

SPECIFICATIONS

FOR

THE PURCHASE OF ONE (NEW) VACUUM/JET COMBINATION TRUCK AND TRADE IN ALLOWANCE FOR ONE (USED) VACUUM/JET COMBINATION TRUCK

Each bidder MUST annotate YES or NO per line item indicating whether or not your bid meets the minimum specifications described. If you mark NO, a detailed explanation and/or description of equivalent specification must be provided for each individual item.

Meets Minimum Specification
YES or **NO**

CHASSIS:

- | | | | |
|-----|------------------------------------------------------------|-------|-------|
| 1. | 2012 M2106V 4X2 Freightliner or Equal | _____ | _____ |
| 2. | 43,000 GVW 4 x 2/front axle 20,000 lbs. Rear 23,000 lbs. | _____ | _____ |
| 3. | AF-20.0-5 20,000# FL1 71.0 KPI/3.74 Drop Single Front Axle | _____ | _____ |
| 4. | RS-23-160 23,000# R-Series Single Rear Axle | _____ | _____ |
| 5. | W.B. 235 C.A. 169" A.F.75" | _____ | _____ |
| 6. | Rear axle and equipment: 5.63 Rear axle ratio | _____ | _____ |
| 7. | Spring Suspension – 1.00" Axle Spacer | _____ | _____ |
| 8. | Brake System: Air Brake Package | _____ | _____ |
| 9. | Air Dryer Mounted outboard on RH rail back of cab | _____ | _____ |
| 10. | 24 Inch integral front frame extension | _____ | _____ |
| 11. | Rear Mudflaps | _____ | _____ |
| 12. | Alliance Fuel Filter/Water Separator | _____ | _____ |
| 13. | 3-1/2 inch fender extensions | _____ | _____ |
| 14. | LH and RH grab handles | _____ | _____ |
| 15. | Single electric horn | _____ | _____ |

		Meets Minimum Specification	
		<u>YES</u> or <u>NO</u>	
16.	Dual West Coast molded-in color mirrors	_____	_____
17.	Bostrom Talladega 910 high back air suspension driver seat	_____	_____
18.	High back non suspension passenger seat with fore and aft adjustment	_____	_____
19.	AM/FM/WB Radio with front auxiliary input	_____	_____
20.	Dash Mounted Radio	_____	_____
21.	(2) Radio Speakers in Cab	_____	_____
22.	Extended Warranty: Towing Extended/Roadside Service Warranty One (1) Year/Unlimited Mileage	_____	_____
23.	Air Dryer – Bendix AD-9	_____	_____

CHASSIS ENGINE

24.	Side of Hood Air intake with firewall mounted Donaldson Air Cleaner	_____	_____
25.	2) Alliance Model 1131, Group 31, 12 Volt maintenance free 1850 CCA Threaded stud batteries	_____	_____
26.	Single Battery Box frame mounted LH side under cab	_____	_____
27.	Cummins 18.7 CFM Air Compressor with internal safety valve	_____	_____
28.	Air Compressor Discharge line	_____	_____
29.	Electronic Engine integral shutdown protection system	_____	_____
30.	RH outboard under step mounted horizontal after treatment system assembly	_____	_____
31.	Diesel engine, minimum 350 HP, Tier III, water-cooled, turbo-charged or blower mounted.	_____	_____
32.	Engine shall be enclosed to protect from the elements with access doors for easy maintenance and service.	_____	_____
33.	Top inlet with RH B-pillar mounted vertical tailpipe	_____	_____
34.	Engine after treatment device, automatic over the road regeneration and dash mounted regeneration request switch	_____	_____

**Meets Minimum Specification
YES or NO**

CAB/CHASSIS: (Continued)

