

UNSPSC: 25101601	GROUP 3: DUMP TRUCK BODY SPECIFICATIONS	
	(DUMP-5) FIVE (5) CUBIC YARD HEAVY-DUTY DUMP BODY	
STATE OF FLORIDA BASE VEHICLE SPECIFICATION		
REPRESENTATIVE MODEL(S):	GALION 402U, GAR-P 217, GODWIN 300-U, HEIL MODEL HM5YD10, JHE 310-23-5, OX BODIES 10FT5-7YD, T&T T-300, WARREN U450-10 OR APPROVED EQUIVALENT	
SCOPE:	<p>The requirements specified herein apply to all bodies supplied with trucks purchased under the terms and conditions of this contract.</p> <p>The intent of this specification is to provide minimum requirements for a dump body and hoist combination to be used by the State and various political subdivisions. Due to the nature of government work, all body/hoist combinations delivered under this specification may be subject to use under adverse conditions such as dumping on road shoulders at a slight angle and spot dumping of loads. Vendor will be held responsible for supplying equipment that will withstand this intended use for the life of the chassis (approximately ten (10) years). Parts and service must be readily available throughout the Purchasing District(s) bid.</p>	
SAFETY:	Heavy-Duty dump body, hoist and electric roll-up dump body tarp systems shall conform to all applicable Federal Motor Vehicle Safety Standards ("FMVSS") and State of Florida vehicle safety laws, regulations, specifications, standards, and requirements in effect as of the date of manufacture.	
REQUIREMENTS:	<p><b>In the priority listed herein, each State of Florida Base Vehicle Heavy-Duty Dump Body, Hoist and Electric Roll-Up Dump Body Tarp System shall comply with the following:</b></p> <ul style="list-style-type: none"><li>• <b>Section 3, Description of Scope;</b></li><li>• <b>the individual Base Vehicle Specification contained in the applicable Base Vehicle Tab in the Price Sheet Workbooks; and</b></li><li>• <b>the following Requirements:</b></li></ul>	
BODY REQUIREMENTS		
A. Capacity:		
1.	Minimum five (5) cubic yard capacity, water level, without sideboards.	
2.	<p>Dimensions (minimum):</p> <ul style="list-style-type: none"><li>• Inside Length: ten (10) feet, zero (0) inches</li><li>• Inside Width: seven (7) feet, zero (0) inches</li><li>• Side Height: one (1) foot, eleven (11) inches</li><li>• End Heights: two (2) feet, six (6) inches</li></ul>	
3.	This body will be used with sideboards installed by the user, so all capacity derived load ratings must be based on seven (7) cubic yards capacity.	
B. Under structure Construction:		
1.	Under structure to consist of two (2), six (6) inch I-beam structural steel longitudinal beams and four (4) inch C-channel structural steel transverse members.	
2.	Transverse members are to be evenly spaced along the longitudinal beams; however, in no case shall there be spacing greater than twelve (12) inches off-center between transverse members.	
3.	Transverse member fabrication and installation must meet the following requirements: extend the entire width of the body, welded on the web side to the longitudinal beams, gusseted to each longitudinal with 1/4 inch steel plate, and welded to the rub rail on each end.	
C. Body Construction:		
1.	Entire body (including sides, front, rear apron, cab protector, floor, and tailgate) is to be constructed with minimum eight (8) gauge hi-tensile (minimum 45,000 PSI yield strength) steel plate.	
2.	All horizontal braces and rub rails are to be sloped to allow debris and dirt to fall off.	

3.	Floor to side must have 45 degree slope or two (2) inch radius.
4.	Top rails to be reinforced box-type construction.
5.	Minimum of three (3) vertical side braces on each side of body in addition to full depth rear corner posts. Tailgate must be reinforced with two (2) vertical braces.
6.	Body to be equipped with heavy-duty hardware, fabricated steel tailgate hinges, and double thickness spreader chain key slots.
7.	Full-depth rear apron and a half cab protector.
8.	Pockets for extension sideboards are to be provided at the front and rear of each top rail.
9.	Continuous weld construction is required throughout. A suitable chain weld is acceptable for the top rail only, if that is part of the Aftermarket Option OEM's standard construction practice. All seams or overlapped joints shall have a full penetration weld or be welded on both sides.
10.	This body shall be structurally sound at a loading of 24,000 lbs. payload.

#### **HOIST REQUIREMENTS:**

##### **A. Capacity:**

1.	Hoist provided is to be an N.T.E.A. Class 50, minimum. Hoist is to be a Galion U-850C, Godwin 8826 SF, Heil 1821, Ox Bodies 84725, Warren U50-723 or Approved Equivalent.
2.	Hoist must be rated by the vendor for a payload of 24,000 lbs. (12.0 tons) plus the weight of the body supplied, minimum. Vendor should consider anticipated rear overhang when rating hoist capacity.

