

Kalkaska County Road Commission

1049 Island Lake Road

Kalkaska, MI 49646

Telephone: 231.258.2242

Facsimile: 231.258.8205

The Kalkaska County Road Commission is an Equal Opportunity Provider and Employer

NOTICE TO BIDDERS

Sealed bids will be received until 9:00a.m. Wednesday, February 6, 2019, at which time they will be publicly opened and read. Bids shall be received at the office of the Kalkaska County Road Commission, 1049 Island Lake Road, Kalkaska, MI 49646. The bid shall be clearly marked "Truck Bid" and bear the name of the bidder. Bids will be tabulated and a recommendation will be made to the Board of Road Commissioners at their next regular meeting.

- 1. Two (2) – Tandem Axle Truck Cab and Chassis**
- 2. To supply and install the following equipment on the above referenced unit:**
 - **304 S.S. heavy duty frame mounted material spreader or dump body**
 - **Underbody scraper**
 - **Front mounted plow hitch**
 - **Rear mounted pull hitch**
 - **One – Way Plow**
 - **Nine (9') snow patrol wing/plow**
 - **Hydraulic pump**
 - **Fuel and hydraulic tanks**
 - **Cross-auger with spinner unit**
 - **Lighting**
 - **Associated controls meeting Road Commission specifications**

Bid prices shall include all set up and delivery charges to points designated by the Commission.

Bidders must complete the KCRC checklist.

Further information and specifications may be obtained at the office of the Kalkaska County Road Commission or by contacting Tony Moses at 231.258.2242 (desk), 231-384-3451 (cell) or via e-mail at tmoses@kalkaskaroad.org

David Gill, Chairman
Board of Kalkaska County Road Commission

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SPECIFICATIONS FOR TANDEM AXLE TRUCK CAB AND CHASSIS

The following specifications describe and are intended for use in securing two (2) tandem axle cab and chassis to be used for year-round road maintenance. The bidder shall include all applicable destination charges and shall deliver the equipment described herein to the Kalkaska County Road Commission, 1049 Island Lake Road, Kalkaska, MI or upon written notification to the equipment/body builder of the Kalkaska Road Commission's choosing. A title or manufactures certificate of origin shall be provided at delivery.

Options – New untitled vehicles only meeting or exceeding Kalkaska County Road Commission Specifications.

Delivery – Time of delivery may be an important factor in determining successful bidder. Please state scheduled delivery date.

Payment Terms – Payment for Tandem Axle Truck chassis shall be on the day of delivery after acceptance by the Kalkaska County Road Commission.

Extension – Provided all parties agree, this bid may be extended for up to two (2) years with a 2% variance.

Note – The Kalkaska County Road Commission reserves the right to accept or reject any or all bids, to waive any irregularity or defect in a bid, or to reject that bid which offers equipment not compatible with body builders components, or to accept that bid which is in the opinion of the Kalkaska County Road Commission in the best interest of the county.

Kalkaska County Road Commission

Minimum bid specifications for two (2) new tandem axle trucks.

These vehicles are intended for maximum year-round use. Tasks for these vehicles will range from hauling and applying road maintenance materials, to winter ice and snow control. Units will be equipped with the following hydraulically operated components: Underbody scraper, front mounted one-way plow, 8.5-10 cubic yard heavy duty material spreader, rear mounted cross auger with spinner, mid mounted snow patrol wing.

Trucks will be a 66,000 lb. G.V.W.R. minimum.

Any specification deviations shall be marked as NO with an explanation. We are going to accept a bid on the best truck for our needs. KCRC will consider everything that meets our criteria.

Chassis Warranty - Bidder shall state base warranty and any extended warranty options available, with pricing structure. Bidder shall enable KCRC maintenance department to handle warranty repairs and be reimbursed for warranted time and material, where applicable per a written agreement supplied by the bidder.

Yes _____ No _____ Deviation explained _____

Diagnostic Equipment - Bidder shall supply assistance in obtaining all software and communication equipment needed to communicate with any computer-controlled component on these vehicles. Bidder shall train KCRC employees at our facility to use the new diagnostic equipment. A complete set of service and parts manuals shall also be included in the bid. These manuals may be in paper, or paperless form.

Yes _____ No _____ Deviation explained _____

Item 1. Engine.

- A. Bidders shall specify at least, a 13-liter engine, optimized for performance. A minimum of 425 H.P. and 1650 lb. of torque will be required. Engine shall be equipped with a compression brake. Immersion style 110-120V block heater. Horton two-speed fan clutch with manual override switch, front PTO adapter for 1350 series flange yoke below radiator, silicone radiator, and heater hoses with constant torque clamps, cab heater shut-off valves. Engine shall have high efficiency cooling system filled with extended life coolant. Engines shall be mounted forward of the fire-wall; no doghouses will be accepted; all engines shall be subject to approval from body builder due to component placement.

