



**TOWN OF STRATFORD  
PURCHASING DEPARTMENT  
STRATFORD, CONNECTICUT**

BID No. 2014-052

Issued : July 25, 2014

Subject : Refuse Collection Chassis

The Town of Stratford through the Office of the Purchasing Agent, will receive SEALED BIDS for furnishing the equipment described in the accompanying specifications, in accordance with the instructions, conditions and reservations that follow:

**A. CLOSING DATE:**

Bids will be received until 11:00 am August 8, 2014, at which time they will be publicly opened and read. All bidders are invited to attend this public opening, which will be held immediately following the closing time specified above, in the Office of the Purchasing Agent, Room 202, Town Hall, 2725 Main Street, Stratford, CT 06615.

Any bid may be withdrawn prior to the above-scheduled time for receiving bids or authorized postponement thereof. Any bids received after the date and time specified shall NOT be considered. No bidder may withdraw a bid within 45 days after the actual opening thereof.

## **B. INSTRUCTIONS:**

Bid proposals are to be submitted (**TWO COPIES**) in a sealed envelope and clearly marked with the bid number and description on the outside of the envelope, including all outer packaging (DHL, FedEx, UPS, etc).

Bids must be delivered to:

Purchasing Department  
Stratford Town Hall – Rm 202  
2725 Main Street  
Stratford, CT 06615

## **C. CONDITIONS:**

### **Bid Surety:**

A bid surety is not required.

**Payment:** Final payment will be made upon the acceptance of the completed work by an authorized representative of the Town of Stratford. NO partial payments will be made. Invoices covering the work specified herein should be forwarded to the Purchasing Department upon completion of the project.

**Taxes:** The Town of Stratford is exempt from all State and Federal taxes. Do not include these amounts in your quotation.

**Addendums:** All addendums will be posted on the town website, [www.townofstratford.com](http://www.townofstratford.com). It is the responsibility of the bidder to check the website for any addendums before submitting their bid.

**F.O.B. Destination:** All prices quoted must be net delivered to destination.

**Conflict of Interest:** No public official or employee shall, while serving as such, have any financial interest or engage in any business, employment, transaction or professional activity or incur any obligation of any nature which is in substantial conflict with the proper discharge of his/her duties or employment in the public interest.

## **D. RESERVATIONS:**

The Town of Stratford may consider informal any bid not prepared and submitted to the Town in accordance with the provisions herein stated. The Town of Stratford reserves the right to reject any or all bids or parts of bids; to waive defects in same bids; or to accept any bid or part thereof deemed to be in the best interests of the Town of Stratford.

Supply detailed descriptions and specifications of all items..

**1. Characteristics**

The truck bid must be of the latest model and satisfactory for Refuse Collection Truck for inner city operation.

**BIDDER MUST MEET OR EXCEED MINIMUM SPECIFICATIONS ANY ITEM LESS THEN MINIMUM IS SUBJECT TO REJECTION.**

	<u>Yes</u>	<u>No</u>	<u>Comments</u>
<b><u>2015 Model Year or Newer</u></b>			
<b><u>A</u></b>			
<b><u>Wheelbase, Cab to Axle Dimensions</u></b>			
Wheelbase shall be approximately 230" and no longer than is needed to accommodate Body specified	_____	_____	
Cab to Axle 160" Useable	_____	_____	
Axle to Frame 62"	_____	_____	
<b><u>B. Chassis</u></b>			
Frame Rails 11.811" x 3.54 x .44 Steel 120,000 PSI	_____	_____	
Section Modulus 32.7cu in/RBM 3,820,000in Per rail. Minimum	_____	_____	
Full 5MM "C" Channel Reinforcement from Front Frame Extension to Rear of Frame.	_____	_____	

**Engine must comply and shall be 2010 EPA certified. Mandated Federal Emission Requirements for EPA 2010 Heavy Duty Emission Standards, must meet the Nox2 limit of 0.2 g/bhp-hr. The use of Selective Catalytic Reduction (SCR) Technology. Particulate Matter .01/-g/bhp-h. (There is No Exception to this item)**

<b><u>C. Engine-Diesel</u></b>			
2010 Federal Emission SCR Technology			
Selective Catalytic Reduction to include Diesel Exhaust Fluid Tank and SCR Catalyst. (No Exception)	_____	_____	
405 peak horse power. 1480 lb.ft. Max torque	_____	_____	
Inline Six (6) Cylinder	_____	_____	
11 liter Minimum	_____	_____	
In Head Fuel Passages	_____	_____	

