yes [] No []

Turn signal switch (column mounted switch both sides) self-cancel on both sides or visible indicator light, gauge cluster with air gauge on both sides with lights in clusters	Yes [] No [] Specify.....
L.H./R.H. foot brake valves. (R.H. brake control and throttle to be recessed into front wall for maximum foot room	Yes [] No []
Work brake. Air toggle switch located on R.H. door post activates front and rear service brakes. Work brake to include “auto-neutral” feature	Yes [] No []
L.H. seat premium, air ride, R.H. stand-up seat	Yes [] No []
Cab entry door on right side to be bi-fold type that can be secured in the open or closed position. stainless steel entry door is preferred. Door safety chain or belt to be installed	Yes [] No [] Specify:
Emergency parking brake (located centre of dash)	Yes [] No []
Two speed windshield wipers with intermittent control to be operated from either side of cab.	Yes [] No []

Cab cont'd

Windshield washer to be operated from both side of cab	Yes [] No []
Electric horn to be operated from both sides of cab	Yes [] No []
Dual air horns that can be operated from both sides of cab	Yes [] No []
Heater and defroster, minimum 2 speed fan, 40,000 BTU minimum	Yes [] No []
Air conditioning	Yes [] No []
Dual sun visors	Yes [] No []
Tinted glass	Yes [] No []
Interior cab lights	Yes [] No []
Right hand side back rest	Yes [] No []
Left side opening window, O.E.M. door	Yes [] No []

Key door locks	Yes [] No []
Two Bus Boy type mirrors located on front of hood to provide lateral vision	Yes [] No []
Left and right side west coast power, heated mirrors shall be supplied with separate 6" convex mounted below, mirror controls to be located at centre of dash	Yes [] No []
Modification work shall not interfere with the operation of the original steering, brake or controls as provided by the chassis manufacturer	Yes [] No []
All controls, gauges and accessories legally required for safe operations of vehicle shall be provided	Yes [] No []
Am/Fm factory radio	Yes [] No []
Ignition switch to be mounted in centre of dash so it can be accessible from both sides of cab	Yes [] No []

Packer Body – Two Stream

Body shall be 100% welded construction of formed steel section.	Yes [] No []
Body Interior shall be smooth and free of all obstructions to allow easy flow of refuse material.	Yes [] No []
A body window minimum 9” x 9” covered with expanded metal shall be provided in the front wall to indicate when body is full	Yes [] No []
The body shall be vertically divided into two (2) compartments. 60/40 split ratio (60% curb side).	Specify
The internal dividing wall shall be constructed of 2.5” formed channels with 12 ga., 80,000 lb yield skin each side.	Specify
<p>FLOOR CONSTRUCTION</p> <ul style="list-style-type: none"> • Front Sloping Floor: 1/4" abrasion resistant AR450 steel • Crossmembers: 3” & 4” structural channels spaced approximately 16” or less • Longitudinal: 5” & 6” structural channel 	<p>Specify:</p> <p>Specify:</p> <p>Specify:</p>
<p>SIDE CONSTRUCTION</p> <ul style="list-style-type: none"> • Side Skin: 11 ga. AR450 steel smooth side 	Specify:
<p>ROOF CONSTRUCTION</p> <ul style="list-style-type: none"> • Roof Skin: 14 ga steel 	Specify:
Body Capacity: 37 cu.yd. minimum	Specify:
<p>BODY DIMENSIONS</p> <ul style="list-style-type: none"> • Inside Body Length: approx. 170” • Outside Body Width: 96” • Inside Body Height: minimum 93” 	<p>Specify:</p> <p>Specify:</p> <p>Specify:</p>

Packer Body cont'd

<p>HOPPER:</p> <p>Floor 5/16" AR450 steel</p> <p>Shell constructed of 1/4" AR450 steel</p> <p>Hopper dimensions shall be a minimum 74" wide inside x 74" long x 18" deep</p>	<p>Specify:</p> <p>Specify:</p> <p>Specify:</p>
<p>PACKING RAM</p> <p>Top and face plate to be 1/4" AR450 steel</p> <p>The hopper shall be divided into two (2) compartments. 60% curb side and 40% street side.</p> <p>The packer divider plate shall be bolted to the ram face and require no pivoting action or special guide system.</p> <p>The divider plate must at no point pass through the hopper floor.</p> <p>There shall be a guide pocket in the interior body wall. The pocket shall be open one side to allow self-cleaning.</p> <p>The packing ram guides shall be rigidly constructed capable of holding packing ram straight when subjected to off-centre packing forces without causing excessive wear to packing ram and hopper.</p>	<p>Specify:</p> <p>Specify:</p> <p>Specify:</p> <p>Specify:</p> <p>Specify:</p> <p>Specify:</p>

