

TUSCARAWAS COUNTY
BID SPECIFICATIONS
One (1) 2020 Model Tandem Axle Cab and Chassis Unit

GENERAL

1. Bidder must make notations at each item indicating compliance or deviation. Do not use check marks or X's; mark as "**COMPLY**" or "**EXCEPTION**". All exceptions must be explained in detail on a separate sheet. These specifications are not intended to preclude bidding components with exceptions that are equal in quality and performance to the products described in the specifications. However, bidder must include with each exception a viable argument as to why equipment with these exceptions will be equal to or better than equipment specified. Following these instructions is essential for the proper bid evaluation. **Failure to do so will cause your bid to be rejected for lack of information.** Tuscarawas County will take whatever steps it deems necessary to properly evaluate bids, including contacting one or more bidders for clarification and/or consultation.

2. Bidder to state available delivery date. _____

3. Bidder to furnish tandem axle cab and chassis unit, FOB New Philadelphia, OH. _____

Cab and Chassis

**COMPLY or
EXCEPTION**

Chassis to be suitable for a tandem axle combination dump truck for severe construction service application in road maintenance operations and snow and ice control. _____

A. CHASSIS GENERAL:

1. 2020 model year. _____

2. Minimum 60,000 lbs. gross vehicle weight capacity by axle and suspension ratings, gross vehicle weight rating of 59,900 lb. minimum and expected gross combination weight of 80,000 lbs. _____

3. Wheelbase of 188", cab to tandem axle centerline of 122.4" and axle to end of frame of 63" to accommodate a 15' dump body _____

**COMPLY or
EXCEPTION**

B. ENGINE:

1. Detroit or Cummins diesel engine shall be emissions standards compliant for model year bid. _____
2. Minimum 410 HP @ 1625 RPM, 1900 GOV _____
3. Minimum 1650 ft. lbs. torque @ 975 RPM _____
4. In-line 6 cylinder. _____
5. Turbocharged. _____
6. Air-to-air intercooled and oil cooler. _____
7. 12.8L minimum engine displacement _____
8. Engine shall be electronically controlled _____
9. Engine to be wet-sleeve or parent bore. Dealer to state which. _____
10. Engine equipped with Jacobs Compression Brake _____
11. Aluminum radiator shall be 1500 square inch minimum. _____
 - a. Anti-freeze to provide protection to minus 34 degrees F. _____
 - b. Power Cool plain coolant filter _____
12. Low oil pressure, high coolant temperature automatic engine shutdown _____
 - a. Emergency Override _____
 - b. Pre-shutdown warning light and buzzer. _____
13. Electronic locking throttle _____
14. Engine Block Heater, 115V, 1500 watt _____
15. Engine Fan Clutch to be automatic with manual override _____
16. Exhaust to be vertical, cab mounted on right hand side _____

**COMPLY or
EXCEPTION**

C. FILTERS

- 1. Canister type oil filter _____
- 2. Canister type fuel filter _____
- 3. Dry type heavy duty 2 stage air cleaner with restriction gauge at filter _____
- 4. DAVCO 487 fuel / water separator, frame mounted with heater. _____

D. AUTOMATIC TRANSMISSION:

- 1. Allison 4500RDS Automatic transmission with PTO Provision _____
- 2. Dash mounted PTO switch with indicator lamp _____
- 3. Electronic Transmission customer access connector, firewall mounted _____
- 4. Water to oil transmission cooler, frame mounted _____

E. FRAME:

- 1. 7/16" x 3-9/16" x 11-1/8" minimum steel frame _____
- 2. 1/4" minimum, C-Channel inner liner frame reinforcement _____
- 3. Provide 12" minimum integral front frame extension with 1/4" insert and cheek plate reinforcement in cut out area. _____
- 4. Huck-spin round collar chassis fasteners. _____
- 5. Frame mounted front and rear tow hooks. _____
- 6. Left and right side of frame must be clear from back of cab to forward rear spring hanger to accommodate central hydraulics system reservoir and associated valves, hydraulic lines and underbody tool box. _____
- 7. Electric backup alarm 97db. _____
- 8. Trailer hand valve. _____
- 9. A & E connector with glad hands and end of frame with 7-way socket. _____
- 10. Body builders connection junction box required at end of frame for dump body connections. _____
- 11. Three piece, 14" painted steel front bumper with collapsible ends. _____