<b><u>D.</u></b>	<b><u>Engine Components</u></b>	<b><u>Yes</u></b>	<b><u>No</u></b>	<b><u>Comments</u></b>
	High pressure unit injection system	_____	_____	
	2000 bar pressure capability for fuel economy	_____	_____	
	Single overhead Cam with roller followers 4 valve Per cylinder.	_____	_____	
	Hand primer pump	_____	_____	
	Borg Warner On/Off Engine Fan Control	_____	_____	
	Electronic modules to monitor fuel timing, coolant Temperature, coolant level, and oil pressure	_____	_____	
	Single Poly Belt	_____	_____	
	Spin-on Fuel, Water and Dual (Two) Full flow Oil filters	_____	_____	
	In addition to the standard spin-on oil filtration System a lube system with two spin-on full flow			
	Spin-on coolant filter	_____	_____	
	Single variable Geometry Turbo Charger	_____	_____	
	Diesel Particulate Filter vertical right hand side Under passenger side of cab.	_____	_____	
	Exhaust after treatment system diesel particulate Filter ceramic catalyzed	_____	_____	
	DPF regeneration control fully auto in motion Manual stationary, manual inhibit	_____	_____	
	120 Volt Engine Block Heater			
	Under Cab mounted Chrome plug in Cover	_____	_____	
	130 Amp Alternator	_____	_____	
	Batteries (3) 12 Volt M/F 1950 CCA	_____	_____	
	Engine shutdown system shall be compatible with Engine specified with manual override, warning, Lights and buzzer.	_____	_____	
	Engine Brake Compression 400 hp brake power (Exhaust type Engine Brakes will not be accepted)	_____	_____	
	Air cleaner restriction gauge dash mounted	_____	_____	
	Heated Fuel water separator Racor Model 1000FH with Primary and Secondary Water Separators (No Substitutes.)	_____	_____	
	Silicone hoses radiator and heater	_____	_____	
	Maximum available cooling system compatible with engine specified	_____	_____	
	Gear driven air compressor 18.7 cfm	_____	_____	
	-37 Long Life Engine Coolant Protection	_____	_____	
	Electric Pre-heater	_____	_____	
	<u>None of the Control Modules should be mounted On or Under the Cab Floor Board Section.</u>	_____	_____	

<u>Engine Continued:</u>	<u>Yes</u>	<u>No</u>	<u>Comments</u>
Heavy Duty Engine Harness shall consist of a Woven wear resistant wrapping. Electrical Tape wrappings are not going to be accepted.	_____	_____	
Engine shutdown system to reduce power as condition worsens, alerts driver through yellow then red warning lights	_____	_____	
Fuel Heater	_____	_____	
Crankshaft Adapter 1350 Flange Front Mount P.T.O. <u>Transmission Mounted PTO will not be Accepted</u>	_____	_____	
12 Volt Starter	_____	_____	
Two (2) Fuel Injection Event Design	_____	_____	
Cab mounted vertical exhaust	_____	_____	
<b>Body Builder , Engine , ABS or Cab Electronic Modules shall NOT be mounted under the Cab (No Exception)</b>	_____	_____	

**Bidder Specify Engine Make and Model:** \_\_\_\_\_

**E. Transmission and Dive-lines**

Allison 6 Speed Automatic Model 4500RDS	_____	_____
With Direct Mount Transmission Oil Cooler	_____	_____
Transynd Synthetic Fluid	_____	_____
Transmission Temperature Gauge	_____	_____
Drive-line Main 18MXL with coated splines	_____	_____
Transmission Shutdown Sensor for low coolant	_____	_____
Dash Mounted Shifter	_____	_____
Allison Package Refuse Series	_____	_____
Allison Program when Parking brake is applied	_____	_____
Transmission Automatically goes to neutral	_____	_____

**F.**    **Frame Equipment**

Bumper Steel sweptback steel channel	_____	_____
Cross member Steel I Beam behind cab and Intermediate	_____	_____
Cross member –behind rear axle	_____	_____
Towing service hooks front and rear	_____	_____
Fuel Tank LH 88 gallons Aluminum D-shaped w/grated step and 11.8 Gallon DEF Tank <b><u>Minimum</u></b> capacity is 88	_____	_____
Air Tanks mounted between Frame Rails	_____	_____

**Yes**

**No**

**Comments**

**G.**    **Front Axle Equipment**

Front Axle 18,000lbs	_____	_____
Front Springs Multi-leaf 18,000lbs.	_____	_____
Front Shocks	_____	_____
Front Wheels Steel Disc Hayes Lemerz Hub Piloted Five Hand Hole Severe Duty	_____	_____
Front Tires 315/80R22.5 20 Ply BridgestoneM860	_____	_____
Brakes Front Meritor “S” Cam Q- Plus Style 16.5 x 6 With R301 Linings (No Exception)	_____	_____
Hubs Ferrous	_____	_____
Fag Schaeffler Sealed oil seals M/F	_____	_____
Slack Adjusters automatic	_____	_____
Power Steering Sheppard SD110	_____	_____
Brake drums cast outboard mounted	_____	_____

