ADVERTISEMENT FOR BID:

 Sealed bids will be received at the Office of the Clerk of the Board of County Commissioners of Tuscarawas County, 125 East High Avenue, New Philadelphia, OH 44663 until **1:30 pm on Wednesday, September 7, 2022** for the purchase of vehicle listed below. Specifications and bid forms can be obtained at no cost at https://www.co.tuscarawas.oh.us/engineer-project-materials/ or by contacting the Tuscarawas County Engineer, 832 Front Avenue SW, New Philadelphia, OH 44663 or at 330-339-6648.

**Vehicle Purchase**

1. The purchase of one (1), 2023 or newer model, Tandem Axle Conventional Cab and Chassis unit, FOB New Philadelphia, OH.

 All bids must be in a sealed envelope marked “Cab & Chassis Bid.”

 The Commissioners have the right to reject any or all bids and to waive any informalities or irregularities in the bids received.

BY ORDER OF THE TUSCARAWAS COUNTY COMMISSIONERS:

CHRIS ABBUHL

AL LANDIS

KERRY METZGER

ATTEST: Rhonda Jordan, Clerk

Publish: The Times Reporter on August 23, 2022

 https://www.co.tuscarawas.oh.us/engineer-project-materials/

 Bid Tabulation will be posted on above website upon award of bid.

TUSCARAWAS COUNTY

BID SPECIFICATIONS

One (1) 2023 or newer Model Tandem Axle Cab and Chassis Unit

GENERAL

1. Bidder must make notations at each item indicating compliance or exception. 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 proper bid evaluation. Tuscarawas County will take whatever steps it deems necessary to properly evaluate bids, including contacting one or more bidders for clarification and/or consultation, prior to awarding. Tuscarawas County reserves the right to reject any or all bids and to waive any informalities and / or irregularities in the bids received, and to award the bid that is in the best interest of the County, following review and evaluation.

2 Bidder to state 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. 2023 or newer model year.

 2. Minimum 60,000 lbs. gross vehicle weight capacity by axle and

suspension ratings, gross vehicle weight rating of 60,000 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. Turbocharged, In-line 6 cylinder.

 5. Air-to-air intercooled and oil cooler.

 6. 12.8L minimum engine displacement

 7. Engine shall be electronically controlled

 8. Engine to be wet-sleeve or parent bore. Dealer to state which.

 9. Engine equipped with Jacobs Compression Brake

 10. Aluminum radiator shall be 1500 square inch minimum.

 a. Anti-freeze to provide protection to minus 34 degrees F.

 11 Low oil pressure, high coolant temperature automatic engine shutdown

 a. Emergency Override

 b. Pre-shutdown warning light and buzzer.

 12. Electronic locking throttle

 13. Engine Block Heater, 115V, 1500 watt

 14. Engine Fan Clutch to be automatic with manual override

 15. Exhaust to be horizontal, with RH, outboard, under step, after treatment

 system assembly and muffler with tailpipe exiting forward of rear tires.

 **COMPLY** or

 **EXCEPTION**

C. FILTERS

1. Canister type fuel and oil filters

2. Dry type heavy duty 2 stage air cleaner with restriction gauge at filter

3. DAVCO 487 fuel / water separator with ESOC and 12 V and 120 V

 pre-heater, frame mounted.

D. AUTOMATIC TRANSMISSION:

 1. Allison 4500 RDS Automatic transmission with PTO Provision

 2. Dash mounted PTO switch with indicator lamp

 3. Electronic Transmission customer access connector, firewall mounted,

 with vehicle interface wiring connector with PDM and no blunt cuts at end

 of frame.

 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 24” minimum integral front frame extension with 1/4” insert.

4. Huck-spin round collar chassis fasteners.

 5. Frame mounted front and rear tow hooks.

 6. Air Tanks to be installed in-between frame rails to insure outside of frame

space for the hydraulics system reservoir, valves, hydraulic lines, and

underbody tool box etc.

 7. Electric backup alarm 97db.

 8. Trailer hand valve.

 9. Air and electrical connectors with glad hands to end of frame with 7-way

socket and 36” of additional lines and wiring at end of frame.

10. Custom, 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

1. Front springs – taper leaf with 20,000 lbs. capacity (minimum).
2. 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. SPL250XL Dana Spicer Main driveline with half round yokes

c. SPL170XL Dana Spicer Inter axle driveline with half round yokes

d. Driver controlled traction differential- Both tandem rear axles

1. 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

**COMPLY** or **EXCEPTION**

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), with safety valve.

