



October 5, 2015

ADDENDUM NO. 1 TO ALL BIDDERS:

Invitation to Bid: ITB # 15-11-08A

Description: Crane Carrier LET2 Crew Cab Low Entry 6x4 Refuse Truck Cab and Chassis or Approved Equivalent

Dated: September 24, 2015

For Delivery to: Purchasing Division, City of Roanoke, Virginia

Bid Due: October 19, 2015

1. **REPLACE: OPENING DATE AND TIME, REPLACE:** The open date and time are hereby changed to **October 26, 2015, at 2:00 p.m.**
2. **REVISED: PAGE 1, INVITATION TO BID; SECTION 1. PURPOSE; and SECTION 7. C. GENERAL INSTRUCTIONS TO BIDDERS:** Bidders may submit, for pre-approval, any equivalent product which meets or exceeds the specifications set forth in Section 3. **The last day and time for acceptance of equivalent product specifications is October 12, 2015 at 2:00PM. An addendum listing approved equivalent equipment for which bids will be accepted, or specifying no equivalent will be accepted, will be posted on the City of Roanoke's Vendor Self Service System and the Purchasing Division's web page on October 16, 2015.** Proposed equivalent specifications should be sent to Scott Arbogast, Buyer, by email at scott.arbogast@roanokeva.gov.
3. **CLARIFICATION: SECTION 3, ITEMS REQUIRED:**

Transmission: The City has stated in its specifications that "Force neutral auto neutral system AG function should be provided." AG is an Allison package reference for the Auto Neutral System function that indicates a specific capability of the transmission to have better control of the body arm.

Engine Cooling System: The City has stated in its specifications that "System should have a radiator drain/fill fitting with quick connection." The City has specified a radiator which can be drained/filled through a fitting with a quick connection for efficiency. This can be accomplished through various methods. Bidder may specify the radiator and connection it deems appropriate in accordance with the City Specifications.
4. **REFERENCE: SECTION 3. ITEMS REQUIRED, REPLACE: SECTION 3. ITEMS REQUIRED** of ITB# 15-11-08A is hereby replaced with the attached **Revised SECTION 3.ITEMS REQUIRED.**
5. **REFERENCE: SECTION 7. GENERAL INSTRUCTIONS TO BIDDERS, V., ADD:** General and/or technical questions regarding the Scope of Services and/or items required, or procurement questions under this ITB may be directed to Scott Arbogast, Buyer, (540) 853-1574, or faxed to (540) 853-1513 or by email at scott.arbogast@roanokeva.gov. **All questions must be submitted before 5:00 p.m.,**

October 7, 2015. If necessary, an addendum will be issued and posted to the City Vendor Self Service website at <https://VSS.roanokeva.gov> and to the Current Bids/RFP Requests tab on City website at www.roanokeva.gov/purchasing.

Note: A signed acknowledgment of this addendum should be received at the location indicated on the ITB either prior to the due date and hour or attached to your response. Signature on this addendum does not substitute for your signature on the original bid document. The original bid document must be signed.

Very truly yours,



Scott Arbogast
Buyer
Phone: 540-853-2871

Name of Firm

Signature/Title

Date

**CITY OF ROANOKE, VIRGINIA
INVITATION TO BID NO. 15-11-08A**

REVISED SECTION 3. ITEMS REQUIRED: A description and listing of the services and items that the Successful Bidder will be required to provide to the City under this ITB are those that are set forth below and referred to in any way in any terms and conditions and any attachments referred to in this ITB. Each Bidder should carefully read and review all such documents. Unless otherwise specified, manufacturer's names, trade names, brand names, information and/or catalog numbers listed in a bid form or specification are intended only to impart the quality level desired, not to limit competition.

Bidder shall provide the dealer specifications for the equipment being bid and shall enter response on right clearly indicating where proposed product does NOT meet City Specifications. "Check Marks", "Yes", or "Comply" will NOT be accepted.

Two (2) Crane Carrier LET2 Crew Cab Low Entry 6x4 Refuse Truck Cabs and Chassis, or approved equivalent, with the following specifications:

City Specifications:

Make: Crane Carrier

Model: LET2 Crew Cab Low Entry 6x4

Cab and Chassis

GVWR should be at least 66,000 pounds.

Bidder should state wheelbase of chassis being bid to properly comply with the Labrie Automizer automated side loading refuse body described above.

Bidder shall state CT of Chassis being bid to properly comply with the Labrie Automizer automated side loading refuse body described above. Since the chassis/body matching can be different depending on year and manufacturer being bid, bidder shall ensure that the information being submitted is specified to the year and manufacturer of the engine,

Cab should be a cab forward, low entry type cab with no exterior steps. Door should be a single one piece door with standard size tires on both sides. Should be a right hand, sit down drive with a tilt/telescopic column.

Cab should have long entry assist handles mounted inside can at the "A" pillar post.

Cab should be a hydraulic tilt cab with automatic lock and latch and a 12 volt tilt assist pump.

Dealer Specifications:

Cab and Chassis

City Specifications:

Diesel Engine

Engine should be an in-line six (6) cylinder, turbo charged diesel Cummins ISL 9-380.

Bidder shall state the year of engine manufacture.

Engine should have full flow spin-on type engine mounted oil filter.

A spin-on type coolant filter FEPRO adapter should be included.

A heated fuel/water separator should be included.

A twist and lock type engine oil dipstick should be included and be marked, color coded, and accessible without tilting the cab.

A 5 year/300,000 mile minimum vocational warranty should be provided.

Engine Electronics

Engine RPM control should be included. Remote mounted provisions for wiring shall be provided for body manufacturer's installation of PTO controls with ignition switch controls for electronic engine included.

A variable speed engine throttle should be included.

A key operated engine shut-down should be provided.

An automatic engine protection component with a 30 second warning before shutdown for low engine oil pressure low coolant level, and high coolant temperature should be included.

Cold starting equipment with engine ECM control should be included.

Engine Electronics

Engine block heater with the plug accessible without tilting cab should be provided.

Engine and after-treatment should be provided.

A 5 year/300,000 mile minimum vocational warranty should be provided.

Dealer Specifications:

Diesel Engine

Engine Electronics

Engine Electronics

City Specifications:

Engine Cooling System

Radiator should be a cross flow design with approximately 1,400 square inches.

System should have a radiator drain/fill fitting with quick connection.

Water/antifreeze should be a 50/50 mix to -34 degrees Fahrenheit freeze protection.

System should have a heavy duty welded type air cooler with rubber sealed aluminum core and cast aluminum tank construction.

Radiator hoses should be silicon with stainless steel constant torque hose clamps.

A de-aeration system with surge tank should be provided.

Transmission

Transmission should be an Allison 4500 RDS, with fourth generation control, 6 speed with overdrive on/off highway and oil level sensor PTO provided.

Dual push button style keypad dash mounted shift controls should be included.

Force neutral auto neutral system AG function should be provided.

Oil level sensor should be included.

A twist and lock type transmission oil dipstick should be provided and marked, color coded, and accessible without tilting cab.

Synthetic transmission fluid internal oil filters should be included.

Transmission/engine electronic interface should be provided.

Allison spare input/output for Rugged Duty Series (RDS) should be included.

An Oil pan magnet in transmission oil pan should be provided.

A 5 year/300,000 mile minimum vocational warranty should be provided.

Dealer Specifications:

Engine Cooling System

Transmission

City Specifications:

Axles and Suspensions

Front:

Should be 20,000 pound minimum capacity Meritor MFS-20

Should have a 20,000 pound minimum capacity parabolic taper leaf, front spring with shock absorbers.

Wheel bearing seals with sight glass and synthetic lubricant should be included.

Rear:

Should have a 46,000 pound minimum capacity rear axle, Meritor RT46-160P.

Gear ratio should be 6:14.

Hendrickson HMX460 46,000 pound suspension with shock absorber should be provided.

Synthetic lubricated rear axle should be included.

Double locking rear axles with audible alarm and light indicator should be provided.

5 year/300,000 mile suspension/axle warranty should be provided.

Chassis Brake System

Air brake system with four (4) channel ABS should be provided.

18.7 CFM air compressor with air supply line run from the air cleaner should be included.

Air tanks located inboard frame rails with centralized drain valves should be provided. Accessible central manifold for air tank drainage should be included.

Air pressure gauge with warning lights and audible alarm when pressure drops below 60 PSI should be provided.

16.5" x 7.0" S-cam front brakes with type 30 chamber on axle positions should be included.

16.5" x 8.62" rear brakes with heavy duty spring actuated type 30/30 parking brake chambers on axle positions should be included.

Dealer Specifications:

Axles and Suspensions

Front:

Rear:

Chassis Brake System

City Specifications:

Electrical System

SAE Type II circuit breakers (manual reset) should be provided.

AM/FM CD stereo radio with speaker, weather band and clock should be included.

Two-way radio wiring with 20 Amp fuse protection including ignition wire with 5 Amp fuse, heat shrunk wire ends, and 10' of wire – coiled and taped to base harness should be included.

Federal Signal model #212660-02 LED, permanently mounted amber warning light installed on the roof of cab and activated by a dash mounted switch should be furnished (switch should be accessible from either driver position).

Wiring should be provided for body manufacturer located at rear of cab at left frame to include sealed connectors for tail, amber turn, marker, ABS, accessory power and ground.

Frame and Reinforcements

Frame rails should be heat treated alloy steel 120,000 PSI yield minimum, minimum dimensions 10"x3 1/2"x3/8" steel channel bumper. Two (2) front mounted tow hooks to be located below front bumper should be provided.

Dual Steering Gear

Dual steering should be provided.

Integral hydraulic valve power steering gear with 16" minimum wheel should be provided (both sit down, dual drive, tilt/telescopic column).

Fuel Tank

Tank should be aluminum with a 60 gallon minimum capacity with a quick connect outlet. One (1) drain plug at bottom of tank should be furnished.

Fuel/water separator and fuel filter with filter restriction/change indicator should be included in a single assembly mounted on engine.

Diesel exhaust fluid tank should be sized for stated diesel fuel capacity.

Dealer Specifications:

Electrical System

Frame and Reinforcements

Dual Steering Gear

Fuel Tank

City Specifications:

Exhaust System

System should have single stainless steel vertical catalytic muffler with after treatment device/muffler/tailpipe shield in back of cab.

Tires and Wheels

Front:

Two (2) 315/80 R 22.5 M&s, 20 ply tires M load range should be provided.

Wheels should be front disc 22.5"x9" painted steel 10 stud hub piloted, flanged nut; metric mount painted white.

Front wheel bearing should be EMGard with synthetic oil.

Rear:

Eight (8) – 11R 22.5, M&S 16 ply tires; H load range, tire speed rated for 65 MPH should be provided.

Wheels should be rear disc 22.5"x8.25" painted steel 10 stud hub piloted, flanged nut metric mount painted white.

Spare front tire and wheel should be provided and mounted.

Rear spare tire and wheel should be provided and mounted.

Gauge Package

Odometer display should include miles, trip miles, engine hours, trip hours, and fault code read-out.

Warning system should be provided and include low fuel, low oil pressure, high engine coolant temperature, and low battery voltage. Warnings should be visual and audible.

Low coolant level indicator with audible alarm should be provided.

Cluster gauges should include engine oil pressure (electronic), water temperature (electronic), fuel (electronic), tachometer (electronic), voltage and washer fluid level.

DEF Fluid level gauge/warning should be provided.

Dealer Specifications:

Exhaust System

Tires and Wheels

Front:

Rear:

Gauge Package

City Specifications:

Cab Paint and Finish

DuPont #9 L 3483EB gray with clear coat finish should be provided.

Other Items

Sear Sentry air ride seats with high back and integral headrest should be provided and isolated with two (2) front cushion adjustments; -3 to +14 degree seat back adjustment; air lumbar support, (both sides).

All seatbelts should be red or orange.

Tinted window glass should be provided at all windows.

Heated and power west coast mirrors with two (2) convex mirrors (upper and lower) should be installed on each side.

Air Conditioning, integral, heating/defrost system with three speed blower and re-circulating outlets directed to floor on both sides of cab should be provided. These should not be roof mounted.

Cab rear suspension should be provided.

Clearance/marker lights should be included with amber LED lights flush mounted on cab or sunshade.

One (1) ten pound fire extinguisher and triangle warning kit should be provided.

Detailed cab/chassis specification sheet(s) should be included with bid package.

Software

Current manufacturer DVD software for diagnostic and troubleshooting for engine, transmission, ABS, compatible with the City of Roanoke's existing computer should be provided.

Manuals

Two (2) parts manuals and two (2) service and overhaul manuals should be shipped with primary manuals for chassis. Digital or electronic manuals are acceptable.

Dealer Specifications:

Cab Paint and Finish

Other Items

Software

Manuals

City Specifications:

Warranty

A 24 Month bumper to bumper extended warranty should be included that begins when units are placed into service by the City of Roanoke. Warranty shall include all parts, labor, and freight FOB at dealer location. Any Specific provisions that are part of the manufacturer's standard warranty which exceed the above requirement shall be included in the warranty on the units.

Training

Successful Bidder should provide two (2) hours of training for operation personnel at no additional cost to the City.

Successful Bidder should provide four (4) hours of training for vehicle maintenance technicians at no additional cost to the City.

All training should be conducted at a site specified by the City of Roanoke and may require training for staff on multiple shifts.

Dealer Specifications:

Warranty

Training

Successful Bidder shall provide engineering drawing to ensure proper chassis/body combination with Labrie Automizer 31 Cubic Yard Automated Right Side Refuse Compactor Body.

Successful Bidder shall be responsible for ensuring the proper matching and operation of Labrie Automizer 31 Cubic Yard Right Hand Refuse Bodies with Cab and Chassis.

Successful Bidder shall deliver the cab and chassis to the Labrie manufacturing facility for body installation.

**Labrie Enviroquip Group
175 B, Route du Pont
Saint-Nicolas (Quebec)
G7A 2T3 Canada.
800-463-6638**

Unit to meet ALL Federal, Virginia & OSHA Requirements.

COMPLETED UNIT SHALL BE DELIVERED FROM LABRIE BACK TO SUCCESSFUL BIDDER AND SUCCESSFUL BIDDER SHALL DELIVER COMPLETED UNITS TO THE CITY OF ROANOKE WITH A VALID VIRGINIA STATE INSPECTION.

**City of Roanoke
Fleet Management
1802 Courtland Avenue, NE
Roanoke, Virginia 24012**