ALLEGAN COUNTY ROAD COMMISSION

SPECIFICATIONS FOR TANDEM AXLE DUMP TRUCK

The following is a list of <u>Minimum Acceptable Requirements</u> for trucks 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 and options below. All bids are to include delivery of units to the Road Commission.

Tı	ruck GVWR Minimum 64,000 lbs. Truck GVWR is
1.	Engine – (Shall be 2021 emissions compliant, Detroit) 450 HP, 1650 lb-ft torque minimum.
	Model, HP
	Torque, @
2.	Engine Requirements- (a) Automatic shutdown for low oil pressure and coolant (b) Replaceable filters (c) Front crankshaft adapter for P.T.O. – 1350 adapter flange (d) Engine to be retro-fitted for overhead fuel tank system (e) Engine and after treatment system warranty, 7 yr, 250,000 mile, 100% parts and labor (f) Engine software cables, adapters and paper manuals (g) Mechanic training for updates and changes
	NOTE: P.T.O. shaft & pump to be installed by fabricator.
3.	Radiator & Grill - Heavy duty radiator to accommodate front mounted P.T.O. pump, shaft, and joint assembly.
	NOTE: Hole in radiator and grill is unacceptable.
4.	Allison Automatic Transmission (a) 6-speed model 4500 RDS with synthetic Allison fluid (b) Push button shift control (c) Low oil level sensor (d) 5-yr, 200,000 mile extended warranty (e) Transmission ECU mounted inside the cab (performed by dealer, all factory connections with sealer, no splices)
5.	$\underline{\text{Drive Line}} - 1810 \text{ heavy duty drive line with two-section shaft with center bearing and half round u joints.}$
6.	Rear Axle - Rockwell RT-46-160, driver operated differential lock in both rear axles and magnetic drain plugs. Gear Ratio 5.63 for a road speed not to exceed 60 M.P.H. at 1900 RPM. Startability factor not to be less the 38. Startability factor is
7.	Rear Suspension – 46,000 lb Nuway ADZ-246 air ride height control valve, one valve per side shall control both axles, right side linkage shall be adjustable.
8.	<u>Front Axle</u> – Meritor, minimum capacity 20,000 lbs. Set back type set at approximately 33 inches in back of grill. (see wheel base dimensions, section 12) (a) Vented hub caps
9.	Front Springs - Taper-leaf type Yes No 10,000 lbs. each spring. (a) Greaseable shackle pins, minimum diameter - 1 inch.
10	. Power Steering - Hydraulic Assisted, TRW gears Turning Radius Degree outer circumference feet

11.	Air Brakes - Spring-set parking brake with warning light & buzzer. (a) Compressor shall be a Bendix BA-921 or equal. (b) Front Brakes: 16 1/2 X 6" Rockwell TQ, S-Cam with dust shields and Haldex automatic slack adjuster. (c) Rear Brakes: 16 1/2 X 7" Rockwell TQ, S-Cam with dust shields and Haldex automatic slack adjuster. (d) Haldex Gold Seal Brake Chambers. (e) Heated air dryer Wabco spin on type (f) Wabco ABS (g) Air tanks mounted on outside of frame rails				
12.	Frame – RBM = 3,200,000 / Strength = 120,000 PSI minimum Single Channel				
13.	8. <u>Shock Absorbers</u> – Six shocks required, two per axle				
14.	Tires, Hubs, and Wheels — (a) Front tires shall be size of 315-80R-22.5 (b) Front wheels shall be <u>heavy duty</u> steel ten (10) hole disc hub piloted (c) Dual rear tires shall be size of 12R-22.5 (d) Rear wheels shall be <u>heavy duty</u> ten (10) hole disc hub piloted unimount				
15.	Electrical System ** multi-plex wiring outside of cab is not acceptable ** Multiplex Chassis Yes No				
16.	Gauges (direct reading type) - (a) Oil pressure (b) Water temperature (c) Ammeter or Voltmeter (d) Air pressure, (e) Dash mounted air filter restriction gauge, (f) Tachometer, (g) Fuel gauge and (h) Engine hour-meter.				
17.	Warning lights and/or buzzers for safety - (a) for low air pressure, (b) engine overheating, (c) low oil pressure, (d) back-up alarm				

18.	Truck Cab (a) Steel conventional cab. BBC is (b) Cab to be corrosion and rust protected between inner and outer walls (c) Air ride cab (d) Key code D610 (e) Fiberglass sun visor (f) Rear cab glass to be safety coated (g) Tool box mounted under right step				
19.	<u>Cab Insulation</u> - Complete insulation package to include floor, roof, back wall, firewall and doors.				
20.). <u>Tinted Windshield</u>				
21.	 Exhaust System (a) Vertical after treatment system with vertical tailpipe mounted behind right rear corner of cab. (b) After treatment control valve mounted inside the cab (performed by dealer, all factory connections with sealer no splices) 				
AM heat pacl	<u>Cab</u> - Air conditioning, heater with shut off valve, cruise control, power windows, tilt wheel, Radio: /FM/CD/USB with blue tooth connect, spotlight on left side, heated west coast type mirrors with double brackets, ted spot mirrors, 12-V power point, marker lights, four extra ignition controlled switches, snowplow headlight prep kage, air ride cab, grab handles both sides, left side roof mounted dual air horns, engine fan override switch, electric rmittent wipers, stainless cab skirts and single cup holder.				
Left	side air cleaner YES, must be capable of drawing inside or outside air.				
23.	Front Bumper - Not required				
24.	<u>Driver's Seat</u> - National 2000, Cloth Mid Back Air Suspension with arm rests				
25.	<u>Passenger Seat</u> - Standard cloth seat, tool box under seat.				
26.	<u>Fuel Tank</u> – 50 gallon tank for transporting truck only.				
27.	Paint Color - Red, Paint top of truck hood flat black				
28.	Air Tank and Exhaust Pipe - to be mounted no lower than bottom of frame (24" minimum ground clearance)				
29.	Parts Books, Parts CD Rom, and shop repair manuals must be furnished before final payment is made.				
30.	<u>Bidders</u> - Order to manufacturer to be checked and signed by Allegan County Road Commission before final construction order is submitted.				
EXC	CEPTIONS:				

OPTIONS:									
Tire size noted above, make option	ns to be listed here, either Good Year G28	9 and G622 or Mich	elin XZUS a	and XND					
Factory labels on extra dash switches: front strobes, rear strobes, blade light, spreader light									
Necessary Dimensions To Be Pro	vided by Bidder								
1. Distance between seats	inches								
2. Length of hood ahead of "dog	house" or fire wall inches								
3. Length and width of "doghous	3. Length and width of "doghouse" in cab inches inches								
4. Distance from back of cab to	drive wheel base inches								
5. Distance of DEF tank from dr	5. Distance of DEF tank from drive wheel base inches								
6. Distance from frame bottom to	o ground inches								
	WARRANTY								
Component Years	Parts & Labor Coverage	Mile	<u>Miles</u>						
ENGINE	100% Parts & Labor	250,000		7					
ALLISON TRANSMISSION	100% Parts & Labor	200,000	OR	5					
TOTAL VEHICLE									
DRIVETRAIN									
FRAME									
CAB CORROSION									
CAB STRUCTURE									
RADIATOR & COOLING SYSTEM									
EXHAUST & AFTERTREATM SYSTEMS	ENT								

^{*}The Allegan County Road Commission reserves the right to request any specification or component measurements*

The Allegan County Road Commission reserves the right to request any specification reviews with the county, manufacturer and finishing fabricators