



Georgetown County, South Carolina

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ADDENDUM #1 TO BID #16-081

BID NUMBER: 16-081

ISSUE DATE: Friday, August 19, 2016

OPENING DATE: Wednesday, August 31, 2016

OPENING TIME: 2:00 PM (Eastern NIST)

Bid Opening Location: Georgetown County Courthouse, Suite #239, (Purchasing Conference Room)

Pre-Bid Conference/Site Inspection: [none]

PROCUREMENT FOR: Grapple Boom Loader Truck for Solid Waste Collections

Commodity Code(s): 07053

This addendum will amend **BID #16-081, Grapple Boom Loader Truck for Solid Waste Collections** originally issued on Friday, August 12, 2016. This clarification is being provided to all known and registered correspondents in response to questions received. All addenda and original bid documents are also available online at: <http://www.georgetowncountysc.org>, select Quick Links, "Bid Opportunities" and "Current Bids."

Question 1: In all references to the Cummins ISC 12.0L engine, it lists 350 HP and 1000 LF/FT of torque. This would equate to an 8.9 liter engine, which does not exist. Should this actually be the ISX12 or the ISX15?

Response: **Please modify the engine to reflect the Cummins ISL which offers a 380HP / 1250 torque engine.**

Question 2: The Allison 3500RDS automatic transmission specified is limited to 330HP, and will not work with either of the above engines. Should this be the Allison 4500?

Response: **Yes, the specs of the bid would require the 4500RDS transmission.**

Question 3: The rear tires specified are the Goodyear Waste Handler Dura Seal Endurance Tires, but the tread pattern indicated is Michelin. The quantity should be ten, correct?

Response: **The tread pattern maybe verbiage left from previous bid, originally the format did not have tire pattern specifications. Please disregard the tread pattern. Quantity should be 10 including the tag axle.**

Question 4: No PTO type is specified, or a location specified? Most trucks of this use designate the hot shift PTO type off the Allison transmission. Please clarify.

Response: **The PTO type should be a Hot Shift PTO on Allison transmission.**

Question 5: Can you advise the manufacturer of the brush body on the current truck, so I can understand what you expect?

Response: **Currently we have a 45yd Peterson Dump Body.**

NOTE: In light of the changes included above, please use the attached “REVISED” Mandatory Technical Specification Checklist with your bid submittal, in lieu of the one published in the original solicitation.

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Bid #16-081
Grapple Boom Loader Truck for Solid Waste Collections
“REVISED” Mandatory Technical Specification Checklist

NOTE: All bidders shall respond to each category below and check yes if you comply to all items as specified in the text and no if you cannot. Any "no" responses or deviations shall be explained in the space provided.

Chassis Year/Style: 2016 or Newer Commercial Conventional Cab Truck
 Comply? ___ Yes ___ No _____

Air Conditioner: Factory installed integrated A/C, heater, dual defrost, R134a refrigerant.
 Comply? ___ Yes ___ No _____

Alternator: 130 amps or greater.
 Comply? ___ Yes ___ No _____

Axes: Front: 20,000 Lb. minimum, taper leaf springs, and shocks.
 Rear: 46,000 Lb. minimum, helper springs and auxiliary on tandem axle assembly.
 Comply? ___ Yes ___ No _____

Backup Alarm: To be provided and installed, “Brigade White Sound” Electric, and shall be activated when the truck is put into reverse.
 Comply? ___ Yes ___ No _____

Backup Camera: To be provided and installed; activated when the truck is put into reverse. Min. 8” colored monitor viewable from driver’s seat forward position.
 Comply? ___ Yes ___ No _____

Camera: Interior and front facing camera with evident recording capable and GPS. GPS must be capable with Intouch GPS Service provider ; shall be activated upon collision and other predetermined event. GPS must be equipped with PTO engagement feature.
 Comply? ___ Yes ___ No _____

Brakes: 16.5" x 7" rear, 16.5" x 5" front. Full air S-Cam type, ABS, with minimum 13 cubic foot per minute compressor with spring loaded rear wheel parking brakes, and adequate reservoir tank. Emergency equipment shall include low-pressure buzzer and warning lights. Brake system to be equipped with heated air dryer with automatic moisture ejector, or equal.
 Comply? ___ Yes ___ No _____

Engine Brake: Exhaust engine brake.
 Comply? ___ Yes ___ No _____

Bumper: Painted black heavy-duty front with (2) tow hooks mounted to chassis.
 Comply? ___ Yes ___ No _____

Cab to Axle Dimension: Manufacturer’s standard to accommodate body.
 Comply? ___ Yes ___ No _____

Cab: To be equipped with tilt type hood, stationary grille, passenger and driver side grab handles on doors, tinted glass all around, passenger door lower window, door mounted downview mirror, dome light, headliner, dual sun visors, and arm rests.

