

TOWN OF GRAY
BID REQUEST SPECIFICATIONS - HEAVY DUTY TRUCK

TERMS AND CONDITIONS OF SUBMITTAL OF BID

This request for bids is acceptable under the following conditions and terms that the acceptance of these is contingent solely on the approval of the Town Council, Town Manager and P.W.D.

**SPECIFICATIONS FOR SINGLE AXLE HEAVY DUTY TRUCK
CHASSIS/PLOW PACKAGE**

Sealed bids shall be received at the Gray Municipal Office until 10:00 AM.; Wednesday July 20, 2016, at which time the bids shall be publicly opened and read aloud.

Specifications may be obtained at the Public Works Director Office, 123 Shaker Road, Gray, Maine 04039.

**SPECIFICATIONS FOR TWO [1] 37,800 GVW SINGLE AXLE HEAVY DUTY
TRUCK CHASSIS/PLOW & Dump Body Package**

It is the intent and purpose of these specifications to classify and describe a standard production model: one [1] Heavy Duty Diesel powered 4X2 37,800 lb. GVWR Two [1] single axle cab and chassis truck.

These specifications are considered necessary to perform the work necessary assigned to municipal performance requirements. The manufacturer shall have produced this type of unit for a minimum period of at least three [3] years.

All equipment furnished under specifications shall be new, unused and the same as the manufacturer's current production model. Accessories not specifically identified herein but necessary to furnish a complete unit ready for use, shall be included. Unit shall conform to the best practice known to the body trade in design, quality of material workmanship. Assemblies, sub assemblies and component parts shall be standard interchangeable throughout the entire quantity of the unit as specified in the enclosed specifications.

**ANY SUBSTITUTIONS AND/OR MODIFICATIONS SHALL CLEARLY BE
IDENTIFIED ON THE ATTACHED BID SUBMISSION FORMS.**

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1. CAB INTERIOR

- 1.1. Standard interior trim;
- 1.2. Cigarette lighter opening only;
- 1.3. 35,000 BTU Heater with integral defroster (Including A/C)
- 1.4. Dome light with independent Hi/Lo switch;
- 1.5. Driver's side Bostrom 715E air suspension seat; passenger seat to be conventional form bucket type;
- 1.6. Sun Visors;
- 1.7. Duel rubber mats;
- 1.8. Storage box;
- 1.9. Power Windows; Both Doors
- 1.10. Insulated floor mats;
- 1.11. Max Head Height Available.

NOTE: DOGHOUSE SHALL NOT EXTEND MORE THAN 12" FROM THE FIREWALL INSIDE CAB

2. CAB OPERATIONAL

- 2.1. T.M.C. recommended instrument panel Including Tac;
- 2.2. Air pressure gauge;
- 2.3. Volt meter for batteries;
- 2.4. Alternator output gauge;
- 2.5. Fuel level gauge;
- 2.6. Engine oil pressure gauge;
- 2.7. Engine coolant temperature gauge;
- 2.8. Low air pressure warning light and air pressure alarm;
- 2.9. Key type starting, hand locking type on indicator;
- 2.10. Directional signal switch;
- 2.11. AM/FM Radio, dash mounted Cab Speakers;
- 2.12. Alarm warning system for high water temperature or low pressure [Kysor Alarm Stat];
- 2.13. Air inlet system restructure gauge dash mounted;
- 2.14. Tilt steering wheel;
- 2.15. Heavy duty hazard warning switch;
- 2.16. Flare kit;
- 2.17. Fire ext. mounted;
- 2.18. Electronic hour meter

3. CAB EXTERIOR

- 3.1. Safety glass windows tinted;
- 3.2. Read cab glass;

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- 3.3. Two [2] fixed arm and blade type windshield wipers, electric, two [2] speed and intermittent;
- 3.4. Windshield washer with five [5] quart reservoir;
- 3.5. Dual west cost bright finish mirrors with heavy duty stainless adjustable type extension [heated mirrors] (3) 8" min. spot mirrors; (1) Mounted on R/Front Fender
- 3.6. Halogen sealed beam headlamps;
- 3.7. Five [5] "ID" and clearance lamps SAE standard type side markers lamps and reflectors;
- 3.8. Front turn signals;
- 3.9. Stainless steel grab handles behind doors;
- 3.10. Cab mounted fixed front and rear; with stationary grill
- 3.11. Butterfly tilt type, access door with side access covers;
- 3.12. Air Horn single dual trumpet; W/Covers
- 3.13. PAINT: Clear Coat Fleet Match Green;