Tailgate

<p>Two - 1 piece top hinged hydraulically operated rear door – Bustle Back design</p>	<p>Yes [] No []</p>
<p>Each door shall be operated by one (1) hydraulic cylinder minimum 2-1/2" bore x 1-1/4" chromed rod with velocity fuses to prevent sudden descent</p>	<p>Yes [] No []</p>
<p>Each door to be operated by hydraulic control lever located in cab console (lever to have safety lock to prevent accidental activation)</p>	<p>Yes [] No []</p>
<p>Hydraulic door locks with automatic locking mechanism and safety lock system</p>	<p>Yes [] No []</p>
<p>Door skin material to be 11 gauge minimum</p>	<p>Yes [] No []</p>

Tailgate cont'd

Door frame to be minimum heavy gauge	Yes [] No []
Door top hinges to have grease fittings and be accessible from ground level through remote lines	Yes [] No []
Wet seal	Yes [] No []
Safety props	Yes [] No []

Packer

The packer shall be unitized construction.	Yes [] No []
The distance from the face of the packing ram in the retracted position to the front edge of the body wall shall be 36" minimum	Specify:
The hopper loading height shall be maximum 46" above ground level	Specify:
<p>CANOPY & HOPPER DOORS</p> <p>The hopper loading area shall be enclosed by a canopy and loading doors installed on both sides. Aluminium doors preferred. Doors must be able to be secured in the open or closed positions.</p> <p>Canopy material shall be 14 ga. Steel</p> <p>Door opening shall be large enough to accept loading of roll carts from 32 gallon to 290 gallon</p>	<p>Yes [] No []</p> <p>Specify:</p> <p>Specify:</p> <p>Specify:</p>
<p>PACKING CYLINDERS</p> <p>Shall be two 4.5" minimum double acting cylinders, with 2.5" chromed rod and polyurethane seals</p> <p>Ram cycle time shall be 12-14 seconds</p>	Specify:

Packer Controls

Two complete sets of packer control buttons on the exterior shall be supplied. One on each side of unit	Yes [] No []
Packer controls shall be located on the right- and left-hand side of the compactor. Exterior controls to include: cycle start, reverse cycle and stop with panic bar located below the hopper sill. If activated the panic bar or stop button must be manually reset to permit resumption of operations	Yes [] No []

Packer Controls cont'd

Packer controls in cab shall include cycle start and E-stop. If activated the stop button must be manually reset to permit resumption of operations	Yes [] No []
A crusher panel on both sides of the packer plunger shall be supplied and the controls must be operated from the outside of cab	Yes [] No []
Vertical teeth shall be installed on the face of the packer plunger to reduce material roll out	Yes [] No []
The hopper set shall have a forward, reverse and stop button. Cab shall have a start cycled and "Emergency" stop button which must be manually reset before packer operation can resume	Yes [] No []
Control buttons shall be heavy duty industrial type, weather resistant	Yes [] No []
Hopper control set to be housed in a water tight custom moulded plastic enclosure	Yes [] No []
Control buttons shall be 1 1/2" minimum diameter colour coded (green-start/black-reverse). "E" stop button to be 2-3/4" red	Yes [] No []
Limit switches shall be heavy duty industrial type, water tight, with adjustable arms and over travel to prevent damage to switch	Yes [] No []
An electric lockout shall be provided to prevent operation of the automatic throttle control when the transmission is not in neutral	Yes [] No []
A weather proof box shall be located in the cab to prevent moisture build up and shall contain the electronic packer and terminal strips. The box shall perform as a junction point for all circuits and the panel shall be easily removable	Yes [] No []
Electronic packer control with multi cycle capability	Yes [] No []

Electrical Wiring

All circuits shall be properly fused for wire size and components and no splices or junctions between junction box and components	Yes [] No []
Individual wire shall be identified by colour code	Yes [] No []

Hydraulic System

Transmission driven hydraulic pump	Yes [] No []
Transmission mounted gear pump with Hot-Shift PTO and enclosed shaft extension. Hyd. pump to have over speed control through the Allison PTO enable feature.	Yes [] No []

Hydraulic System cont'd

Reservoir shall be 40 gal IMP equipped with magnetic drain plug. Sight gauge to determine oil level and shut-off valves in suction and return lines. Reservoir mounted above chassis frame behind cab	Yes [] No []
Return line filter to be 10 micron, 100 GPM with a 15 psi by-pass valve	Yes [] No []
Suction line strainer to be 100 mesh 100 GPM rating	Yes [] No []
Hoses shall be routed and properly supported to provide maximum service life	Yes [] No []

Body Hoist

Body shall be raised by multi-stage cylinder(s) mounted outboard or inboard of the chassis frame	Yes [] No [] Specify.....
Body dump angle shall be 48 degrees	Yes [] No []
Body Hoist control valve shall be air over hydraulic located in cab console	Yes [] No []