**COMPLY or
EXCEPTION**

F. AXLES AND SUSPENSION:

- 1. Front axle – 20,000 lbs. capacity (minimum). Detroit DA-F-20.0-5 drop single front axle or equal. _____
 - a. Front shock absorbers. _____
 - b. Conmet pre-set bearing cast iron hubs filled with Synthetic FE 75W-90 front axle lube _____
 - c. Extended life oil seals _____
- 2. Front springs – taper leaf with 20,000 lbs. capacity (minimum). _____
- 3. Rear axles- MT-40-14XP 40,000 lb. R-Series tandem rear axles with iron rear axle carrier and heavy duty axle housing _____
 - a. 4.11 gear ratio _____
 - b. SPL170XL Dana Spicer Main driveline with half round yokes _____
 - c. SPL170XL Dana Spicer Inter axle driveline with half round yokes _____
 - d. Driver controlled traction and differential- Both tandem rear axles _____
- 4. Rear suspension – 46,000 lb. minimum capacity. Hendrickson RT-463 with 54 in. axle spacing. _____

G. STEERING

- 1. TRW THP-60 Power Steering with RCH45 auxiliary gear. _____
- 2. 18" steering wheel- 4 spoke. _____
- 3. Adjustable tilt and telescoping steering column _____

H. BRAKES:

- 1. Full air (dual system). _____
- 2. WABCO -4S / 4M Anti-skid (ABS) all wheels with traction control and ATC Off –Road Switch. _____
- 3. 19.0 CFM air compressor (minimum) _____
- 4. 30 x 30 parking brakes with dash control, both axles. _____

**COMPLY or
EXCEPTION**

- 5. Meritor automatic slack adjusters front and rear. _____
- 6. Front 16-1/2" x 6" Q cam type with dust shields _____
- 7. Rear 16-1/2" x 6" Q cam type with dust shields _____
- 8. Conmet cast iron outboard-mount brake drums with dust shields _____
- 9. Air dryer – BW AD-IS with heater and integral reservoir. _____
- 10. Automatic Moisture Ejectors. _____
- 11. Brakes shall be Dana ES or Meritor Q Plus _____
- 12. Asphalt Dump Brake chamber clearance. _____

I. TIRES AND WHEELS:

- 1. Polished front wheels – Alcoa LVL One 82462 x 22.5 x 12.25, 10 Hub Pilot. 4.68 inset, 10 hand aluminum disk front wheels _____
- 2. Front tires - 425/65 R 22.5, 20 ply, Michelin XFE radials _____
- 3. Rear wheels – Alcoa LVL One 88367X x 22.5 x 8.25, 10 Hub Pilot, aluminum, disk wheels with polished outers. _____
- 4. Rear tires – eight (8) Michelin X Works - XDY 11R 22.5, 16 ply, radial _____

J. FUEL TANK AND DIESEL EXHAUST FLUID TANK:

- 1. Minimum 75 gallon useable capacity aluminum diesel fuel tank. _____
- 2. Provide step in fuel tank or attached to tank. _____
- 3. Fuel tank to be left side mounted. _____
- 4. Minimum 13 gallon useable capacity diesel exhaust fluid (DEF) tank. _____
- 5. Diesel Exhaust fluid tank to be left side mounted. _____