- B. Engine Warranty.
 - Bidders shall specify base warranty, and all other options for extended warranty coverages with pricing structure.
 - Bidder shall insure in writing; engine warranty repairs can be completed within a 50-mile radius of our facility.

Yes _____ No _____ Deviation explained _____

Item 2. Safety.

- A. An operator, standing flatfooted on the ground shall be able to check all fluid levels.

Yes _____ No _____ Deviation explained _____

Item 3. Transmission.

- A. Allison 4500 RDS-P, Gen 5 Wide ratio 6 speed configuration, Rugged Duty Series. Include Allison Snowplow programming, rear transmission support, TranSynd transmission fluid, and Water/Oil heat exchange. Also, include features that monitor the transmission fluid, filter, and clutch condition on the shift selector. Shift selector shall be tower mounted T-handle type. If possible, a 24” harness extension to shifter shall be included. Bidder shall include warranties and pricing structure.

Yes _____ No _____ Deviation explained _____

Item 4. Rear Axles.

- A. Meritor 46,000 lb. Minimum. No gear ratio will be selected until an engine is specified. All bidders must advise a ratio and supply a speed/torque chart with the bid to insure a properly operating vehicle for our application. Rear axles shall be constructed with heaviest wall thickness available with lube pump, and have inter-axle diff lock, main differential lock in rear axle only, with in cab control and warning light. Piloted iron hubs for use with heavy duty hub piloted wheels, and premium Stemco Grit Guard wheel seals.

Yes _____ No _____ Deviation explained _____

Item 5. Front Axle.

- A. 20,000 lb. minimum set back axle with the shortest turning radius available. Piloted iron oil bath hubs with premium Stemco Grit guard wheel seals. Power steering reservoir shall be frame

mounted. Vehicle shall be mounted with air cooled power steering cooler. Grease fittings required at all pivot points. Power steering shall be Sheppard M100 Dual gear box, with Glidekote splines on steering shaft. Bidder to state wheel cut and curb-to-curb turning radius.

Yes _____ No _____ Deviation explained _____

Item 6. Rear Suspension.

- A. 46,000 minimum. Heavy duty air ride preferably certified for off-road use. Single or dual leveling valve(s), dash mounted pressure gauge, manual dump system with in-cab control and indicator light. Suspension shall be configured with four extra heavy-duty tubular type shocks, and internal bump stops integral with air bags. Air bags shall not occupy any more room rearward than the rear of the drive tire. Examples of acceptable suspensions would be New Way ARD 246-10, or Airtrack 46,000.

Yes _____ No _____ Deviation explained _____

Item 7. Brakes.

- A. Braking system shall consist of a four channel ABS. Front and rear brake shoes shall be S-cam style 16.5” extended service brake shoe, heavy duty, outboard mounted drums. Rockwell/Meritor automatic slack adjusters, premium extended life brake shoe linings with stainless steel dust shields. Air parking brake system to include four (4) 30/30 brake chambers on both drive axles, mounted on gusseted cam brackets.

Yes _____ No _____ Deviation explained _____

Item 8. Front Suspension.

- A. 23,000 lb. minimum. Taper-leaf springs, with heavy duty shocks and mounts.

Yes _____ No _____ Deviation explained _____

Item 9. Driveline.

- A. Main: Spicer SPL250 HD-XL Driveline, 1 Midship Bearing
- B. Inter-axle: Spicer SPL170 Driveline inter-axle

Yes _____ No _____ Deviation explained _____

Item 10. Frame.

- A. Frame to meet following minimum specifications: 1/2 inch frame thickness. 22.35 section modulus, 120,000 psi tensile steel, 2,683,000 resistance bending moment with integral front rail extensions continuing a minimum of 22 inches in front of grill. No Bolt on extensions will be accepted. Huck bolts wherever possible. Frame shall be standard 34 inches in width. Cross members shall be three piece, C-channel with cast gussets. Axle to frame (AF) shall be sixty-five (65) inches minimum. One-hundred and forty (140) inches (CA) cab to axle. Twenty-four (24)

inches ground clearance. Frame to have zero (0) rake. Frame measurements must be verified with body builder. No exceptions.

Yes _____ No _____ Deviation explained _____

Item 11. Air Compressor.

A. Shall have a minimum 25.9 CFM water cooled compressor.

Yes _____ No _____ Deviation explained _____

Item 12. Air Drier.

A. Bidder shall supply a Bendix air drier model AD-IS, extended purge with heater. Air drier shall be mounted in a protected location, on the driver's side of the truck, accessible for maintenance, yet not interfering with equipment.

