



**Request for Bids  
Single Axle Cab & Chassis  
Bid No.: B16-002**

**Purchasing Department  
73 Harlow Street  
Bangor, Maine 04401  
207-992-4282**

**Issue Date: June 30, 2015**

## **I. Introduction**

The City of Bangor requests bids for two (2) single axle cab and chassis that will be used to assemble dump trucks. The completed units will be used for construction work, plowing snow, and cleaning sewer basins. Model year 2016 preferred.

In order to expedite the assembly and delivery of this equipment, the City will accept an "off the lot" cab & chassis that complies with the bid specifications for axle, suspension, frame, and body strength.

## **II. General Information**

General information is available on the City's website at the following web address: [www.bangormaine.gov/bids/proposals](http://www.bangormaine.gov/bids/proposals). By submitting a response to this solicitation, the bidder accepts the responsibility for downloading, reading and bidding by the terms and conditions set forth in the City's "General Information for Vendors". All questions shall be directed in writing to [bids@bangormaine.gov](mailto:bids@bangormaine.gov).

## **III. Submission**

To be considered, return pages 3-19 of this Request for Bids in an envelope clearly marked **"Bid No.: B16-002: Single Axle Cab & Chassis" by 2:00 PM, Wednesday, June 22, 2015** to the Purchasing department, City Hall, 73 Harlow Street, Bangor, Maine 04401.

Bids may also be submitted via email by using the link at the top of this page or by sending to: [bids@bangormaine.gov](mailto:bids@bangormaine.gov). If emailing bid, please reference **"Bid No.: B16-002: Single Axle Cab & Chassis"** in the subject line. Bids will be publicly opened at the time stated above.

A tabulation of the bids received will be available after 3:00 PM on the date of opening. Bid results may be viewed by visiting the City's website at [www.bangormaine.gov/bids/proposals](http://www.bangormaine.gov/bids/proposals).

The City of Bangor reserves the right to reject any and all bids, to waive any informalities or defects in bids or to accept a higher cost bid if it is deemed to be in the best interest of the City of Bangor. The City also reserves the right to negotiate with the lowest responsive Bidder.

#### **IV. Questions**

Any questions must be directed in writing to [bids@bangormaine.gov](mailto:bids@bangormaine.gov) no later than 4:30 PM Wednesday, July 8, 2015.

The City will issue a response to any questions or inquiries submitted in writing by the date above, on or before 4:30 PM, Friday, July 10, 2015. The response will be in the form of an addendum, which will be available on the City's website.

#### **V. Award**

The bid award will be based on the following:

- Price of equipment offered.
- Quality and performance of equipment offered.
- Availability of equipment and parts.
- Prior history or experience with the Bidder and equipment (if no history or experience, reference will be requested).

#### **VI. Late Bids**

It is the responsibility of the Bidder(s) to see that their bids have sufficient time to be received by the Purchasing Department before the submittal deadline.

Any bid, portion of a bid, or unrequested bid revision received at the City of Bangor Purchasing Department after the time and date specified, will be return to the Bidder(s) unopened.

#### **VII. Withdrawal of Bids**

No Bidder may withdraw his/her bid for a period of ninety (90) days from the date of opening. All bids shall be subject to acceptance by the City during this period.

To withdraw a bid prior to the opening, the bidder shall request the withdrawal in writing. All costs associated with the withdrawal (i.e. mailing fees) will be borne by the Bidder.

## **VIII. Information for Bidders**

1. After most sections in this Request for Bids, a space is provided for the Bidder to answer whether they comply with the referenced section. Caution should be taken by the Bidder to ensure that all questions are answered in the spaces provided and that all information requested is provided.
2. Pages four (4) through twenty-one (21) of this requests must be completed and returned with all questions answered in order to be considered.
3. Any exception to the provisions in the specifications must be marked in the body of this document and itemized on a separate page titled "Exceptions", referenced by section number and paragraph, along with a detailed explanation of the exception.
4. The entire unit and all equipment must be thoroughly inspected, serviced and ready for use upon delivery. All work performed must meet established industry standards of quality to be acceptable. Any unacceptable work must be corrected before payment is issued.
5. All Federal and State taxes must be excluded from the bid price. A tax exemption certificate for the City of Bangor shall be furnished to the successful Bidder upon request.