**COMPLY or
EXCEPTION**

K. ELECTRICAL:

1. 12-volt system with three (3) group 31 maintenance-free batteries, 3000 CCA total (minimum), mounted in an aluminum battery box, LH side. Provide positive lead disconnect switch in cab and positive and negative posts for jump start on frame next to the starter. _____
2. Minimum 160 AMP alternator. _____
3. Composite halogen headlights with replaceable bulbs, turn signals, 4-way flashers, and cab mounted LED marker clearance lights _____
4. Marker light/headlight switch with separate interrupter for clearance lights _____
5. Circuit breakers in lieu of fuses. _____
6. Two (2) additional dash mounted toggle switches _____
7. Six (6) on/off rocker switches in dash with indicator lights; four (4) wired to chassis at back of cab, two unwired, label all options. _____
8. Furnish cab auxiliary power cable. _____

J. CAB:

1. Aluminum conventional with fixed rear window. _____
2. Fiberglass forward tilting hood and fenders with stationary grill. _____
3. 2-1/2 " fender extensions _____
4. RH under step after treatment system assembly with single vertical muffler – aluminized steel. _____
5. Vertical stack with elbow and aluminum or stainless steel heat shield. _____
 - a. Space saver type stack mounted to not protrude more than 2" behind cab. No exceptions. _____
6. Seats _____
 - a. Premium vinyl high-back adjustable air suspension type driver's seat with three chamber air lumbar, dual driver arm rests, integrated cushion extension, forward and rear cushion tilt and adjustable shock absorber. _____
 - b. Single fixed high back vinyl passenger seat _____

**COMPLY or
EXCEPTION**

- 7. Air Horn
 - a. Cab roof mounted with snow shield _____
- 8. Heated stainless steel west coast mirrors.
 - a. 8" heated stainless steel bolt on convex mirrors on both sides. _____
- 9. Direct reading gauges – oil pressure, coolant temperature, air pressure, volts or amps, fuel level, tachometer, speedometer, and engine hour meter (oil pressure activated) and DEF level indicator _____
- 10. Fresh air high-output heater / defroster / air conditioner _____
 - a. Side of hood air intake with firewall mounted air cleaner, passive pre-cleaner and inside / outside air door with snow shield. _____
- 11. Electric wipers
 - a. Two speed, intermittent feature and electric washers with 8 liter washer fluid reservoir with level indicator. _____
- 12. Interior dome light. _____
- 13. Door mounted interior left and right hand entry assist handles. _____
- 14. AM/FM WB stereo radio with Bluetooth, USB port and auxiliary inputs. _____
- 15. Dual sun visors on cab interior. _____
 - a. Composite exterior sun visor _____
- 16. Arm rest on each door _____
- 17. Tinted glass all around with operating wing windows. _____
- 18. Interior convenience package with CB terminal and wiring under header and antenna mounted on LH or RH mirror. _____
- 19. Non-removable bug screen behind grille. _____
- 20. White winter front. _____
- 21. Pre-flight all outputs flash with smart switch. _____
- 22. Hood liner, firewall and floor heat premium insulation required to reduce heat in cab. _____

**COMPLY or
EXCEPTION**

M. EXTERIOR PAINT AND INTERIOR COLOR:

- 1. Exterior painted manufacturer's standard silver. _____
- 2. Interior to be manufacturer's standard gray. _____

N. WARRANTY:

- 1. Dealer to state or provide manufacturer's standard warranty information on truck and components. Minimum one (1) year, 100,000 mile, basic vehicle warranty required on truck and drivetrain components _____

O. LITERATURE / MANUALS:

- 1. Dealer to submit all available printed literature on cab and chassis and individual drive train components with bid. _____
- 2. One instruction, parts and service manual to be furnished with chassis upon delivery. _____
- 3. Dealer to provide acces to factory build information. _____
- 4. Dealer to furnish 45 day tag. _____
- 5. Dealer to provide all necessary inspections and title documents to title to the Tuscarawas County Commissioners upon delivery. _____

BID SHEET

Tuscarawas County

One (1) 2020 Model, Tandem Axle Cab and Chassis Unit

Bid Amount \$ _____

Bidder to attach "exceptions" sheet to bid for unit offered.

Bid submitted by:

Company Name

Address

Phone #

Person preparing bid (signature & printed name)

E-mail address

Federal Identification Number