Yes _____ No _____ Deviation explained _____

Item 13. Air Hose.

A. All chassis air hose to be nylon with a braided harness cover and rubber lined clamps along the frame rails, air compressor discharge hose shall be Teflon lined stainless steel braided hose.

Yes _____ No _____ Deviation explained _____

Item 14. Air Tanks.

A. Air tanks shall be painted steel. All air tanks shall be mounted back of cab on the outside of frame. NOT under cab, as per selected body builder requirements.

Yes _____ No _____ Deviation explained _____

Item 15. Radiator.

A. Radiator shall be constructed from copper or brass with bolt on tanks. NO cutouts or holes for PTO shaft. There shall be adequate clearance under radiator for PTO shaft. Radiator shall meet manufactures cooling system requirements. The radiator, charge air cooler, and everything bolted to it must be substantially mounted.

Yes _____ No _____ Deviation explained _____

Item 16. Air Cleaner.

A. Air cleaner shall be mounted under the hood, with inside/outside air intake system allowing the operator to select air drawn from under the hood or from the driver's side of the cab.

Yes _____ No _____ Deviation explained _____

Item 17. Electrical Features

- A. Four (4) 12-volt 750 CCA batteries, to supply a minimum of 3000 CCA.
- B. Factory installed Flaming River (Model FR1044) ground side master disconnect switch, accessible from the driver’s side of the unit. Switch shall be protected with heat shrink tubing at the terminals. No other cable splices shall be accepted.
- C. Battery cable shall be double-ought (00) or larger.
- D. Alternator shall be pad mount, 160-ampere or larger.
- E. Engine and chassis shall use weather pack connectors, and wires identified numerically and or by color.
- F. Factory installed auto resetting circuit breakers shall be used instead of fuses in chassis junction box.
- G. System shall have a minimum of three (3) auxiliary factory installed toggle switches and circuits with a minimum of 20-ampere capacity for auxiliary equipment. Any extra harnesses or pigtailed required to complete this task shall be included.
- H. System shall have factory installed auxiliary headlight circuit; auxiliary circuit shall operate parking lights, turn signals, high/low beam headlights. This circuit shall allow operator to switch from factory lights to auxiliary lights. Wiring harness shall be securely loomed to the front of the hood on both sides.
- I. System shall have factory installed heated mirror circuit. Switch shall be mounted and identified on dash panel for driver control. Wiring harness shall be securely loomed to the front of the hood on both sides.
- J. Davco 382 Fuel/Water separator, 120V/12V in addition to fuel filter supplied with engine.

Yes _____ No _____ Deviation explained _____

Item 18. Battery Box/Step Combination.

- A. This heavy-duty box shall be mounted on the driver’s side of cab, with a minimum ground clearance of twenty-four (24) inches. Non-slip steps and a barrier liner in the bottom of the box shall be incorporated into its design.

Yes _____ No _____ Deviation explained _____

Item 19. Auxiliary Box/Step Combination.

- A. This heavy-duty box shall be mounted on the passenger’s side of cab, with a minimum ground clearance of twenty-four (24) inches. Unit shall have non-slip steps incorporated into it.

Yes _____ No _____ Deviation explained _____

Item 20. Exhaust System.

- A. The exhaust system shall be a vertical mounted on the right side of the cab outside of the frame rail leaving minimal clearance behind the cab as possible. The muffler(s) shall be mounted with a stainless-steel protective shield and a grab handle. Exhaust system shall maintain a minimum of twenty-four (24) inches of ground clearance. Three inches of clearance shall be maintained between exhaust pipes and frame rails. Exhaust shall not interfere with back of cab mounted fuel and hydraulic tanks.

Yes _____ No _____ Deviation explained _____

Item 21. Scraper Mounting Clearance.

- A. Between the rear edge of the front fender and to the forward side of front drive tire, there shall be a minimum of twenty-four (24) inches of ground clearance at maximum G.V.W.R. Driveline, center bearing, and all tanks shall meet the twenty-four (24) inches of ground clearance minimum.

Yes _____ No _____ Deviation explained _____

Item 22. Tires and Wheels.

- A. **Front:** 385/65R/22.5 18 ply Bridgestone M854 Mud and Snow tires mounted on Aluminum 22.5 X 12.25 10-Hole extra heavy-duty Alcoa (PN# 823627) pilot mounted style rim, with best suited offset for maximum turning radius.
- B. **Rear:** 11R 22.5 M799 Mud and Snow tires mounted on 22.5 X 8.25 extra heavy duty, two hand holes, painted steel, hub piloted rims.

Yes _____ No _____ Deviation explained _____

Item 23. Cab.