- 35. Standard air conditioned cab _____
- 36. Standard operating gages and meters _____
- 37. Heater and defogger _____
- 38. Intermittent front rain wipers _____
- 39. West coast mirrors _____
- 40. Operator air ride seat and standard bench for passenger _____
- 41. Cab access grab handles on both sides of Cab _____
- 42. RH curved vertical tailpipe B-pillar mounted routed from step _____
- 43. 6 Gallon Diesel exhausted fluid tank _____
- 44. Aluminum after treatment device/muffler/tailpipe shield(s) _____
- 45. Automatic fan control without dash switch, non engine mounted _____
- 46. Cummins spin on fuel filter _____
- 47. Combination full flow/bypass oil filter _____
- 48. 1200 square inch aluminum radiator _____
- 49. 1350 adapter flange for front PTO provision _____
- 50. Delco 12V 38MT HD starter with integrated magnetic switch _____
- 51. All standard controls and accessories not listed shall be included _____

TRANSMISSION:

- 52. Allison 3,000 RDS automatic with PTO provision _____
- 53. Vehicle interface wiring with body builder connector mounted back
of cab _____
- 54. Electronic transmission customer access connector firewell mounted _____
- 55. (2) Customer installed Chelsea 277 series PTO'S _____
- 56. PTO mounting LH and RH sides of main transmission _____

Meets Minimum Specification
YES or NO

57. Water to oil transmission cooler, in radiator end tank _____

PAINT:

58. Minimum to mil primer shall be applied to body prior to painting. _____

59. Cab to be painted **WHITE W/ BLUE STRIPES** _____

60. Body color to be **BLUE W/ WHITE (CHEVERON) STRIPES** _____

FUEL TANK:

61. Minimum 80 gal. diesel fuel capacity _____

62. Tank shall have a lockable fuel cap _____

CHASSIS ELECTRICAL SYSTEM:

63. 12 volt accessory outlet in cab _____

64. 24V system with H/D alternator on secondary engine _____

65. H/Duty battery(s) on secondary engine _____

66. All DOT required lighting, safety reflectors and placards ,
and warning lights/alarms _____

DEBRIS BODY:

67. Debris body is to be constructed of minimum 3/16" ASTM
A242 Corten A Steel. _____

68. Debris body must be of the dump type with a minimum
9 cu. yd. usable capacity _____

69. Debris body shall have a dished rear door with hydraulic rear
door locks and hydraulic open and close mechanisms with 5
external locks operated by one cylinder with door grabber _____

70. Locking, unlocking, opening and closing of debris body door
shall be accomplished from one station, curbside,
approximately midway down the body. _____

**Meets Minimum Specification
YES or NO**

- 71. Dual steel weldments with stainless steel screen 8" x 28" each providing up to 1200 square inches of added filtration for the vacuum system shall be provided inside the debris tank. These weldments shall be removable and require no cutting or welding. _____
- 72. One manual T Lock shall be installed for operator safety. _____
- 73. Debris body shall have a load level indicator to indicate when the tank is loaded to capacity. _____
- 74. Automatic vacuum breaker assembly to be located inside debris body. _____
- 75. A full indication activates an automatic vacuum breaker shutdown system that completely shuts down 100 percent of the air flow. _____
- 76. This system is controlled/activated, at the front hose reel control system. _____
- 77. This system can be used for safety in the event suction must be Turned off due to an emergency. _____
- 78. Debris body shall have a wash down system with a minimum of six jets to sufficiently clean the tank. _____
- 79. There will be NO hydraulic components mounted inside the debris body. _____
- 80. Debris body door shall have a 6" butterfly valve with 10' of lay flat hose for removal of excess liquids. _____
- 81. Debris tank will have a non-prorated 5 year warranty minimum. Bidder to submit copy of warranty with their bid proposal. _____

WATER TANK:

- 82. Water tanks shall be made of non corrosive cross linked Polyethylene or Stainless Steel 1000 gallons minimum. _____
- 83. Water supply/tanks shall not rise with the dump body. _____
- 84. Water supply shall be located at or below the frame rails with skid plates to protect from damage . _____
- 85. Water tanks shall be cross connected with each other and have one curbside fill point. _____

Meets Minimum Specification
YES or NO

- 86. Water tanks shall come with 25' of 2 1/2" hydrant hose with with a Y-pattern strainer and hydrant wrench. _____
- 87. Water tank filler shall have air gap type backflow and siphon prevention. _____
- 88. A sight gauge shall be located in a way that it can be easily viewed from the operator station. _____
- 89. Water tanks shall have quick removal hatches for access to flush, fill or add chemicals to tank. _____
- 90. Water tanks will have a 10 year replacement warranty; bidder to supply copy of water tank warranty with their bid proposal. _____
- 91. Air purge system shall be supplied to purge residual water from water lines and pump. _____

WATER PUMP:

- 92. Water pump shall operate independently of the vacuum system and be power from the auxiliary engine. _____
- 93. Water pump shall be a triplex pump that does not require priming. _____
- 94. Water pump shall be engaged and disengaged at the operator station. _____
- 95. Controls for starting, stopping, increasing and decreasing the multi flow shall be mounted at the operator's station at the front of the vehicle. _____
- 96. A Y-strainer shall be located between the water supply and the water pump. _____
- 97. Water pump shall have an accumulator if needed for smooth flow for jetter and handgun system. _____
- 98. High pressure relief valves shall be provided for both high pressure system and handgun system. _____
- 99. Water pump shall deliver a minimum smooth continuous flow of 60 GPM at 3000 PSI. _____
- 100. Water pump shall have drain valves located to allow operator to completely drain the water pump to eliminate freeze damage _____

Meets Minimum Specification
YES or NO

- | | | | |
|------|------------------------------------------------------------------------------------------------------|-------|-------|
| 101. | Water pump shall be capable of running dry for 30 minutes. | _____ | _____ |
| 102. | Water pump drive system shall have a 5 year warranty minimum, excluding the water pump drive engine. | _____ | _____ |

HOSE REEL ASSEMBLY:

- | | | | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| 103. | Hose reel assembly will be articulating to the drivers side, and front mounted. | _____ | _____ |
| 104. | Hose reel footage counter easily readable from operator station | _____ | _____ |
| 105. | Hose reel assembly shall be affixed to permanently mounted brackets and be capable of pivoting out of the way for service access to main engine. | _____ | _____ |
| 106. | Hose reel shall have a capacity of 600' of 1" high pressure hose. 500' of hose on reel with a minimum burst pressure of 7500 PSI and a working pressure of 3000 PSI. | _____ | _____ |
| 107. | Hose reel shall have a hydraulically actuated outrigger leg. | _____ | _____ |
| 108. | Operator station will be located at the hose reel assembly and will include all boom functions, water pump on/off, debris body vacuum relief, chassis engine RPM, hose footage counter. | _____ | _____ |

HANDGUN ASSEMBLY:

- | | | | |
|------|------------------------------------------------------------------------------------------------------|-------|-------|
| 109. | A high pressure handgun hose will be provided on an automatically retractable hose reel. | _____ | _____ |
| 110. | Handgun will be supplied with 50' of ½" hose with quick disconnects. | _____ | _____ |
| 111. | Handgun shall operate at 20 GPM at 600 PSI. | _____ | _____ |
| 112. | Handgun will have replaceable nozzle tips, 12" extension, adjustable spray, and on/off hand control. | _____ | _____ |
| 113. | Handgun pressure relief valve set at 600 PSI shall be provided. | _____ | _____ |

WATER PUMP/AUXILIARY ENGINE:

- | | | | |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| 114. | Water pump shall be driven by a minimum 140 HP diesel engine, liquid cooled, heavy duty industrial engine with automatic shutdown for low oil pressure and high temperature. | _____ | _____ |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|

Meets Minimum Specification
YES or NO

- 115. The engine shall contain integrated liners and diagnostic fault monitoring system. _____
- 116. All gauges and control for the auxiliary engine shall be mounted at the front operator station. _____

VACUUM COMPRESSOR:

- 117. Vacuum system shall be a 3 stage centrifugal compressor with a minimum of 200" of vacuum. _____
- 118. The compressor shall be driven by the chassis engine via a closed loop hydrostatic system using a variable 160cc piston pump and motor. _____
- 119. The 160cc displacement pump shall provide the same vacuum performance at 30 percent lower engine rpm which shall reduce fuel consumption by as much as 40 percent. _____
- 120. The centrifugal compressor shaft shall extend through the compressor, shall have two high speed bearings, one on each end of the shaft. _____
- 121. This system shall include a heat exchanger to maintain the pump suction oil temp at 160 degree Fahrenheit max. _____
- 122. A centrifugal separator shall be located in the inlet chamber to the fans with a cleanout box with compressor quiet package. _____
- 123. Bidder to provide, in bid package, a drawing showing airflow thru the system and separator. _____
- 124. Bidder shall provide, with bid proposal a certified performance graph showing CFM, inches of negative water pressure and horsepower. _____
- 125. Vacuum system shall have a 5 year non-prorated warranty. Bidder to provide warranty information with their bid. _____

VACUUM PICKUP HOSE AND PIPE:

- 126. Vacuum pickup shall be 8" in diameter, front loading, attached at the front of the vehicle with 230 deg. rotation. _____
- 127. Vacuum pickup hose, boom and extension pipes shall be round. _____
- 128. The boom will be power by an electric over hydraulic means. _____

**Meets Minimum Specification
YES or NO**

- 129. The boom will be 6-way hydraulically controlled with up/down, right left, extend/retract. _____
- 130. Boom shall be controlled by a joystick at the operators station. _____
- 131. A pendant type remote with full boom control shall be included. _____
- 132. A wireless remote with full boom control water on/off, engine RPM, and vacuum breaker shall be included. _____
- 133. Upper debris tube will be constructed of anchored steel tube. The lift and swing will be accomplished by cylinder actuated means. _____
- 134. Boom will have a minimum of 180° swing. _____
- 135. Boom will have a minimum of 10' extension. _____
- 136. Boom shall have a minimum of 21' of reach off vehicle centerline. _____
- 137. Pipe extensions will provide enough reach to clean up to 30' in depth. _____
- 138. Clamps to connect all pipe extensions together and to boom. _____
- 139. All pipe extensions will be accessible from ground level and Stored in a lazy susan pipe storage rack. _____
- 140. All lubrication fittings will be at ground level _____
- 141. Bidder to provide a boom swing/work area chart with their bid package showing boom swing and work area with and without boom extended. _____

HYDRAULIC SYSTEM AND LUBRICATION:

- 142. Electrical system shall meet or exceed NEMA 4 standards. _____
- 143. Circuit breakers will be enclosed in a sealed panel. _____
- 144. All grease fittings for the different systems shall be serviceable from ground level. _____
- 145. A lubrication chart, permanent white vinyl, located midway down the chassis on the passenger side shall be provided. _____

		Meets Minimum Specification	
		<u>YES</u> or <u>NO</u>	
146.	2 ea plastic, weatherproof color lubrication charts shall be provided.	_____	_____
147.	Suction, return and filter lines for hydraulics will have hydraulic shutoff valves.	_____	_____
148.	All hydraulic hoses, couplings, and fittings shall be industrial grade and meet all temperature and pressure requirements.	_____	_____
149.	Hydraulic systems shall have a minimum of 55 gallon capacity.	_____	_____
150.	Hydraulic system will incorporate pressure relief valves and pressure gauges for troubleshooting and maintenance purposes	_____	_____

ACCESSORIES:

151.	A hose guide with 25' of nylon rope will be provided.	_____	_____
152.	Nozzle Storage Rack for 1" Nozzles.	_____	_____
153.	1 EA Chisel head nozzle, 1" 60 GPM.	_____	_____
154.	1 EA Penetrator type nozzle, 1" 60 GPM.	_____	_____
155.	1 EA. Little Bruce 5" Culvert Nozzle	_____	_____
156.	1 EA Grenade type nozzle, 1 " 60 GPM.	_____	_____
157.	One (1 ea) 96" full width behind the cab tool box shall be provided.	_____	_____
158.	Tool boxes on either side of chassis, bidder to provide tool box with nozzle rack, exact location and size with bid package.	_____	_____
159.	Spot lights installed on boom with light guards.	_____	_____
160.	Handheld spotlight, 12VDC with lighter type plug, minimum 500,000 candle power	_____	_____
161.	Air purge system	_____	_____
162.	Water pump off system with 3" minimum pump, 200 GPM capacity plumbed to front of vehicle for pumping off liquids from the debris tank.	_____	_____