**SPECIFICATIONS FOR  
SINGLE AXLE CAB & CHASSIS**

**I. UNIT:**

1. Heavy duty 6 wheel dump truck Cab & Chassis with G.V.W. of not less than 43,000 pounds; such as a International 7400SFA or Freightliner 108SD.

**II. WHEELBASE AND C.A.:**

1. CA shall be sufficient length to accommodate a 10 ft. (5-7 yd.) dump body. Chassis must also accomodate plow rigging and a Catch basin cleaner. Measurement should be 120" CA.
2. AF dimensions must allow for a minimum 12" of frame to extend past rear tires to facilitate mounting the dump body and brake controls with lighting adapters for trailer.

**Meets Spec. Yes\_\_\_\_\_ No \_\_\_\_\_**

**III. FRONT AXLE:**

1. 20,000 lb. minimum capacity I-Beam type, such as Meritor FL941or equal.
2. Suitable for extreme snowplow and dump truck service, 9500lb. Left spring and 10,500 LB spring on RF.
3. Oil lubricated and sealed wheel bearings with visible oil supply.
4. Front springs should be heavy-duty designed to support the plow and wing in travel position, under full ballast load with no appreciable sag or deflection on either side.
5. Spring mounted hardware and brackets shall be designed for extreme service.
6. Front axle should be the set-back type.
7. Must have air bag assist spring for Right side to aid spring deflection

**Meets Spec. Yes\_\_\_\_\_ No \_\_\_\_\_**

**IV. REAR AXLE:**

1. 23,000 lb. axle with locking wheel differential Meritor RS23-186 or approved equal.
2. Approximately 65 Mph at most economical Rpm in high gear.
3. Aluminum housings not acceptable.
4. Magnetic oil drain plug
3. Oil lubricated and sealed wheel bearings.
6. Rear axle ratio shall be 5.38 to one.
7. Driver controlled traction control

**Meets Spec. Yes\_\_\_\_\_ No \_\_\_\_\_**

**V. ENGINE:**

1. Automotive diesel, 4 cycle 300 Hp (minimum).
2. Caterpillar, Cummins, Navistar or approved equal.
3. Preferably a wet sleeve engine.
4. Turbocharged.
5. 860 lbs./ft. minimum torque output.
6. Screw on water filter.
  - a. with precharged conditioner
  - b. with factory installed shutoff valves.
7. Extreme service oil filtration system (no remote mount filter assembly will be accepted).
8. Magnetic oil drain plug.
9. Engine block heater 1,500 watt minimum 110 volt, receptacle with spring operated lid mounted on front of truck.

Meets Spec. Yes\_\_\_\_\_ No \_\_\_\_\_

**VI. TRANSMISSION:**

1. Allison MD 3000 RDS Automatic transmission with PTO provision.
2. PTO openings for mounted Hydraulic pump.
3. Magnetic oil plug.
4. Must have push-button controls mounted on dash with prognostics
5. Transmission oil check and fill with electronic oil level check

Meets Spec. Yes\_\_\_\_\_ No \_\_\_\_\_

**VII. DRIVELINE:**

1. Driveline shall be heavy duty and factory balanced.
2. Main Driveline shall use 17 series extended lube joints w/ half-round yokes.
3. Extended life U-joints are preferred and requested.

Meets Spec. Yes\_\_\_\_\_ No \_\_\_\_\_

**VIII. BRAKES:**

1. Dual air brake system with ABS ( such as Wabco 4 – channel system ) or equal.
2. Front brakes shall be 16 ½ x 6 cam type ( prefer “ Q” + style )
3. Rear brakes shall be 16 ½ x 7 cam type (prefer “ Q “ + style ) with two (2) 30/30 brake chambers on rear axles, with moisture – proof chambers.
4. All brake drums shall be outboard mounted cast drums.
5. Haldex Automatic Slack Adjustors or equal
7. All air tanks and resevoirs must be aluminum with pull drain cords..
8. Pull drains on each reservoir with loose end of the cable attached professionally in a location that is easily accessible to the operator.