- A. A full-sized severe duty conventional day cab made of aluminum or galvanized steel, with dual air bag suspension, leveling valve, and tracking rod.

Yes _____ No _____ Deviation explained _____

Item 24. Cab features.

- A. Standard hood with reinforced upper corners at the grill opening.
- B. Full tilt hood with spring assist, and safety device to guard accidental closure.
- C. Stationary, rigid mounted, stainless steel grill allowing hood to clear thirty-four (34) inch wide plow frame when opened.
- D. Mustache style bug deflector with stainless mounting brackets.
- E. Stainless steel sun visor.

- F. Oversized back of cab window, and cab corner windows
- G. Dual door stop in doors.
- H. Tilt / Telescopic steering column with eighteen (18) inch steering wheel.
- I. Ignition and doors shall be keyed alike, both units keyed the same.
- J. Driver's seat shall be a premium high back fabric with air ride, adjustable lumbar supports, right and left side arm rest, seat shroud, and a three (3) point seat belt. Seat should be of the highest quality and well designed.
- K. Passengers seat shall be a high back fabric, rigid mounted on toolbox, with a three (3) point seatbelt.
- L. Charcoal or gray interior with black rubber floor mat, with removable black floor mats fitted for the cab.
- M. Tinted safety glass.
- N. Interior noise reduction package.
- O. Severe service cab package.
- P. Thermal insulation cab package.
- Q. Drivers door armrest.
- R. Dual west coast style 16 X 7 heated stainless-steel mirrors with integral lights and in cab control.
- S. Dual eight (8) inch heated center mounted convex spot mirrors mounted below west coast style mirrors, with in-cab control. Shall be factory installed.
- T. Electric windshield washer/wipers with delay.
- U. Cab grab handles on both sides of cab.
- V. Heavy duty filtered air flow heater/defroster with air conditioning, with protective scoop mounted on outside air intake.
- W. Dual air horns with covers, and electric horn.
- X. Cab entry steps on both sides shall be made of non-slip material.
- Y. Electric power windows for drivers and passenger's sides of vehicle, both windows shall have the ability to be controlled by the operator.
- Z. Premium am/fm stereo with weather band.
- AA. Dome and map lights.

BB. Cruise control with PTO control integrated with engine.

CC. Four (4) switch control panel to operate on/off of the engine brakes three stages. Shall be factory installed.

DD. A minimum of 3 toggle switches shall be factory installed in the dash panel board for auxiliary equipment. (see item #17)

EE. A minimum of 2 air toggle switches plumbed in with pressure protection for auxiliary equipment. Shall be factory installed.

FF. A full gauge set shall be installed by the factory including the following items: Electric speedometer, tachometer, oil pressure, coolant temperature, volt meter, hour meter, fuel gauge, outside temperature, mechanical dual air pressure, air cleaner restriction, low air, rear suspension load gauge, and related audible alarms.

GG. Factory installed auxiliary speedometer output.

Yes _____ No _____ Deviation explained _____

Item 25. Paint.

A. Premium single stage paint, color as follows: Rear wheels shall be white. Frame and chassis shall be black. Cab and hood shall be painted Omaha orange. Top of hood shall be painted flat black. All colors shall be factory installed with the exception of the top of the hood. Bidders shall choose the most cost-effective route to have top of hood painted in flat black. Bidders shall supply paint codes on bid proposal.

Yes _____ No _____ Deviation explained _____

Item 26. Fuel system

A. Fuel tank on vehicle shall be mounted behind the cab once body builder has completed, any provisions that need to be made shall be. DEF tank shall be small in size, and mounted as high, and far back on the chassis as possible. Bidder and Body builder shall be responsible for the return of "transport fuel tanks".

Yes _____ No _____ Deviation explained _____

NOTES:

Both of these units shall be procured for a live bottom material spreader. There is no need for trailer air or lighting to rear of truck. One dash valve only.

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Two (2) – Tandem Axle Truck Cab and Chassis Bid Sheet 2019

Tandem Axle Truck Cab and Chassis as per specifications:

Manufacturer _____

Model _____

Model Year _____

Delivery Date _____

Unit Price _____

State the Warranties and Guarantee to be furnished by the supplier and/or manufacturer:

State the Terms of the sale and discounts:

Bid prices shall include all set up and delivery charges to points designated by the Commission. Additional fuel surcharges, set up or delivery charges will not be accepted. Payment for units shall be made on the day of delivery after acceptance by the Kalkaska County Road Commission.

Name: _____

Title: _____

Company: _____

Address: _____

Phone: _____

Fax: _____

Signature: _____

Date: _____

Deviations: (three per page):

Item # _____

Deviation:

Item # _____

Deviation:

Item # _____

Deviation:
