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11/20/2023

INVITATION TO BID

The Emmet County Road Commission will receive sealed bids until 09:00 a.m., Wednesday, December 20, 2023, at which time they will be publicly opened and read aloud at their offices located at 2265 E. Hathaway Road, Harbor Springs, Michigan 49740, for:

Six (6): 66,000 G.V.W.R. Diesel-Powered Tandem Truck

Bids shall be on forms furnished by the Road Commission and shall be submitted in a sealed envelope clearly marked as to its contents. Specifications and bid form can be found online at www.emmetcrc.org or by contacting the Road Commission at (231) 347-8142.

The right is reserved to reject any and or all bids, to waive irregularities in the bid procedure and to award bids in the best interest of the Emmet County Road Commission.

EMMET COUNTY ROAD COMMISSION

Frank Zulski, Jr. – Chairman
Wade Williams – Vice Chairman
Mark W. Hoffman – Member

Due 9:00 a.m., Wednesday, December 20, 2023, to:

Emmet County Road Commission
2265 E. Hathaway Road
Harbor Springs, Michigan

Proposal for six (6): **66,000 G.V.W.R. Diesel-Powered Tandem Truck**

We agree to furnish the Emmet County Road Commission the following:

Year _____ Make _____ Model _____ ,
Year _____ Make _____ Model _____ ,
Year _____ Make _____ Model _____ ,
Year _____ Make _____ Model _____ ,
Year _____ Make _____ Model _____ ,
Year _____ Make _____ Model _____ ,

which will meet the minimum requirements on the attached specification sheet unless otherwise noted. Exceptions to any of the specifications attached should be clearly noted/highlighted by the bidder and submitted with this proposal.

F.O.B Conway Garage, 2265 E. Hathaway Rd, Harbor Springs, MI 49740.

Price (tax exempt) for one \$ _____

Price (tax exempt) for one \$ _____

Price (tax exempt) for one \$ _____

Price (tax exempt) for one \$ _____

Price (tax exempt) for one \$ _____

Price (tax exempt) for one \$ _____

Total price (tax exempt) for (6) six \$ _____

Terms _____

Delivery in _____ days after award of bid

Business name: _____

Business address: _____

Business phone: _____

Mobile phone: _____

E-mail address: _____

Print name & title: _____

Signature: _____

Date: _____

EMMET COUNTY ROAD COMMISSION

MINIMUM SPECIFICATIONS FOR:

Six (6)-66,000 G.V.W.R. Diesel-Powered Tandem Truck

GENERAL

The following specifications describe the minimum requirements for a tandem truck of the current model year. Exceptions to any specifications listed shall be noted and highlighted by the bidder. Bids not submitted on these forms will not be considered. The Board reserves the right to waive irregularities in the bid procedure, to accept or reject any and or all bids, and to award the bid in the best interest of the Emmet County Road Commission.

Four (4)- 47X Western Star Trucks (or equivalent) will be as follows:

G.V.W.R.

66,000 lbs.

comply yes ___ no ___

WHEELBASE

185.0" w/set Forward front axle

comply yes ___ no ___

CAB TO TRUNION

122.0"

comply yes ___ no ___

ENGINE

Diesel {Cummins X12, 500 HP @ 1900 RPM, 1850 LB-FT @ 950 RPM}

or equivalent, with engine compression brake (Jacobs Model), with cartridge filters to include oil, coolant, air & fuel filters. Air filters shall be dry-type dual element. The air filter enclosure shall have integral snow valve within cab control, (inside/outside style) and dash mounted.

Air restriction gauge, capable of providing clean dry air under all-season conditions.

Note: primary fuel assembly will be a combination heater/water separator with ejector valve mounted on firewall under hood. Davco Fuel Pro, primary fuel filter assembly preferred.

The engine shall have a 1350 adapter plate to accommodate a front-mounted hydraulic pump.

comply yes ___ no ___

TRANSMISSION

Eaton/Fuller RTLO 16913A 13 SPEED Manual; speed w/double OD

Air shift, and internal lube pump & oil cooler.

With cast iron clutch housing. *

Transmission and rear axle geared not to exceed 75 mph.

Computer printout of drive train showing ground speed and torque in all gears at specified engine RPM.

*Ratio to be 4.30

comply yes ___ no ___

COOLING SYSTEM

Heavy-duty aluminum cross flow radiator with petcock-type drain. (1,400 square inch minimum)

Radiator to be mounted above front-mounted hydraulic pump shaft.

Air operated fan drive with automatic on/off- type control

comply yes ___ no ___

FRONT AXLE

comply yes ___ no ___

Drop I-beam type [20,000 lbs. min] with 23,000 lb. multi-leaf springs with torque rods and shock absorbers. (Meritor FL-941) or (Deit DA-F-20.0-5) (Set back axle)

REAR AXLE

comply yes ___ no ___

Tandem dual drive Meritor RT-46-164p, 46,000 lb. min. capacity with lube oil pump and spin-on oil filter. Shall have driver-controlled traction differentials in forward rear and rear-rear axle with independent dash-mounted control switches. To include driver controlled inter-axle lock.

DRIVELINE

comply yes ___ no ___

RPL35 Meritor main driveline
RPL25 Meritor inter-axle driveline

FRAME

comply yes ___ no ___

Heavy-duty single channel frame (15.0 MM) with full-length heat-treated C-channel reinforcements for severe duty. Omit the front bumper. Full depth at front with an 18" minimum extending forward of grill to facilitate snowplow attachments. 24" frame to ground clearance required, with minimum 65" A.F. Frame assembly must exceed 64,000 lb. G.V.W.R.; heavy duty crossmembers at all locations.

REAR SUSPENSION

comply yes ___ no ___

Hendrickson Haulmaax EX
Walking beam type with 54" axle spacing; 52,000 lb. capacity, with rubber end bushings, transverse torque rods, less shock absorbers & 10.5" ride height.

BRAKES

comply yes ___ no ___

Dual air anti-lock S-cam system {Meritor Q-Plus front & rear}
All wheels with automatic slack adjusters (front & rear), and heavy-duty spring actuated parking brakes on rear axles, and dust shields. Air & electrical connections to rear of frame with glad hands for trailer functions.

STEERING

comply yes ___ no ___

TRW, TWP-60 & RCH-45 dual full power steering gears with engine mounted direct-drive pump.

AIR COMPRESSOR

comply yes ___ no ___

19.0 CFM air compressor, engine mounted direct drive with air storage tanks and air dryer (Meritor-Wabco system saver 1200) on outboard RH frame rail. Shall be mounted to not interfere with underbody or other equipment. The air dryer shall include quick-change spin on desiccant cartridge.

EXHAUST SYSTEM

comply yes ___ no ___

Right hand outboard frame mounted vertical after-treatment system assembly with top stack. Shall not interfere with mounting or operation of underbody scraper, dump body, fuel/oil tank, or operators' field of vision through the rear-view mirrors. The vertical portion of exhaust shall not be mounted to cab. The chassis dealer will be responsible for required clearances on chassis.

ELECTRICAL

comply yes ___ no ___

All exterior lights shall be LED (headlight, turn, brake etc.)
12-volt system with a 160 amp [Delco 36-SI] alternator
Three (3) absorbed glass mat group 31 batteries with a minimum 3,375 C.C.A. total.

Battery box mounting, left side, under cab, (under passenger seat is acceptable) with jumpstart provision located on frame next to starter. Starter shall be grounded directly to battery with a separate ground cable. The four-way flasher system must handle a minimum 35-amp load and hazard lights for heavy duty, continuous duty. Automatic circuit breakers in lieu of fuse.

A body up-fitter electrical wiring junction box shall be mounted behind cab at left frame area for lighting connections and shall be labeled.

Trailer towing wiring effects on unit (per road commission requirement), 2-way radio wiring effects.

Auxiliary snowplow light wiring to front of hood. Locking Master electrical disconnect switch, interior cab mounted with three-minute delay and exterior LED indicator light.

CAB comply yes ___ no ___

Conventional style severe duty, with extra sound abatement package, adjustable air-ride cab.

Tilt hood with fixed grill and rubber fender extensions. Upgraded hood springs included.

Hood opening shall NOT interfere with plow hitch when plow attached.

The driver's seat shall be a Sears Atlas II VRS Seat with arm rest. fabric covered air suspension type with high back, isolated with air lumbar support, and arm rests, Hi-Viz seat belts. Passenger seat shall be fixed foam.

The steering column shall be 18" wheel with tilting & telescoping.

Air conditioning with heavy-duty fresh air heater/defroster. The defroster system shall be designed to keep all windows fog and frost-free.

Heavy-duty multi speed intermittent electric windshield wipers, bottom mount with heated washer system.

Three-piece rear window, AM-FM radio w/ Bluetooth, adjustable swing-out sun visors.

Two (2) stainless steel west coast-type heated mirrors with stainless mountings and 8-inch spot mirrors. Cab mounted grab handles shall be mounted on both driver and passenger sides.

Turn signals shall be self-canceling, with a heavy-duty solid-state flasher (signal- stat 915) or equivalent.

Gauges: voltmeter, hour meter, oil pressure, and coolant temperature, tachometer, speedometer, air pressure, fuel, air cleaner restriction gauge (mounted in cab).

Shall have six (6) additional dash-mounted aux switches for lighting accessories, minimum 20-amp, and shall be labeled as follows:

- | | | |
|--------------------|-----------------|------------------|
| (1) strobe lights | (2) plow lights | (3) blade lights |
| (4) spinner lights | (5) work lights | (6) wing lights |

Class-1 amber/green LED top strobe, center roof location, complete with wiring and mounting provisions.

Driver & passenger door window shall be electric powered and controlled at driver's door panel.

Dual air horns with snow covers. Outside cab lights shall be of a low-profile or flush mounted.

Drive speed sensor for sander control.

Under cab & interior cab floor undercoating.

WHEELS & TIRES comply yes ___ no ___

Front: 22.5 x 12.25 heavy-duty painted steel 10-stud hub piloted flanged-nut mount wheels with two (2) 385/65R22.5 Michelin XZY-3, 20-ply radial load range (J) tires.

Rear: 22.5 x 8.25 heavy-duty painted steel 10-stud hub piloted flanged-nut mount wheels with eight (8) 12R22. Michelin XDN2, 16-ply radial load range (H) tires.

Dealer to supply two spare wheels/tires (1) front & (1) rear.

COLOR comply yes ___ no ___

Cab- Red, solid color vermillion Interior- Black

FUEL TANK comply yes ___ no ___

For transportation only and shall be returned to truck supplier for credit.

Option:

One (1) Fifth Wheel Hitch with Cab mount Air and frame end air.

Two (2) – 49X Western Star (or equivalent) will be as follows:

G.V.W.R.

66,000 lbs.

comply yes ___ no ___

WHEELBASE

214.0" w/set back front axle

comply yes ___ no ___

CAB TO TRUNION

138.0"

comply yes ___ no ___

ENGINE

Diesel {Cummins X12, 500 HP @ 1900 RPM, 1850 LB-FT @ 950 RPM}

or equivalent, with engine compression brake (Jacobs Model), with cartridge filters to include oil, coolant, air & fuel filters. Air filters shall be dry-type dual element. The air filter enclosure shall have integral snow valve within cab control, (inside/outside style) and dash mounted.

Air restriction gauge, capable of providing clean dry air under all-season conditions.

Note: primary fuel assembly will be a combination heater/water separator with ejector valve mounted on firewall under hood. Davco Fuel Pro, primary fuel filter assembly preferred.

The engine shall have a 1350 adapter plate to accommodate a front-mounted hydraulic pump.

comply yes ___ no ___

TRANSMISSION

Eaton/Fuller RTLO 16913A 13 SPEED Manual; speed w/double OD

Air shift, and internal lube pump & oil cooler.

With cast iron clutch housing. *

Transmission and rear axle geared not to exceed 75 mph.

