

ALLEGAN COUNTY ROAD COMMISSION

SPECIFICATION FOR BIDS

PROPOSAL FOR RDS DUMP BOX BODIES, UNDER BODY SCRAPERS, PLOW WINGS, FABRICATION AND ASSEMBLY OF COUNTY DUMP TRUCKS

(For consideration at 11:00 A.M., E.S.T., Wednesday, October 31, 2018)

Board of County Road Commissioners  
Of the County of Allegan  
1308 Lincoln Road  
Allegan, MI 49010

Good day,

We hereby propose to fabricate and assemble new Dump / Plow Trucks. The units designated herein meet the minimum requirements as listed on the attached sheets.

Bidder to be located within a 50 mile radius from the Allegan County Road Commission. Should radius exceed limit bidder will reimburse the commission for travel mileage (each way .55 per mile) required for inspections (minimum of two per week).

Purpose for Which Trucks Are to Be Used

It is intended that the trucks offered under this proposal will be used as heavy-duty dump trucks for general hauling purposes. In addition, the trucks will be fitted with (hydraulically operated) front snow plow, right side mount wing, tail gate spreader, and underbody scraper attachments. All hydraulic units will be run by a single pump mounted in front of the engine, connected directly to the crankshaft with cab control systems.

Body make \_\_\_\_\_, model \_\_\_\_\_, equipped as specified, F.O.B. Allegan, Michigan, exclusive of Federal and State tax.

Under body scraper make \_\_\_\_\_, model \_\_\_\_\_, equipped as specified, F.O.B. Allegan, Michigan, exclusive of Federal and State tax.

Side wing make \_\_\_\_\_, model \_\_\_\_\_, equipped as specified, F.O.B. Allegan, Michigan, exclusive of Federal and State tax.

Tail gate spreader - Sander make \_\_\_\_\_, model \_\_\_\_\_, equipped as specified, F.O.B. Allegan, Michigan, exclusive of Federal and State tax.

Our total bid price for each dump box body / hoist is \$ \_\_\_\_\_

Our total bid price for each under body scrapers is \$ \_\_\_\_\_

Our total bid price for each side wing assembly is \$ \_\_\_\_\_

Our total bid price for tail gate spreader – sander is \$ \_\_\_\_\_

Finish (including fabrication and installation listed below) price per truck \$ \_\_\_\_\_

Total price for one complete unit is \$ \_\_\_\_\_

Total price for two complete units is \$ \_\_\_\_\_

Total price for three complete units is \$ \_\_\_\_\_

Total price for four complete units is \$ \_\_\_\_\_

NAME OF COMPANY \_\_\_\_\_ SIGNATURE & TITLE \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE NUMBER \_\_\_\_\_

E- MAIL \_\_\_\_\_ MOBILE NUMBER \_\_\_\_\_

DATE \_\_\_\_\_

Payment terms \_\_\_\_\_

We can make delivery in \_\_\_\_\_ days from date of order.

NOTE: \*The price submitted above includes all service, destination and delivery charges and constitutes the complete and total amount of the bid. No other charges will be allowed. \*

The following is a list of minimum acceptable requirements for components that are to be bid under this proposal. All blank spaces listing options or dimensions are to be filled in. If it is impossible to provide certain items that are required, list all exceptions as identified under heading.

COMPONENTS (All parts books are to be furnished)

1. Radius Dump Body (unpainted stainless steel)

- A. 14 foot long, 96 inches wide, 44 inches from floor top (conveyor) to radius sides (continuous).
- B. Front, sides, and tailgate shall be  
¼ inch stainless steel, ¼ inch x 14 foot long sills with 4 inch cross members and a 3 inch channel boxed floor support under the chain and entire understructure of the body
- C. Floor shall be replaceable ¼ inch stainless steel with removal chain guards
- D. Top box rail shall be 3/16 inch formed channel with brackets to accommodate 6 inch side boards
- E. The body front is to have a 45 degree slope and conform with the radius of the body
- F. The front of the body shall be a minimum of 6 inches higher than the sides or to top of internal doghouse
- G. Removable 3/8 inch poly floor pan under conveyor chain
- H. Full length fenders for tandem axle chassis with storage compartments on each side. Compartments shall start at center body support and continue 60 inches to rear of body. Compartments, doors and handles to be stainless construction.
- I. Body to be continuously welded.
- J. Rear ladder to reach top of box (left side).
- K. Holes for three sets of oval lights in each rear post (stop, back up and strobe) and two sets of round marker lights with LED lights installed.
- L. Tie downs, box shall have four 5/8 inch D-Rings welded to a reinforcement plate 3/8 inch x 4 inch x 4 inch welded to the inside of the box, 12 inches from front and rear edges
- M. Four key holes brackets mounted to rear posts
- N. One 5/8 D-Ring mounted to the underside of the left front box with reinforcement plate
- O. Cab shield for tarp, 7 gauge steel construction, 9 inch.