Comply? ___ Yes ___ No _____

Color: White cab.

Comply? ___ Yes ___ No _____

Electrical: Dual 12-volt top stud batteries, 1800 combined cold cranking amps, frame mounted. A remote positive battery post with cover shall be conveniently located for maintenance personnel. A five-way switch shall be provided for body builder. All wiring on truck and body to be soldered and waterproof sealed or approved equal.

Comply? ___ Yes ___ No _____

Engine: **Cummins ISL diesel, 380HP and 1250 Ft/LB torque, or approved equal.** Low oil and high temperature warning buzzer or bell.

Comply? ___ Yes ___ No _____

Exhaust: Horizontal. Mounted under the frame and extended at least five (5) feet past cab. .

Comply? ___ Yes ___ No _____

Filters: To be equipped with full-flow oil filters, fuel filters, water filters, two-stage dry type air filters with dash mounted restriction gauge.

Comply? ___ Yes ___ No _____

Frame: Heavy-duty full length reinforced at factory, (double frame), extended to end of frame rail.

Comply? ___ Yes ___ No _____

Fuel Tank: Approximately 80 gallons. Step type.

Comply? ___ Yes ___ No _____

DEF Tank: 10 Gallons

Comply? ___ Yes ___ No _____

Gauges: Oil/air pressure, water temperature, fuel, volt, RPM, DEF level.

Comply? ___ Yes ___ No _____

General: To include all standard factory equipment not specifically mentioned as furnished by the manufacturer.

Truck must meet all presently required OSHA/Federal standards.

Comply? ___ Yes ___ No _____

GVWR: Factory plated 74,000 Lbs.

Comply? ___ Yes ___ No _____

Horns: Air and electric.

Comply? ___ Yes ___ No _____

Keys: Three sets required.

Comply? ___ Yes ___ No _____

Lights: Daytime running lights included.

Comply?__ Yes__ No_____

Manuals:

- One (1) complete technical service and repair.
- One (1) complete technical service and repair (digital)
- One (1) complete Cab/Chassis manual.
- One (1) complete Cab/Chassis manual (digital)
- Two (2) complete operator.
- One (1) complete operators (digital)

Comply?__ Yes__ No_____

Mirrors: Heated both sides outside cab and 8" inch convex mirror on each side. Right and Left Mirror shall be 4-way power motorized (MOTO or equal). Dash mounted and labeled switch.

Comply?__ Yes__ No_____

Mud Flaps: Shall be installed by manufacturer or awarded vendor.

Comply?__ Yes__ No_____

Power Take-Off (PTO): Cab and chassis shall provide room for PTO and pump installation. Body builder wiring package to include PTO programming provisions. PTO throttle Advance shall be programmed to 1400 RPM. **PTO Type must be Hot Shift PTO on Allison Transmission.**

Comply?__ Yes__ No_____

Radio: Factory installed AM/FM with Bluetooth connectivity, speakers and clock.

Comply?__ Yes__ No_____

Safety: One (1) 10 Lb. ABC fire extinguisher externally mounted with metal bracket, and One (1) pair DOT triangles. One 18"x18"x 36" (minimum) toolbox.

Comply?__ Yes__ No_____

Seats: Drivers seat shall be air ride, high back, Two- (2) passenger seat shall be standard low back. Medium gray vinyl. Seat belts must be installed on both driver and passenger side.

Comply?__ Yes__ No_____

Signals: Body and cab to have all necessary signals for safe operation, to include turn, brake, back up, and emergency. LED lighting to be provided on all rear taillight areas of vehicle and body front and side clearance/marker lights.

Comply?__ Yes__ No_____

Steering: Power steering. Tilt wheel.

Comply?__ Yes__ No_____

Tires, Monitoring System: Internal tire sensors, on-dash display, low pressure alarm and datalogging feature.

Comply?__ Yes__ No_____

Tires, Front: (2) Goodyear Waste-Handler (high traction) Dura Seal Endurance Tires, 315/80R22.5 tubeless with heavy-duty hub piloted wheels to meet vehicle GVW rating. 8.25" rims.

Comply?__ Yes__ No_____

Tires, Rear: (10) Goodyear Waste-Handler (high traction) Dura Seal Endurance Tires 11 R22.5 ~~XDY2~~ tubeless with heavy-duty hub piloted wheels to meet vehicle GVW rating. 8.25" rims.