OPERATOR CONTROL (S):

163.	Full set of controls for boom, auxiliary engine, water pump, hose reel at operator's station at front of vehicle.	_____	_____
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Meets Minimum Specification
YES or NO

164. 1 ea pendant type remote control and 1 ea. fully functional wireless remote control _____

SAFETY FEATURES:

165. Two (2 ea) heavy duty, amber strobe lights with guards; 1 mounted on top of operator cab and 1 mounted at rear on debris body. _____

166. Flashing light bar mounted on rear debris tank door with left, right, Center out, and flashing patterns minimum _____

167. Backup alarm _____

ATTACHMENTS/OTHER:

168. Heavy duty tow points at rear of vehicle. _____

169. Auxiliary Engine remote oil drain. _____

170. Water Pump remote oil drain. _____

WARRANTY:

171. Minimum One (1) year full machine warranty on the truck and the JetVac systems _____

172. Winning Bidder must be able to provide repair parts and repair technical support within a 48 hr period _____

173. In the event of a warranty breakdown the Winning Bidder will be responsible for transporting or the reimbursement of the transport cost for the transportation of the JetVac Truck to the designated repair facility. _____

MANUAL(S) AND TRAINING:

174. Provide 1 ea. complete sets of Operators, Maintenance/Service, and Parts Manuals upon delivery of machine _____

175. The Winning Bidder will provide maintenance and operator training on the JetVac Truck and and its systems by a factory trained representative who is thoroughly trained on the use and operation of the unit. The training will consist of no less than one (1) full day to be done at the final delivery location. This training must be accomplished within 10 working days after delivery of machine. _____

Meets Minimum Specification
YES or NO

176. Refresher and/or updated technology training shall be made available to the city when available. _____

177. The Winning Bidder will ensure that all service/technical bulletins, recall notices, and/or other service or maintenance information are provided for the life of the machine while under the ownership of the City of Gautier. _____

DELIVERY:

The Winning Bidder will deliver the equipment within 45 calendar days after receipt of Purchase Order. _____

GENERAL INFORMATION:

Equipment to be F.O.B . Department of Public Works facility, Gautier, MS 39553.

The City reserves the right to inspect all maintenance facilities and will take into consideration service/parts availability when awarding the bid.

Brochures along with warranty information are to accompany all bids.

Failure of Gautier Department of Public Works personnel to discover defects or omissions of specification required items during the acceptance inspection does not relieve the Winning Bidder from the responsibility for correcting the area of non-compliance found after delivery of the inspected machine and on prior or subsequent machines.

Nonresident contractors who bid must enclose a copy of their state's current law pertaining to that state's treatment of nonresident contractors and the local preference will be applied in evaluating the bid. Failure of the nonresident bidder to submit the above mentioned information may disqualify the bid.

The City's VACTOR 2110-36 Sewer Cleaning Machine which is to receive a trade in allowance as a part of this bid can be viewed at the office of Public Works located at 3305 Gautier-Vancleave Road, Gautier MS, Monday through Friday between 8:00 am and 4:00 pm, by appointment only.

BID FORM

FOR

**THE PURCHASE OF ONE (NEW) VACUUM/JET COMBINATION TRUCK
AND
TRADE IN ALLOWANCE FOR ONE (USED) VACUUM/JET COMBINATION TRUCK**

1. NEW VACUUM/JET COMBINATION TRUCK

BRAND MODEL# YEAR \$ _____

2. TRADE IN ALLOWANCE FOR ONE (1) VACTOR 2110-36 SEWER CLEANING
MACHINE, MOUNTED ON A 1998 FORD LT8501 CHASSIS

\$ _____

TOTAL BID

\$ _____

AUTHORIZED SIGNATURE TITLE DATE

COMPANY NAME

MAILING ADDRESS

_____, _____
CITY STATE ZIP

TELEPHONE NUMBER / _____ / _____
FAX NUMBER EMAIL ADDRESS

CITY PRIVILEGE TAX NUMBER