4. ENGINE

- 4.1. Diesel Engine; Minimum 330 horsepower; wet sleeve; Turbocharger all oil cooled;
- 4.2. Minimum horsepower 330 @ 2200 revolutions per minute;
- 4.3. Oil cooled;
- 4.4. Spicer coupler 1200 series on crankshaft, factory installed;
- 4.5. Magnetic crankcase;
- 4.6. Fan clutch [air or hydraulic operation NOT acceptable];
- 4.7. Fuel water separator; HEATED
- 4.8. Dry type air cleaner;
- 4.9. Electronic throttle
- 4.10. Power take off, engine front, includes adapter plate on engine;
- 4.11. Anti-freeze permanent to minus -30 degrees Fahrenheit;
- 4.12. 130 Ampere alternator (3) battery system; with disconnect switch 3000CA (min.)
- 4.13. Cold weather package With A/C
- 4.14. Engine Heater-1500 watt;
- 4.15. Silicone hose radiator, heater compressor;
- 4.16. 10' aluminized stainless steel stack and exhaust system; with aluminum exhaust shield (mounted to allow minimum back of cab interference)
- 4.17. Snow Valve, air innovation valve;

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5. CLUTCH

- 5.1. 15.5" Eaton-Fuller clutch 2-plate ceremetallic pull type w/clutch lube provisions.
- 5.2. Minimum input rating 125% of maximum available engine torque output;
- 5.3. Clutch slave cylinders not acceptable;

6. TRANSMISSION

- 6.1. Eaton 10 speed direct drive W synthetic oil lube;
- 6.2. Aluminum gear case not acceptable;
- 6.3. Magnetic drain plug;
- 6.4. Magnetic fill plug;

7. AXLE FRONT

- 7.1. Certified 20,800 lb. Multi leaf minimum, suspension system oil lubed;
- 7.2. Stem co oil seals W synthetic lubricant same rear;
- 7.3. Drive line as designated spicier;
- 7.4. 20,800 lb. Front suspension / must include shocks;
- 7.5. 7.5 Right front built up to except wing plow (No Airbag)

8. REAR AXLE

- 8.1. 23,000 lb. Arvin Meritor RS 23-186 (or equal) including magnet sump and drain plug;
- 8.2. 25,500 lb. Capacity rear suspension; multi leaf with helpers
- 8.3. Ratio = 4.56 axle ratio;
- 8.4. Synthetic Lubricate

9. TRAILER BRAKE & ELECTRICAL

- 9.1. 9.1 Trailer Brake to be located at end of frame (body company to determine final location)
- 9.2. 9.2 Electrical Connector to be located at end of frame (body company to determine final location)

10. FRAME

- 10.1. Reinforced, heavy duty, high performance; Single 7/16" (min.)
- 10.2. Section modulus 23.5 with resisting bending moment;
- 10.3. Frame: 110,000 PSI Frame heavy duty SAE 1027 Heat Treated Steel Dimension; (straight rail)
- 10.4. Wheel base overall shall be 177"
- 10.5. Cab to axle shall be 102"min. (exact dimension determined by body company)
- 10.6. Front bumper painted dark gray with tow hooks slots;
- 10.7. Aluminum fuel tank: one seventy [70] gallon tank; (min.)
- 10.8. Front mud flaps;
- 10.9. Front frame extension to except plow

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11. WHEELS

- 11.1. Aluminum Alloy wheels, 22.5 X 9.00 Accuride DCT or equal, front;
- 11.2. Aluminum Alloy wheels, 22.5 X 8.25 Accuride DCT or equal, rear;
- 11.3. Aluminum Alloy wheels, (1) 22.5 X 8.25 &(1) 22.5X 9.00 Accuride DCT or equal [2 Spare Wheels]

12. BRAKES AND LININGS

- 12.1. Full air ABS System;
- 12.2. Compressor-31 C.F. [min.] gear driven bendix type;
- 12.3. Air reservoir-2234 cu.in. [Min];
- 12.4. Front brakes 16 ½" X 6" [min.] to be of Easton S Cam type;
- 12.5. Air parking brake - spring actuated;
- 12.6. Mertor Wabco air dryer – 1200 UP or equal.
- 12.7. Brake lining shall contain no asbestos. Manufacturer will supply MSDS sheet for linings;
- 12.8. Backing plates for brakes on all axles;
- 12.9. Auto slack adjusters; Gunitite front/rear
- 12.10. 12.10 16.5" x 7" rear

13. STEERING

- 13.1. Hydraulic power assist system;
- 13.2. Tilt steering column;

14. 14. POWER TAKE-OFF

- 14.1. Front mount engine power take off to accept Spicer coupler;
- 14.2. Radiator will be able to accept P.T.O., shaft either through radiator under radiator;

15. TIRES

- 15.1. [Front] 315/80R 22.5[16ply.]
- 15.2. Radial tubeless, extra strength highway tread;
- 15.3. [Rear] 11R 22.5 G [14ply];
- 15.4. Radial tubeless, extra strength mud and snow tread;
- 15.5. 15.4(a) Dump Body/ Plow Package Specifications Attached
- 15.6. One Operator's Manual - Required at delivery;
- 15.7. One Set Of Service Manuals - Required at Delivery [Repair Manual];

THE TOWN OF GRAY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY BID & WILL REJECT ANY BID THAT DOES NOT CONTAIN THE REQUESTED DUMP BODY/PLOW PACKAGE SPECIFICATIONS ATTACHED