

**Attachment Three
(For Reference Only)**

Specifications for Two (2), Medium/Heavy Duty Dump Truck Cab – Chassis'

General

These specifications will describe the **minimum requirements** for a medium/heavy duty, diesel powered, cab chassis designed to accommodate a 14 ft. dump body. The back of the cab to rear axle length shall be 120 inches (minimum) and the cab/chassis shall have an externally mounted 50 gallons/227-liter aluminum fuel tank-LH. The unit shall be equipped with power steering, air conditioning, two (2) speed with intermittent wipers, full width bench style vinyl seating, West Coast stainless steel heated mirrors and the manufacturer's full dash instrument package including tachometer. The exterior color of the unit shall be white. A truck manual and set of filters for future reference shall be included.

1. Engine

- 1.1.1 The engine shall; comply with all US EPA emission requirements for current year manufacture, be equipped to operate using diesel fuel (a desirable engine characteristic would allow operation on a minimum of 5% blend biodiesel). It shall be a (wet sleeve) diesel engine, 8.5 liter minimum, 350 horsepower / 1000 ft. / lb. minimum. No advanced EGR.
- 1.1.2 The engine shall be equipped with the following minimum items/ characteristics: Kysor type shutdown system for low oil pressure and coolant system; Phillips-Temro, or equal 1000 watt/115-volt block heater equipped with an exterior, heavy duty, bumper mounted, weatherproof electrical plug; replaceable dry-type air cleaner with safety element; replaceable oil filter element and all other manufacturer's standard accessories necessary for full protection of the engine's operation.
- 1.1.3 The engine shall be equipped with, at minimum, a DR 12V 130 amp 28-SI alternator.
- 1.1.4 The engine shall be equipped with an on/off fan drive, automatic fan control with indicator light.

2. Transmission

- 2.1.1 The unit shall be equipped with an Allison 3000 RDS six (6) speed automatic Transmission and 5 yr. Allison transmission coverage.
- 2.1.2 Push button electronic shift control, dash mounted.
- 2.1.3 Water to oil transmission cooler – in radiator end tank.
- 2.1.4 Castrol transynd, or equal synthetic automatic transmission oil.
- 2.1.5 Provision for mounting a "hot shift" PTO without interference.
- 2.1.6 Over-speed for pto for dump bed will be controlled by truck transmission control module

3. Axles

- 3.1.1 Set back axle – truck
- 3.1.2 The front axle shall be 10,000 lb. minimum rating.
- 3.1.3 12,000 lb. tapered leaf front suspension
- 3.1.4 Front shock absorbers
- 3.1.5 The rear axle (single) shall be 22,000 lbs. minimum rating with heavy duty and overload springs.
- 3.1.6 RS-23-160 R-series, or equal single rear axle @ 22,000#.

- 3.1.7 Between 4.70 to 5.60 rear axle ratio.
- 3.1.8 26,000 lb. or larger rear springs with overloads.

4. Brakes

- 4.1.1 The unit shall be equipped with air brakes on all wheels/axles. The unit shall additionally be equipped with standard air brake connections designed to connect air brake trailers for towing.
- 4.1.2 Meritor or equal 16.5 x 5 Q+ cast spider cam front brakes, double Anchor, fabricated shoes.
- 4.1.3 Gunitite, or equal automatic front slack adjusters.
- 4.1.4 Meritor or equal 16.5 x 7 Q+ cast spider cam rear brakes, double anchor, fabricated shoes.
- 4.1.5 Gunitite, or equal automatic rear slack adjusters.
- 4.1.6 WABCO SS1200, or equal brake line air dryer with heater.

- 5. **Tires & Wheels** – All tires shall be 11R-22.5 – 14 ply, (minimum), radial, (grip on rear), mounted on 22.5 inch 10-hole hub pilot wheels. Two (2) piece or “open center” wheels are not acceptable.

6. Cab & Chassis

- 6.1.1 Frame shall be able to accommodate 14 ft. 5-7 cubic yard Dump Body and 30-ton hitch. There shall be 60” (minimum) of after frame behind the rear tires.
- 6.1.2 Alliance, or equal fuel filter/water separator.
- 6.1.3 Conventional cab.
- 6.1.4 LH and RH heated mirrors with 8” convex under.
- 6.1.5 LH and RH hood mirrors for viewing down sides of truck, not to protrude past fenders,
- 6.1.6 Left and right tow hooks shall be mounted on front of frame and easy access provided.
- 6.1.7 (2) cup holders LH and RH dash.
- 6.1.8 Heater, defroster, A.C.
- 6.1.9 Full width bench style vinyl seating
- 6.1.10 Diagnostic interface connector 9 pin, SAE J1587/1708/1939, located below dash.
- 6.2.1 12V plug in dash.
- 6.2.2 2” transmission oil temperature gauge.
- 6.2.3 Clean frame (from back of cab – back)
- 6.2.4 Trailer air and electric at end of frame for towing. (Electric will be a Sure Lok, 6 pole, round electrical connection – does not need a 7-pole connector.)
- 6.2.5 Cab color A” N0006EA white elite SS.
- 6.2.6 AM FM radio.
- 6.2.7 Towing extended/roadside service warranty 2 years/unlimited.

7. Lighting

- 7.1.1 All lighting shall be LED.
- 7.1.2 Combination stop/turn lights for trailer.