##### **B. Type**

1.	Hoist is to be a pivoting, twin arm, underbody type with a single cylinder.
2.	Hoist is to be a packaged unit to include a C-Channel sub frame with heavy-duty hinges, pivot type lift-arm mechanism (sliding or rolling type lift-arm mechanisms are not acceptable), direct mount hydraulic pump, and all necessary controls required for operation.
3.	An OSHA approved hinged body props must be installed on each side of the sub frame.
4.	Hoist provided must raise the body to a dump angle of 50 degrees, minimum.
5.	Hydraulic pump must be a direct mount, pump/valve design with an SAE "B" mounting flange to the transmission PTO. The pump shall include an air shift control valve for vehicles equipped with air brakes and a cable controlled valve for vehicles equipped with hydraulic brakes. Vendor must supply hydraulic pump and reservoir, all adapters, couplings, hoses, fittings, etc. sized and required for proper operation.
6.	Transmission mounted PTO shall be a Chelsea 276 or Muncie CS Series, electric-over-hydraulic shift, with over speed control when specified or Approved Equivalent for vehicles equipped with an automatic transmission; or a Chelsea 440 or Muncie TG Series, electric-over-air shift or Approved Equivalent, for vehicles equipped with a manual transmission and air brakes. All transmission PTO's shall have an SAE "B" direct mount flange for mating with pump. System must include a light to indicate when the PTO is engaged.
7.	The PTO switch, indicator light, and hydraulic pump air shift control valve (vehicles equipped with air brakes) shall be installed in a dash mounted control panel readily accessible to the driver.  The PTO control for trucks equipped with automatic transmissions shall have a shielded, illuminated rocker switch in the dash mounted control panel. For trucks with air brakes the pump control shall be feathered air with a neutral safety lock to prevent accidental PTO engagement. It shall have a spring return to neutral for hoist down.

	The PTO controls for trucks equipped with manual transmissions without air brakes shall be electric shift and the pump control shall be cable shift with a floor mounted console or stand. The shift controls shall include a mechanical safety interlock to prevent accidental PTO engagement, automatic PTO disengagement when in the "lower" position (to prevent the PTO from being accidentally left in gear); spring return valve (dead man control) in the "raise" position, and controlled lowering (feathering) for smooth dump body decent. Controls to be Chelsea 329144X "PTO/dump pump combo valve" or Muncie K90D "PTO/pump valve" or Approved Equivalent. Vehicles equipped with hydraulic brakes shall have a dash mounted PTO switch and a stainless steel wire, vinyl covered cable to operate the hydraulic pump valve. The cable must be located accessibly, on the floor between the driver's door and the left front corner of the seat.
8.	A raised body indicator with a minimum 1-1/2 inches diameter blinking amber light on driver side of dash must be installed. The indicator shall function when the body is lifted off the sub frame, when the ignition key is on.
9.	Note: In the event that the above combinations present problems, it is the bidder's responsibility to offer solutions based on the newest product available to meet the using agency's needs.
<b>OTHER REQUIREMENTS:</b>	
A.	Electric roll-up dump body cover installed and ready for use. Tarp to be heavy-duty vinyl mesh, dark color only. Tarp system must include a direct drive gear motor assembly, underbody or side mount spring assembly and a control switch mounted inside the cab readily accessible to the driver. Arm assembly shall be constructed from steel tubing. All metal parts to be painted as necessary to match body. Aero Industries, Inc. Model 50, Donovan Enterprises, Inc. Model 5000 EL-D; Pioneer Model EDD 1500D; Roll-Rite Corp. Model RR503; or Approved Equivalent.
B.	All lights and reflectors shall be installed in shock-mounted recessed fixtures, in accordance with SAE/ICC Regulations.
C.	Body is to be painted with two (2) coats of rust-inhibiting primer and one (1) coat of finish paint. Finish paint is to be DuPont Centari or Approved Equivalent only. Body color is to match the lower portion of the truck cab. Vendor must consider optional paint schemes in the detailed truck specifications. Vendor is not required to finish paint the inside of the body, but a minimum of one (1) coat of primer must cover the entire inside of the body.
D.	Hoist is to be painted to match truck frame.
E.	A 100 percent parts and labor warranty covering all components of the bodies and hoists must be provided for a period of twelve (12) months with unlimited mileage.
<b>NOTES:</b>	
A.	The body specified herein is not intended to be a standard production body, however if the materials or workmanship used in a standard production body exceed these specifications in any way, and then said features of the standard production body shall apply.
B.	An electric backup alarm and mud flaps are included with all "base" units. Do not include price for backup alarm or mud flaps in body price.
C.	In order for a body to receive an Approved Equivalent rating, the manufacturer must have constructed a minimum of 200 units of the same size and type, as well as meeting all requirements of the detailed specifications.
D.	<b>THE STATE OF FLORIDA BASE VEHICLE SPECIFICATION IS NOT COMPLETE UNLESS IT IS USED IN CONJUNCTION WITH THE COMPLETE REQUIREMENTS, SPECIFICATIONS, TERMS, AND CONDITIONS.</b>

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