Safety Prop

Safety props shall be supplied capable of supporting the body in the raise position	Yes [] No []
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Electrical

All stop, directional and clearance lights shall be mounted in accordance with the CMVSS	Yes [] No []
All wiring shall be colour coded and conform to SAE-J1128	Yes [] No []
Packer unit shall be supplied with a back up alarm	Yes [] No []
Mid body marker/ L.E.D. signal lights	Yes [] No []

Paint

Vehicle to be painted. The complete body unit shall be clear of all weld and slag. Undercoat with top coat of IMRON Red or equivalent	Specify:
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Additional Equipment

20 lb. fire extinguisher (location T.B.A.)	Yes [] No []
Flare kit or Triangles	Yes [] No []
Two front tow hooks	Yes [] No []
Two rear tow hooks	Yes [] No []
Four 4" or 7" alternating flashing L.E.D. lights on tailgate with amber lens - two located at two upper corners of tailgate and two mid point of tailgate	Yes [] No []
Back up camera	Yes [] No []
Tailgate open - warning light and exterior and in-cab alarm must be activated by either tailgate if not fully locked	Yes [] No []
Panic bars on R.H. and L.H. hopper sills. If activated panic bars must be manually reset to allow operations to continue	Yes [] No []
Shovel bracket on packer door	Yes [] No []
Hopper shall be equipped with a hydraulically powered deflector to be used by the operator to direct material to the curb side or road side packer compartment. A manual control lever to be located close to the hopper packer controls	Yes [] No []
Interior hopper light	Yes [] No []
Mud flaps - front and rear of front and rear wheels	Yes [] No []
Back up alarm	Yes [] No []

WARRANTY

A warranty certificate shall be attached to the submitted bid.

Warranty clarification on the following components shall be shown.

REFERENCE TO *"SEE ATTACHED CERTIFICATE"* NOT ACCEPTABLE.

Engine:

Transmission:

Drive Train:

Electrical:

Body:

OPTIONS

- a) Rust Inhibitor: please include all literature pertaining to make

State Make: _____ State Price: _____ |

- b) Truck's Service Manual or CD: *to be provided upon Delivery of Vehicle*

State Price: _____ |

- c) Engine Repair Manual or CD: *to be provided upon Delivery of Vehicle*

State Price: _____ |

- d) Electrical Circuit Diagrams & Trouble Shooting Manual or CD:

State Price: _____ |

- e) Parts & Service Manual or CD for the Cab:

State Price: _____ |

- f) Parts & Service Manual or CD for the Chassis (*to include engine & transmission*):

State Price: _____ |

- g) Parts & Service Manual or CD for the Packer & Body

State Price: _____ |

- h) LINE-X applied on underside of packer body.

State Price: _____

OPTIONAL TRADE-IN: The Township may choose, at its sole discretion, to trade in One (1) 2009 Sterling with Fanotech 37 cubic yard Packer in an "as in" condition. The bidder shall state the amount of allowance to be deducted from the Bidder's proposal should this option be selected in Bid Option A.

Arrangements to view this equipment can be made by contacting
Adam Prouse, Works Superintendent, at 519-485-0477 ext. 7060

REFERENCES

List contact people and telephone numbers from four (4), Ontario municipalities which have your unit in use.

1. _____

2. _____

3. _____

4. _____

BID A – INCLUDES TRADE-IN

To Supply and Deliver One, (1),
New 2020, 56,000 Pound G.V.W. Chassis
With 37 Cubic Yard Side Loading
Refuse Body for Two Stream Collection

\$ _____

LESS trade-in (*provisional*)

\$ _____

SUB-TOTAL

\$ _____

HARMONIZED SALES TAX (13%)

\$ _____

TOTAL

\$ _____

PLEASE STATE DELIVERY DATE: _____ WEEKS AFTER RECEIPT OF PURCHASE ORDER.

COMPANY NAME

COMPANY ADDRESS

COMPANY TELEPHONE/FACSIMILE

CONTACT PERSON

AUTHORIZED SIGNATURE

DATE

BID B – NO TRADE-IN

To Supply and Deliver One, (1),
New 2020, 56,000 Pound G.V.W. Chassis
With 37 Cubic Yard Side Loading
Refuse Body for Two Stream Collection

\$ _____

SUB-TOTAL

\$ _____

HARMONIZED SALES TAX (13%)

\$ _____

TOTAL

\$ _____

PLEASE STATE DELIVERY DATE: _____ WEEKS AFTER RECEIPT OF PURCHASE ORDER.

COMPANY NAME

COMPANY ADDRESS

COMPANY TELEPHONE/FACSIMILE

CONTACT PERSON

AUTHORIZED SIGNATURE

DATE