9. Semi-trailer connections and breakaway valve should be mounted on rear most crossmember in such a way not to interfere with proper placement of lights, pintle hook or license plates,
10. Hand control valve (trolley valve) shall be mounted on the steering column. The brake control valve for trailer shall be mounted on the dash.
11. Wabco SS-120 Plus air dryer with integral heater and governor (frame mounted)

**Meets Spec. Yes**\_\_\_\_ **No** \_\_\_\_

**IX. REAR SPRINGS AND SUSPENSION:**

1. 26000 lb. spring capacity, minimum.
2. Must be leaf style rear springs.
3. Clearance between dual tires shall be 2" minimum. Clearance between inner dual tires and suspension system or brake chambers shall not be less than 2". This minimum clearance must be retained under all normal operating conditions under capacity loading. Local modifications will not be accepted. Special spacers or wheel components will not be accepted.
4. All hardware shall be designed for extreme services.

**Meets Spec. Yes**\_\_\_\_ **No** \_\_\_\_

**X. STEERING:**

1. Heavy duty design suitable for snowplow and dump truck service and for in town driving, such as TRW TAS65 or equal.
2. Power steering with replacable filter with large capacity resevoir.

**Meets Spec. Yes**\_\_\_\_ **No** \_\_\_\_

**XI. ELECTRICAL:**

1. 12 Volt Delcotron 160 amp. capacity alternator model number 28-SI or equal.
2. Heavy duty Delco Starter 12 volt, #38 Positork MT type with overcrank protection and full copper ground or equal.
3. Two 12 Volt batteries, minimum of 2250 CCA Group 31, maintenance free stud mounting type, must be mounted so not to interfere with plow mounting.
4. Enclosed battery compartment with proper ventilation to prevent corrosion.
5. Sealed beam halogen headlights.
6. All exterior wiring shall be salt resistant in suitable loom or conduit.
7. Manually operated master battery disconnect switch mounted on the battery box and readily accessible to the operator, prefer Cole-hersee model M284-02 or equal.
8. Sealed battery cable ends.
9. Battery cable corrosion resistor.
10. Separate fused 7-way semi-trailer socket mounted on rear most crossmember with trailer interrupter switch mounted on the dash.

11. Electronic features of manufacturer must be able to integrate with plow and sander requirements.

Meets Spec. Yes\_\_\_\_\_ No \_\_\_\_\_

## **XII. FRAME:**

1. One piece heavy duty reinforced high tensile heat treated steel , minimum 7/16” x 3 9/16”x 11 1/8”, 120,000 psi yield minimum. Straight channel frame rail. Special reinforcements shall be provided to prevent diamond shaping under extreme snowplowing conditions, including a cross member located behind cab and designed to transfer plow wing stresses to both longitudinal frame rails.
2. Bolted construction, designed for extreme service and use.
3. Fish plates will not be accepted.
4. Heavy duty gusseted cross members shall be provided. Extra crossmember behind cab

Meets Spec. Yes\_\_\_\_\_ No \_\_\_\_\_

## **XIII. TIRES & WHEELS**

1. Front tires will be 11R x 22.5 16-ply tubeless type such as Michelin XZA3+
2. Rear tires will be 11R x 22.5 14-ply tubeless traction type such as Michelin XDE M&S
3. Spare wheel and tire, front and rear ( one each ).
3. Both front and rear hubs must be cast iron Hub-piloted (ten – hole)
4. Heavy duty steel Accu-ride wheels shall be 22.5 x 8.25 Hub-pilot style on rear and 22.5 x 9.0 on front.

Meets Spec. Yes\_\_\_\_\_ No \_\_\_\_\_

## **XIV. FUEL SYSTEM:**

1. Fuel storage tank mounted on left side of truck, 60 gallons minimum.  
**(Fuel Tank must not protrude beyond rear of cab)**
2. Non skid step.w/ stainless straps
3. 12” road clearance minimum.
4. Fuel heater or approved equal, factory installed.
5. Fuel lines shall be the proper flexible wire braid type.
6. Tank shall be vented in such a manner to prevent fuel spillage if operating on a slope or on level ground with tank full and fuel warm.
7. Suitable mud flaps shall be installed to protect the fuel tank from road debris.
8. Shut-off valve shall be installed at fuel outlet.