**Rear Axle: Mack 462 or Equal Acceptable Axles: Dana 46590D, Meritor RT-52-380**

**Minimum Requirement.**

Rear Axle 46,000 lbs.	_____	_____
Rear Springs 46,000 lbs. with Anti Sway	_____	_____
Axle Ratio 5.66	_____	_____
Bronze Bushings	_____	_____
Heavy Duty Double Reduction Gearing (No Exception)	_____	_____
Wheels Steel Disc Hayes Lemerz 10-Hole Hub		
Two Hand Hole Hub Piloted Severe Duty	_____	_____
Brakes Meritor Cam "P" Style 16.5 x 7 with R403 Linings (No Exception)	_____	_____
Brake Drums Rear Cast	_____	_____
Dust Shields	_____	_____
Meritor Auto Slack Adjusters	_____	_____
Spring Brake Chambers MGM Model TR-T	_____	_____
Chicago Rawhide Oil Seals	_____	_____
Rear Tires 12:00R22.5 16 Ply Traction	_____	_____
Spring Chambers 30/30	_____	_____
Rear Brake Chambers shall be mounted back of Rear Axle to prevent salt and sand contamination	_____	_____
Transverse Torque Rods	_____	_____

Bidder Specify Rear Axle Make and Model : \_\_\_\_\_

<b><u>I.</u></b>	<b><u>Yes</u></b>	<b><u>No</u></b>	<b><u>Comments</u></b>
<b><u>Air System/Brakes</u></b>			
Air Lines Extruded Nylon Tubing	_____	_____	
Air Brake System Dual	_____	_____	
Bendix AD-9 Heated Air dryer	_____	_____	
Air control valves vendor bendix switches and Valves where possible	_____	_____	
Anti-Lock Brake System without Traction Control	_____	_____	
Automatic Heated drain valves	_____	_____	
Brake control valve system two (2) valve dual			
System Trailer supply and Tractor Trailer Park	_____	_____	
Hand control valve for Trailer.	_____	_____	
Air tanks mounted forward of Fuel Tanks and under batteries.	_____	_____	
Manual Drain Valve with lanyard control mounted On all Tanks	_____	_____	

**Electrical**

Back-up Alarm Constant Audible	_____	_____
Polished Aluminum Battery Box Cover	_____	_____
Electric Circuit protection package all circuits fused and breaker protected	_____	_____
Battery Box left hand frame mounted forward of Fuel Tank under Cab.	_____	_____
<b>Batteries Shall Not to be mounted in Cab or between or under Cab above Frame rails.</b>	_____	_____
Cab Identification Lights LED type	_____	_____
Signal Flasher Transistorized Federal Mogul 250	_____	_____
Body Link with cab floor pass through rubber boot	_____	_____
Electrical connections water proof protective coating	_____	_____

	<b><u>Yes</u></b>	<b><u>No</u></b>	<b><u>Comments</u></b>
<b><u>K. Cab Conventional BBC 116'</u></b>			
Heavy Duty welded Steel Cab (No Aluminum Cabs)	_____	_____	
Arm rest pads driver and passenger doors	_____	_____	
Ash Tray	_____	_____	
Cab mounting dual air bag suspension	_____	_____	
Severe Duty cab mountings and brackets	_____	_____	
Custom interior to include padded doors, headliner and rear panel. (No plastic or paper material type panels )	_____	_____	
Cab to be Factory rust proofed	_____	_____	
Three (3) Overhead storage compartments	_____	_____	
With CB Radio Plate and Connections in Center	_____	_____	
4" Fender Extensions	_____	_____	
Dual Hood Air Intake Brite Finish	_____	_____	
Rear Storage pouch	_____	_____	
Brite Finish Steel Stationary <u>Radiator Mounted</u>	_____	_____	
Front Grill	_____	_____	
Steel Radiator Guard/Hood Must tilt without tilting Grill	_____	_____	
Single Air Horns with Snow cover	_____	_____	
City Horn	_____	_____	
Two speed wipers with intermittent feature	_____	_____	
Factory Installed Two Piece <b><u>Heated</u></b> Windshield to extend from Top corner of cab pillars and run along lower section full length of Windshield and Run up the center of Windshield	_____	_____	