Computer printout of drive train showing ground speed and torque in all gears at specified engine RPM.

*Ratio to be 4.30

comply yes ___ no ___

COOLING SYSTEM

Heavy-duty aluminum cross flow radiator with petcock-type drain. (1,400 square inch minimum)

Radiator to be mounted above front-mounted hydraulic pump shaft.

Air operated fan drive with automatic on/off- type control

comply yes ___ no ___

FRONT AXLE

Drop I-beam type [20,000 lbs. min] with 23,000 lb. multi-leaf springs with torque rods and shock absorbers.

(Meritor FL-941) or (Deit DA-F-20.0-5) (Set back axle)

comply yes ___ no ___

REAR AXLE

Tandem dual drive Meritor RT-46-164p, 46,000 lb. min. capacity with lube oil pump and spin-on oil filter.

Shall have driver-controlled traction differentials in forward rear and rear-rear axle with independent dash-mounted control switches. To include driver controlled inter-axle lock.

comply yes ___ no ___

DRIVELINE

comply yes ___ no ___

RPL35 Meritor main driveline
RPL25 Meritor inter-axle driveline

FRAME

comply yes ___ no ___

Heavy-duty single channel frame (15.0 MM) with full-length heat-treated C-channel reinforcements for severe duty. Omit the front bumper.
Full depth at front with an 18" minimum extending forward of grill to facilitate snowplow attachments.
24" frame to ground clearance required, with minimum 65" A.F.
Frame assembly must exceed 64,000 lb. G.V.W.R.; heavy duty crossmembers at all locations.

REAR SUSPENSION

comply yes ___ no ___

Hendrickson Haulmaax EX
Walking beam type with 54" axle spacing; 52,000 lb. capacity, with rubber end bushings, transverse torque rods, less shock absorbers & 10.5" ride height.

BRAKES

comply yes ___ no ___

Dual air anti-lock S-cam system {Meritor Q-Plus front & rear}
All wheels with automatic slack adjusters (front & rear), and heavy-duty spring actuated parking brakes on rear axles, and dust shields. Air & electrical connections to rear of frame with glad hands for trailer functions.

STEERING

comply yes ___ no ___

TRW, TWP-60 & RCH-45 dual full power steering gears with engine mounted direct-drive pump.

AIR COMPRESSOR

comply yes ___ no ___

19.0 CFM air compressor, engine mounted direct drive with air storage tanks and air dryer (Meritor-Wabco system saver 1200) on outboard RH frame rail. Shall be mounted to not interfere with underbody or other equipment. The air dryer shall include quick-change spin on desiccant cartridge.

EXHAUST SYSTEM

comply yes ___ no ___

Right hand outboard frame mounted vertical after-treatment system assembly with top stack.
Shall not interfere with mounting or operation of underbody scraper, dump body, fuel/oil tank, or operators' field of vision through the rear-view mirrors. The vertical portion of exhaust shall not be mounted to cab.
The chassis dealer will be responsible for required clearances on chassis.

ELECTRICAL

comply yes ___ no ___

All exterior lights shall be LED (headlight, turn, brake etc.)
12-volt system with a 160 amp [Delco 36-SI] alternator
Three (3) absorbed glass mat group 31 batteries with a minimum 3,375 C.C.A. total.
Battery box mounting, left side, under cab, (under passenger seat is acceptable) with jumpstart provision located on frame next to starter. Starter shall be grounded directly to battery with a separate ground cable.
The four-way flasher system must handle a minimum 35-amp load and hazard lights for heavy duty, continuous duty. Automatic circuit breakers in lieu of fuse.
A body up-fitter electrical wiring junction box shall be mounted behind cab at left frame area for lighting connections and shall be labeled.
Trailer towing wiring effects on unit (per road commission requirement), 2-way radio wiring effects.
Auxiliary snowplow light wiring to front of hood. Locking Master electrical disconnect switch, interior cab mounted with three-minute delay and exterior LED indicator light.