2. Tailgate Assembly

- A. Tailgate to be 6 inches higher than top of side rail (same height as side board brackets mentioned in D above).
- B. Tailgate minimum of ¼ inch stainless steel with 3 inch formed channel perimeter, two horizontal braces the full width of tail gate.
- C. Tailgate shall be double acting.
- D. Material door will extend 16 inches inside the body, door opening will be 21 inches wide by 8 ½ inches high.
- E. Top of tailgate to be heavy duty 1 inch flame cut off set hinges.
- F. Mounted air trip cylinder.
- G. Adjustable over center bottom latches.
- H. 3/8 inch spreader chains, chain hooks welded to a 3/8 x 6 x6 doubler plate welded to the corner post.
- I. One 5/8 D-Ring welded to a reinforcement plate 3/8 x 4 x 4 welded to the top center of tail gate.

4. Hoist
  - A. Front mounted telescopic trunion with nitrated coated double acting cylinder.
  - B. Operation pressure of 2500 PSI.
  - C. Cylinder rod tensile strength of 80,000 lbs.
  - D. Front and rear grease extensions and blocks.
  - E. Equipped with an OSHA approved safety leg for support in the raised position.
  
5. Conveyor assembly
  - A. The conveyor shall have stainless shields, 32 inches wide and have a minimum of 28,000 pound tensile strength per strand, 667XH pintle chain with 1 ½ inch x ½ inch bar flights on every other link and high temperature belt.
  - B. Dual 6:1 gear boxes with 2 inch drive and idler shafts in four bolt flange bearings, eight tooth sprockets and hydraulic motors.
  - C. Body shall be equipped with an air operated series parallel valve.
  - D. Grease extension lines and blocks.
  
6. Tailgate spreader - sander
  - A. Monroe MS969, left discharge 9 inch
  - B. Stainless construction
  - C. Continuous welds
  - D. Poly spinner
  
7. Under body scraper and side wing
  - A. Monroe MS4512 underbody 12 foot snow scraper (specifications below)
  - B. Monroe 9 foot Parallelogram wing assembly with sequencing valve

FABRICATION AND ASSEMBLY (material, parts and labor charges as listed)

1. Fabrication, purchase (if not included above) and / or installation of the following
  - A. Under body scraper assembly (minimum 19" from ground to top of circle)
  - B. Wing assembly
  - C. Tail gate spreader – auger assembly
  - D. Front bumper assembly (including brackets and end caps)
  - E. Kicker legs for front hitch (location must clear steer shock absorbers)
  - F. Husting, 34 inch front hitch assembly (plow mount) two way 3" cylinder and horn
  - G. Relocation of steer shock mounting brackets
  - H. Driver side steps (cab and dump box)
  - I. Box body props and prop stops
  - J. Airlines and air controllers and trip tail gate latch
  - K. Mud flap brackets
  - L. Modification DEF tank cover
  - M. Heavy duty down pressure springs on scraper
  - N. Two chain boxes mounted to front bumper
  - O. Rear tow hooks
  