**Cab Continued:**

Cigar Lighter	_____	_____
Fiberglass Hood	_____	_____
Heater and Air conditioner	_____	_____
Tinted Glass	_____	_____
Fold Away Stainless Steel Mirrors Brite Finish		
Heated	_____	_____
AM/FM CD /MP3/Weather Band Hands Free	_____	_____
Infinite adjustable steering column Tilt / Telescopic	_____	_____
Air suspension Drivers Seat Mid- Back	_____	_____
Two Man Passenger Seat Low Back with Integral		
Toolbox (No Exception)	_____	_____
CB Posts	_____	_____
Seat Covering Vinyl	_____	_____
Replaceable Filter Cab Filtration System	_____	_____
Automatic Hood Latch when hood is opened	_____	_____
Rear Window 48"x19" with Passenger Door		
Visibility window 16 3/8 x 9 3/4	_____	_____
5lb. fire ext. and Tri angle kit mounted in cab	_____	_____
Gauge Cluster Exhaust Pyrometer, Transmission		
Gauges, Engine Oil.	_____	_____
(2) 12 Volt Auxiliary Power Outlets Dash Mounted	_____	_____
(4) Four Overhead Dome Lights	_____	_____
Power Window Control RH Side	_____	_____
Sun Visors LH/RH sides	_____	_____
Suspended Brake and Accelerator Pedal	_____	_____
Full Warning Dash Lamp Display System Central		
High mounted LCD. 8 standard gauges and 24		
Indicator lamps	_____	_____
Maintenance due indicator, Engine Hour, Ambient		
Temp. and Sweet Spot indicator.	_____	_____
Factory Plow Light Connectors mounted front of		
Hood with Dash mounted switch	_____	_____
Exterior Sun Visor	_____	_____
Wing Style Dash for gauge accessibility	_____	_____
Internal Adjustable Cab Door Hinges shall not be		
Exposed to the weather	_____	_____
Slate Gray Interior	_____	_____
No Multi Plex Wiring	_____	_____

**L.**    **Paint**

Cab Exterior-Single Color –White	_____	_____
Chassis Running Gear Black	_____	_____
Rims painted White	_____	_____
Frame Rail “C” Channel shall be Factory Undercoated before assembly.	_____	_____

**Auxiliary:**

Parts Book and Service Manual or CD	_____	_____
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**M.**    **Warranty:**

12 Months Towing Chassis Related Failures	_____	_____
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**Transmission:** 5 Years 100% Parts and Labor    \_\_\_\_\_    \_\_\_\_\_

**Engine:** 5 Years/500,000 Miles 100% Parts and Labor

24 Months Towing on Warrantable Engine Failures,  
Block Stiffener, Cam Forging, Camshaft Caps and Bolts,  
Connecting Rod and Cap Forging, Coolant Pump Housing,  
Crankshaft Forging, Cylinder Block Casting, Cylinder Head  
Casting and Bolts, Engine Gears Rear Mounted, Exhaust Manifold  
Casting, Flywheel Housing, Intake Manifold Casting, Main Bearing  
Bolts and Caps, Oil Pump drive and Driven Gears, Thermostat Housing,  
Timing Gear Cover and Mounting Plate    \_\_\_\_\_    \_\_\_\_\_

DPF System Components 24 Months  
DPF/SCR System Components Emission Warranty 60 months  
Road Side Assistance and Towing included    \_\_\_\_\_    \_\_\_\_\_

Cab Structure 24 Months    \_\_\_\_\_    \_\_\_\_\_  
Cab Corrosion 60 Months    \_\_\_\_\_    \_\_\_\_\_

**Rear Axle: 5 Years /500,000 miles to 100% Parts and Labor**

Bearings, Bearing Covers, Bolts and Nuts, Bull Gear,  
Carrier Housing, Mating Gear Set, Thrust Washers,  
Inter-axle Driveshaft, Power Divider and Pinion Housing  
Power Divider Cam, Wedges and Shift Fork, Spacers and  
Shims.    \_\_\_\_\_    \_\_\_\_\_

Yes    No

**Extended Engine Warranty ( Non Deductable) No Engine Hour Limitations**

**Engine: 84 Months /7 Years 500,000 miles 100% parts and Labor**

Air Compressor, Compressor Drive Gear and Mounting  
Bolts. Bearings and all Main Rods, Belt Drive Pulleys,  
At Crankshaft, Belt Drive System Idler Pulley, Belt Tensioners  
Block Heater, Block Plugs, Block Stiffener Plate, Breather Tube  
Camshaft, Camshaft Caps and Bolts, Camshaft Bearings Cap Attachments  
Camshaft Bearing Saddle, Camshaft Bearings, Connecting Rod and Cap  
Screws Forging, Connecting Rod Bushings, Coolant Duct Cover  
Coolant Pump Base Plate, Drive Pulley, Impeller Assembly,  
Coolant Pump Housing, Crankshaft Forging, Crankshaft front  
And Rear Seals, Crankshaft Hub, Cylinder Block Housing, Cylinder  
Head Cap screws, Cylinder Head Castings, Cylinder Head Core Plugs,  
Cylinder Head Gasket, Cylinder Sleeves, EGR Control Valve Heat  
Shield, EGR Cooler Heat Shield, EGR Cooling Mounting Bracket,  
EGR Piping Clamps and Gaskets, Electronic Unit Injectors, Electronic  
Unit O Rings, Electronic Injectors and Nozzles, Electronic Injector  
Sleeves, Engine Brake, Engine front Mounting Bracket, Engine Gears  
Engine lifting Eye Bracket, Engine Rear Mounting Bracket, Exhaust  
Manifold Castings, Exhaust manifold Gaskets, Rings, Studs, Wraps,  
Flex Plate, Flywheel, Flywheel Housing, Fly wheel Ring Gear,  
Fuel Filter Housing, Fuel Pressure Regulator, Fuel Supply Pump,  
Gaskets, Hoses and Fittings, Intake Manifold Gasket, Main  
Bearings and Bolts, Oil Cooler Core and Piping  
Oil cooler housing, oil fill tube, oil filter valve housing, Oil pan,  
Oil Pressure relieve valve, Oil Pump, Oil Pump Drive, Oil Pump  
Pick up tubes, Piston Rings, Liners, Snap Rings, Power steering  
Pump, Pre Heater, Rocker Arm Assembly, Rocker Arm Leaf Springs  
Rocker Arms, Shafts and Attaching Screws, Seals and O Rings, Sensor  
Engine Oil Level, Sensor Engine, Sensor Water in Fuel. Starter, Starter  
Heat Shield, Thermostat Housing, Timing Gear, TURBO CHARGER,  
Turbo Charger and VGT, Turbo Charge Coolant Lines, Turbo Charger  
Oil Drain and Feed, Turbocharger .VGT Actuator Coolant Lines, Valve  
Cover and Valve Heat Shield, Valve Train Components, Valves, springs  
Keepers, Guides, Rotators, Seats, Valve Yokes Bridge and Yoke Pins,  
Vibration Dampener. Exhaust after Treatment to include After Treatment  
Hydrocarbon injectors, shut off valve, air check valve, air solenoid valve  
Atomization Block, Cold Junction Box, Control Module, Diesel Particulate  
Filter, Differential Pressure Sensor Discharge Recirculation Valve, Fuel  
Pump, Ignition Coil, DPF Injectors for FES, Down Stream DPF Temp.  
Sensor, Internal Thermal Regen Temp. Sensor, Post Thermal Regen Temp.

\_\_\_\_\_

Additional Price Optional:\_\_\_\$\_\_\_\_\_

**Continued:**

Sensor, Pre Treatment Sensor, NOX02 Sensor. Emission EGR: Engine Electronic Control Unit, EGR Valve cooler and Mixer, EGR Piping, EGR Wiring, EGR Sensors Air Humidity, air inlet, boost pressure, EGR mass flow, EGR Temp. , Engine speed Crankshaft, Turbo Speed. \_\_\_\_\_

TELEMATICS Gateway Communication Network with Connect Diagnostics Services. Coverage for Two Years. \_\_\_\_\_

Customer Assist Program for Two Years : Network Communication Program to Allow access to Manufacture Updates , and Mechanical Assistance throughout a service Event. Email only communication will not be accepted. \_\_\_\_\_

Misc:

Spare Tire and Rim for Front Axle: \_\_\_\_\_

Two Spare Tires and Rims for Rear Axle: \_\_\_\_\_

**List Exceptions**

**TOWN OF STRATFORD**  
**BID SHEET**  
BID # 2014-052

DESCRIPTION : Refuse Collection Chassis

Price for chassis \$ \_\_\_\_\_

**Attach a detailed list of specifications (including make and model).**

**Bidder shall note in writing any deviations from the bid requirements. Failure to do so may be just cause for rejection of vendor's bid as being nonresponsive.**

Bidder's Name : \_\_\_\_\_

Address : \_\_\_\_\_

\_\_\_\_\_

Phone : \_\_\_\_\_ Date : \_\_\_\_\_

Authorized Signature : \_\_\_\_\_

Print Name: \_\_\_\_\_

Title : \_\_\_\_\_

References (at least three, including contact name and phone) :

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_