CAB

comply yes ___ no ___

Conventional style severe duty, with extra sound abatement package, adjustable air-ride cab.

Tilt hood with fixed grill and rubber fender extensions. Upgraded hood springs included.

Hood opening shall NOT interfere with plow hitch when plow attached.

The driver’s seat shall be a Sears Atlas II VRS Seat with arm rests fabric covered air suspension type with high back, isolated with air lumbar support, and arm rests, Hi-Viz seat belts. Passenger seat shall be fixed foam.

The steering column shall be 18” wheel with tilting & telescoping.

Air conditioning with heavy-duty fresh air heater/defroster. The defroster system shall be designed to keep all windows fog and frost-free.

Heavy-duty multi speed intermittent electric windshield wipers, bottom mount with heated washer system.

Three-piece rear window, AM-FM radio w/ Bluetooth, adjustable swing-out sun visors.

Two (2) stainless steel west coast-type heated mirrors with stainless mountings and 8-inch spot mirrors. Cab mounted grab handles shall be mounted on both driver and passenger sides.

Turn signals shall be self-canceling, with a heavy-duty solid-state flasher (signal- stat 915) or equivalent.

Gauges: voltmeter, hour meter, oil pressure, and coolant temperature, tachometer, speedometer, air pressure, fuel, air cleaner restriction gauge (mounted in cab).

Shall have six (6) additional dash-mounted aux switches for lighting accessories, minimum 20-amp, and shall be labeled as follows:

- (1) strobe lights
- (2) plow lights
- (3) blade lights
- (4) spinner lights
- (5) work lights
- (6) wing lights

Class-1 amber/green LED top strobe, center roof location, complete with wiring and mounting provisions.

Driver & passenger door window shall be electric powered and controlled at driver’s door panel.

Dual air horns with snow covers. Outside cab lights shall be of a low-profile or flush mounted.

Drive speed sensor for sander control.

Under cab & interior cab floor undercoating.

WHEELS & TIRES

comply yes ___ no ___

Front: 22.5 x 12.25 heavy-duty painted steel 10-stud hub piloted flanged-nut mount wheels with two (2) 425/65R22.5 Michelin XZY-3, 20-ply radial load range (J) tires.

Rear: 22.5 x 8.25 heavy-duty painted steel 10-stud hub piloted flanged-nut mount wheels with eight (8) 12R22. Michelin XDN2, 16-ply radial load range (H) tires.

Dealer to supply two spare wheels/tires (1) front & (1) rear.

COLOR

comply yes ___ no ___

Cab- Red, solid color vermillion Interior- Black

FUEL TANK

comply yes ___ no ___

For transportation only and shall be returned to truck supplier for credit.

MISCELLANEOUS

Parts & service manuals with electrical schematics & line-setting sheet.

Component parts & serial numbers on separate sheets, i.e., engine, transmission, differentials, belts, and cooling hoses. Differences in bid specifications must be noted & highlighted on the page marked exception and clarifications to bid specifications, and other such items as required by Federal and State safety statutes.

OPTIONS

(1) Engine & Drive train and chassis extended Warranty, 7 year/250,000-mile w/ EW-4 package.

(2) Towing & Road Service- 5 year/unlimited (\$1,000.00 per occurrence)

NOTE

Six of these trucks will be used as plow trucks with attachments. Component clearances to accommodate hydraulic system, front plow, sander, underbody, wing plow etc., will be the responsibility of chassis dealer.

One of these trucks will be used as plow trucks with attachments. Component clearances to accommodate hydraulic system, front plow, sander, underbody, wing plow etc., and 36" sliding fifth wheel hitch (removeable), will be the responsibility of chassis dealer.

I have read and understand the instructions in the bid specifications, and I certify that the above specifications will be met with the following exceptions:

EXCEPTIONS AND CLARIFICATIONS TO BID SPECIFICATIONS

ENGINE

TRANSMISSION, DRIVELINE & SUSPENSION

CAB & CHASSIS

ELECTRICAL

WHEELS & TIRES

OTHER

Submitted by: _____
Signature and Title

Business Name