2. Purchase and installation of hydraulic systems
  - A. Rexloth AA10VS0100 Piston Pump (Rexloth is mandatory) front mount, Spicer drive shaft
  - B. Rexroth 8M4-12 control valve (specifications below)
  - C. 8 section stainless steel enclosure
  - D. Morse/Apsco 5 section air control station (cab driver console style mounting)
  - E. CS430 controller and related wiring
  - F. Monroe (or equal manufacture) combination fuel/hydraulic tank, behind the cab mount (specifications below) with ball valve tank drain located on bottom of drivers side
  - G. Electric solenoid operated low oil shut down
  - H. Plumb hydraulic circuits for scraper, plow, wing, hoist, spreader and steering
  - I. Stainless steel (sch 80) pipe for spreader circuits
  - J. Necessary shut off ball valves
  - K. Mobile CAM-2 ATF used for hydraulic oil
  
3. Installation of dump box body, hoist and tarp assemblies
  - A. Hydraulic hoses to meet or exceed pressure requirements
  - B. Cab shield for tarp, stainless steel
  - C. Tarp assembly, US Tarp 115Z5EZ, four spring external mount with bullet proof gear and switch, steel arms, 7x14 lumite mesh
  - D. Bolt holds for tarp wiring
  - E. Auger pocket mounts
  - F. Conveyor hangers
  - H. Drill holes in side board brackets, 3/8 inch
  - I. Fabricate bracket for tail gate strobe, stainless

4. Electrical

- A. Plow lights complete with turn signals, wired into factory harness and switch
- B. Wing spotlight and strobe
- C. Scraper spotlights (mounted on left step and upper right cab wired to factory switch)
- D. Cab strobe
- F. Back up alarm
- G. Tailgate strobe, stainless mount, green LED
- H. Flaming River shut off switch mounted inside passenger door
- I. Relocate batteries and battery box to right side of chassis
- J. Junction box for wiring
- K. Rear box and wing strobe light green, LED

5. Sand blast and paint with Deflect Exxcential 4.6 epoxy

- A. Front hitch
- B. Bumper
- C. Scraper
- D. Steps
- E. Wing posts

6. Under coat frame and lower steel components

Options to consider:

|       |          |
|-------|----------|
| _____ | \$ _____ |
| _____ | \$ _____ |
| _____ | \$ _____ |
| _____ | \$ _____ |
| _____ | \$ _____ |

Exceptions:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Warranty – Please attach manufacturer’s warranty sheets hereto and are part of this proposal.

A. Body warranty is \_\_\_\_\_

\_\_\_\_\_

B. Hoist warranty is \_\_\_\_\_

\_\_\_\_\_

C. Hydraulic system warranty is \_\_\_\_\_

\_\_\_\_\_

F. Underbody scraper warranty is \_\_\_\_\_

\_\_\_\_\_

G. Wing warranty is \_\_\_\_\_

\_\_\_\_\_

H. Fabrication warranty is \_\_\_\_\_

\_\_\_\_\_

## Component Specifications

### Scraper

- 1 inch solid circle
- 20.5 inch circle clamps with poly shims
- Dual cylinder power reverse with 2inch anchor pins
- 6 inch center swivel bolt
- Heavy duty hangers

### Fuel / Hydraulic tank

- 7 gauge construction
- 21 inches deep, 46 inches wide, 40 inches high
- 120.5 gallon fuel capacity
- 30.1 gallon hydraulic oil capacity
- Two 1 ½ inch ports for steering
- ¾ inch port for drain
- 2 inch supply for main hydraulic pump and return
- Auxiliary return tank
- Sight glass gauge level indicator
- Inline return filter
- Ball valve shut offs
- Low oil sensor

### Rexloth 8M4-12 Valve

- 4 way air operated section with adjustable LS reliefs on A+B ports for hoist with a 34 GPM spool
- 4 way air operated section with adjustable LS reliefs on A+B ports for scraper up/down with 16 GPM spool
- 4 way air operated section with adjustable LS reliefs on A+B ports for scraper wing with 16 GPM spool
- 4 way air operated section with adjustable LS reliefs on A+B ports for plow with 16 GPM spool
- 4 way air operated motor spooled section with adjustable LS reliefs on A+B ports for wing with 19 GPM spool
- 4 way EPC section for spinner rated at 8 GPM
- 3 way EPC section for cross conveyor rated at 15 GPM
- 3 way EPC section for main conveyor rated at 15 GPM
- Color coded air control lines

Existing unit available for inspection or photograph of specific design upon request.

**\*\* The Allegan County Road Commission reserves the right to review all specifications or modifications before final assembly. \*\***