Comply?__ Yes__ No_____

Transmission: Allison Automatic Model 4500RDS (minimum) with Hot Shift PTO provision. To be factory filled per transmission manufactures specifications with synthetic fluid.

Comply? ___ Yes ___ No _____

Wipers: Dual two-speed electric, intermittent, with washer.

Comply? ___ Yes ___ No _____

LOADER & BODY SPECIFICATIONS

GENERAL

The loader shall be designed for the collection of white goods, yardwaste and debris materials. Boom must be capable of reaching out 20 feet. To be designed as a one-person operation. The loader assembly is to be mounted at the back of the chassis cab and the front of the dump body. The loader shall lift and load material through the use of main boom, jib boom, extendable tip boom, and rotating trash bucket. The loader shall be stabilized with two (2) four-way adjustable outrigger assemblies. Material will be loaded into the trash dump body, hydraulically and grapple unloaded.

A labeled "Boom Clearance" sensor light in cab shall warn the operator if there is excessive boom height during travel.

Comply? ___ Yes ___ No _____

BUCKET FEATURES

All-purpose 1 yd. or greater clamshell design, minimum 5 feet open width. Replaceable bolt-on bucket blades made of high impact tempered steel. Anti-scalping bucket sides are pivot mounted to provide a horizontal closing action rather than a vertical digging motion. No hoses below bucket rotator.

Comply? ___ Yes ___ No _____

BOOM CONNECTION POINTS

Boom connection points must be equipped with replaceable cast nylon or bronze bushings and a 2 in. bolt with castellated nut to prevent spreading of the connection pivot point.

Comply? ___ Yes ___ No _____

BOOM CONSTRUCTION

Main boom to be comprised of two each 4 in. x 8 in. x 3/8 in. thick high tensile steel tubes connected to each other only at their center line to allow a shock absorbing flexing action of the boom. Main boom hydraulic cylinder must have a minimum of 1200 psi down pressure for compacting loads.

Tip boom to have an extendible/retractable telescopic section controllable from the operator's platform. Must have mechanical stops to prevent cylinder stress. The inner and outer sleeves of the telescopic section must be separated by replaceable cast nylon wear blocks on all sides to prevent metal-to-metal wear. Hydraulic hoses for the telescopic section must be enclosed in steel box for protection. No exposed tip extension hoses shall be permitted.

Comply? ___ Yes ___ No _____

COLOR

Loader to be painted standard color.

Comply? ___ Yes ___ No _____

LIFT CAPACITY

Load radius is measured from the center of boom rotation to the center of the bucket rotation. Capacities shown must not exceed 85% of vehicle tipping moment, with outriggers fully extended on firm, level ground. *Weight of bucket and/or attachments to boom must be subtracted from lift capacities shown.

Boom Radius	Lift Capacity
10 ft.	7,100 lbs.
16 ft.	4,400 lbs.
20 ft.	3,200lbs.

Comply?__ Yes__ No_____

LOADER SYSTEM MANUALS

- One (1) complete technical service and repair.
 - One (1) complete technical service and repair (digital).
 - One (1) complete parts manual.
 - One (1) complete parts manual. (digital)
 - One (1) complete operator.
 - One (1) complete operator (digital).
- Comply?__ Yes__ No_____

PEDESTAL ASSEMBLY

To be an open A-frame type to allow flexing under repeated load shocks. Total height must not to exceed 8 ft. from the mounting plate to the top of pedestal/main boom connection point.

Spindle to be single piece high strength solid steel (ASTM 4140) turning in (ASTM-D4020-81) cast nylon bearings. Welded spindle/head assembly is to be stress relieved prior to installation.

Boom rotation is to be accomplished by a direct drive 270 degree planetary gearbox with radial piston hydraulic motor, with a maximum torque rating of 250,000 in.-lbs. This enclosed gearbox must be 100% oil bath which eliminates the lubrication labor and the metal-to-metal wear. To prevent spindle bending moments from being transmitted to enclosed gearbox, the gearbox must be mounted by means of a torque arm assembly.

Comply?__ Yes__ No_____

STRUCTURAL

A-frame pedestal design allows flexing under repeated load shocks. Replaceable Cast Nylon Bushings used in head assembly. Head assembly is stress relieved. Reinforced connection points with hardened pins and replaceable bushings. Counterbalance valves used on all boom cylinders and pilot operated check valves used on vertical outrigger cylinders.

Comply?__ Yes__ No_____

WARRANTY

Three (3) year major structural, one (1) year hydraulic system, and two (2) years on hydraulic pumps and valve body. Successful bidder shall pay for all transportation costs of warranty parts to and from Georgetown County during the warranty period and any travel time/mileage/labor for maintenance personnel to come on site or pick up/deliver unit. If not repairable in Georgetown County, the successful bidder shall make arrangements for pick up and delivery of entire unit at no cost to the County. A written statement describing the warranty shall be included with the bid.

Comply?__ Yes__ No_____

TRAINING (Operator)

A minimum 6 hours on-site (Georgetown County Environmental Services) routine maintenance and operational training by a factory trained technician.

Comply? Yes No _____

OUTRIGGERS

The loader shall be equipped with 4-way adjustable hydraulic stabilizers. The stabilizers shall have independent controls that allow for intermittent in/out and up/down adjustment. Outriggers are to be controlled in/out and up/down via air over hydraulics with toggle switch controls. Each outrigger to have a LED strobe light installed on top that telescopes with outrigger. Outriggers pad 18" x 18" x 5/8".

Comply? Yes No _____

HYDRAULIC POWER TAKE-OFF

Hot Shift PTO to be directly coupled to the chassis transmission. To include over speed protection – (Audible alarm at 10 mph and PTO shutdown at 15 mph), PTO engagement light mounted on drivers gauge cluster.

Comply? Yes No _____

HYDRAULIC COMPONENTS

Hydraulic tank to be 30 gallon with service cut-off ball valves, sight gauge, recessed 3/8" recessed dipstick, thermometer, spin-on replaceable air filter to be mounted on side of hydraulic tank and include a non-vented filler cap. Control Valve to be stack type with port relief. Counter balance valves to be installed on main boom and tip boom to prevent collapse in case of hydraulic failure. Pump to be a single, direct mount, gear type. Main relief pressure to be set at 1,800 PSI.

Comply? Yes No _____

OPERATOR CONTROLS

Operator station located on a stationary platform above the truck cab with padded seat to provide good visibility of the loading area and of the inside of the dump body. Two mechanical six function joysticks located on either side of the operator seat control loader operation. Outrigger controls are located to the left of the operator seat Body dump controls are located inside the chassis cab.

Comply? Yes No _____

TRASH DUMP BODY

- 22 feet, 45 cubic yard capacity, hydraulic dump body
- 3/16" Hardox JX450 steel plate floor (Brand Name or Equal),
- 8' structural channel with 1/4" plate angled from bottom of 8" channel to bottom of floor plate
- headboard 10 gauge steel continuously welded to the floor, welded to loops on front to hold tools
- 1/8" Body Sides Hardox HX450 steel continuously welded to floor,
- 1/8" Hardox HX450, Barn Door positive locking mechanism on top and bottom, 3 hinges per door
- Underbody work lights
- Electric Self Winding Load Covering Device w/ (6) remotes

Comply? Yes No _____

STROBE LIGHT

LED Strobe light to be wired to a single, in-cab switch.

Comply? Yes No _____

COLOR

Body exterior/interior shall be primed and painted green.

Comply?__ Yes__ No_____

DELIVERY:

Delivery date of complete Truck with Mounted Loader unit to Georgetown County at a agreed upon location shall be provided

Comply?__ Yes__ No_____

NOTE: Georgetown County reserves the right to require bidder(s) to provide a demonstration piece of equipment as described within this text. The demonstration shall provide adequate time span to allow evaluation by the using department and Equipment Services. The equipment demonstration shall be made under actual working conditions using County personnel as operator(s).

Name of Company: _____

Printed Name of person binding bid: _____

Signature: (X)_____

Date:_____

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ADDENDUM ACKNOWLEDGEMENT

Bid #16-081

Grapple Boom Loader Truck for Solid Waste Collections **Mandatory Submittal Form**

To be returned with the final proposal submission to Georgetown County.

COMPANY NAME: _____

- | | | |
|-------------------------------------|----------------------------------|---------------------|
| <input checked="" type="checkbox"/> | Addendum #1 Received Date: _____ | Initialed By: _____ |
| <input type="checkbox"/> | Addendum #2 Received Date: _____ | Initialed By: _____ |
| <input type="checkbox"/> | Addendum #3 Received Date: _____ | Initialed By: _____ |
| <input type="checkbox"/> | Addendum #4 Received Date: _____ | Initialed By: _____ |
| <input type="checkbox"/> | Addendum #5 Received Date: _____ | Initialed By: _____ |
| <input type="checkbox"/> | Addendum #6 Received Date: _____ | Initialed By: _____ |

If your Bid submission has already been mailed, acknowledgment may be provided by faxing this form to (843)545-3500, or attaching a digital scan and sending by e-mail. .

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