4. 30 x 30 parking brakes with dash control, both axles.

 5. Meritor automatic slack adjusters on front and Haldex automatic slack

adjusters on rear to allow for asphalt brake chamber clearance. .

 6. Front 16-1/2” x 6” Q cam type with dust shields

 7. Rear 16-1/2” x 7” Q cam type with dust shields

 8. Conmet cast iron outboard-mount brake drums with dust shields

9. OEM brake line air dryer with integral air governor and heater.

 10. Automatic drain valves with heater on wet tank, and without heater on all

other tanks. Air tanks to be located inboard and / or below frame just

forward of rear suspension.

 11. Brakes shall be Dana ES or Meritor Q Plus

 12 Provide 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

1. Front tires - 425/65 R 22.5, 20 ply, Michelin XZY radials
2. Rear wheels – Alcoa LVL One 88367X x 22.5 x 8.25, 10 Hub Pilot,

aluminum, disk wheels with polished outers. .

1. Rear tires – eight (8) Michelin X Works - XDY 11R 22.5, 16 ply, radial

**COMPLY** or

 **EXCEPTION**

J. FUEL TANK AND DIESEL EXHAUST FLUID TANK:

1. Minimum 100 gallon useable capacity aluminum diesel fuel tank.
2. Fuel tank to be left side mounted.

3. Provide step in fuel tank or attached to tank.

4. Minimum 10 gallon useable capacity diesel exhaust fluid (DEF) tank

5. Diesel exhaust fluid tank to be LH side mounted.

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,

under cab. Provide positive lead disconnect switch in cab and positive and

negative posts for jump start on frame next to the starter. Provide auxiliary

power cable into cab for accessory connection.

1. Minimum 160 AMP alternator.

3. Composite halogen headlights with replaceable bulbs, turn signals, 4-way

flashers, and cab mounted LED clearance marker lights. LED flange

mounted stop / tail / turn lights with separate backup lights and furnish 7’

of additional wiring at end of frame for relocation by body builder.

4. Integral headlight / marker light switch and dual connectors and switch

for customer furnished snow plow lights, low beams off with high beams.

Headlights on with wipers, with low beam daytime running lights.

 5. Four (4) on / off rocker switches in dash with indicator lights; all (4) wired

to chassis at back of cab, with label options.

6. Two (2) additional dash mounted switches with indicator lights and wiring

 for customer furnished beacons.

7. Circuit breakers in lieu of fuses.

 8. Overhead Instrument panel.

 **COMPLY** or

 **EXCEPTION**

L. CAB:

1. Aluminum conventional with fixed rear window and cab roof

reinforcements for roof mounted components.

 2. Fiberglass forward tilting hood and fenders with stationary grill.

3. Short fenders with mud flaps and bolt on flexible fender extensions

4. Plastic wheel fenders.

 5. Door locks and ignition switch keyed the same, provide four (4) Keys

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 with inboard armrest.

7. Air Horn

 a. Cab roof mounted with snow shield

 8. Dual heated stainless steel west coast mirrors with LH and RH remotes.

 a. 8” heated stainless steel bolt on convex mirrors on both sides.

9. Direct reading gauges and smart switch expansion module– 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 2 gallon

 washer fluid reservoir with level indicator.

12. Interior dome light / LH and RH dual reading lights.

13. LH door mounted map pocket and LH and RH interior entry assist handles.

**COMPLY** or

 **EXCEPTION**

 14. AM/FM WB stereo radio with Bluetooth, USB port and auxiliary inputs.

 15. Dual interior sun visors in cab and composite exterior sun visor.

 16. 5 lb. fire extinguisher and triangle reflectors with flare holders

 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-trip lamp inspection, all outputs flash with smart switch.

 22. Hood liner, firewall and floor heat premium insulation required to reduce

 heat in cab.

 23. RH and LH electric powered windows and door locks.

 24. 12 Volt power supplies in dash and at back of cab.

 25. Electronic cruise control with switches in LH switch panel.

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

**COMPLY** or

 **EXCEPTION**

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 access 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.

P. **EXCEPTIONS:**

**BID SHEET**

**Tuscarawas County**

**One (1) 2023 or newer Model, Tandem Axle Cab and Chassis Unit**

 Bid Amount $

Bid submitted by:

Company Name

Address

Phone #

Person preparing bid (signature & printed name)

E-mail address

Federal Identification Number