Meets Spec. Yes\_\_\_\_\_ No \_\_\_\_\_

## **XV. COOLING SYSTEM:**

1. Radiator core and tanks shall be heavy duty design and construction.

2. Ample capacity for continuous high engine output under extreme temperatures and/or operating conditions.
3. Heavy duty mounting brackets and hardware.
4. Screw on water filter (time– release) with precharge and factory installed shut off valves.
5. Gates Blue – stripe type radiator and water hoses if available.
6. Extended life antifreeze to -34 degrees F.
7. Viscous driven Fan Clutch.

Meets Spec. Yes\_\_\_\_\_ No \_\_\_\_\_

**XVI. EXHAUST:**

1. Vertical exhaust designed and installed not to interfere with any customer installed accessories (i.e. snow plows, hydraulic tanks, wings, etc.).
2. Curved spout shall be provided.
3. Heavy duty mounting brackets, elbows, piping and expansion joints.
3. Shall keep noise to lowest practical level in accordance with Federal and State Regulations.
4. Aluminized muffler
5. All REGEN pieces shall be in spaces not to interfere with mounting of body and plow controls
6. DEF tank shall be mounted in close proximity to fuel tank.

Meets Spec. Yes\_\_\_\_\_ No \_\_\_\_\_

**XVII. FILTERS:**

1. Air filter shall be heavy duty dry type.
2. Option of drawing air from either under hood or from cab so not to clog filter with snow.
3. All filters must be located for ease of servicing.
4. All oil, fuel and water filters shall be disposable spin on type.

Meets Spec. Yes\_\_\_\_\_ No \_\_\_\_\_

**XVIII. CAB:**

1. It is the customer preference to have all LED Lighting.
2. Dome light shall have independent switch.
3. Heater shall be highest capacity available.
4. Automatic low oil pressure/high temperature/low coolant visual and audible warning system wired in such a way as not to be easily accessible to the operator and operational only when ignition is on.
5. Electric windshield washer.
6. Heavy duty 2-speed electric windshield wipers, minimum with time delay.
7. Dual sun visors.
8. Remote controlled heated mirrors with 6” chrome spot mirrors on each..
9. Cab grab handles right and left sides.

10. Seat belts- safety orange
11. Engine tachometer.
12. Driver's seat shall be air suspension high back cloth bucket seat with adjustable lumbar support, fore and aft adjustment, seat and back angle adjustment/passenger seat shall be conventional foam rubber bucket seat.
13. Instruments shall include, but not be limited to: Oil pressure gauge, water temperature, fuel gauge, brake warning light, low air pressure light and alarm, voltmeter, amp meter, air pressure gauge, dash mounted engine hour meter. All gauges shall be properly marked and illuminated.
14. Full coverage, insulated floormat.
15. Heavy duty closed cab all steel construction.
16. Hood and fender shall be one piece design, tilt forward type with factory installed side access panels to provide safe, easy, complete access to the engine compartment for daily service and periodic maintenance with full plow gear (including wing and post) installed.
17. Stationary grille is highly preferred to increase engine accessibility when plow hardware is attached.
18. Backup alarm 97dba
19. Fresh air intake for heater/defroster must be protected or designed and installed to prevent entrance of sand/salt.
20. AM-FM stereo w/ WB radio w/ Bluetooth and USB.. Additional CB hook-up required
21. Suitable heavy duty bumper must be supplied mounted on frame.
22. Horn.
23. Directional signals, non – cancelling type with motorized flasher.
24. Cab mounted 5 lb. fire extinguisher.
25. Steering column shall be both tilt and telescopic.
26. Power right window using dash control.
27. Exterior fibreglass visor.
28. Single auxiliary dash mounted defroster fan.
29. Interior and exterior thermometer
30. Electrically heated windshield

Meets Spec. Yes\_\_\_\_\_ No \_\_\_\_\_

**XIX. PAINT:**

1. Omaha Orange preferred but will accept an "off the lot" color. Wherever possible lead free paint is desired.
2. Chassis semi-gloss black enamel.
3. Cab interior to match exterior.

Meets Spec. Yes\_\_\_\_\_ No \_\_\_\_\_

**XX. MANUALS:**

1. Three (3) operator manuals.
2. One (1) line chart per unit.

**Any electronic software available for either parts or service related problems must accompany this vehicle and may be substituted for written material.**

1. All manuals or software should be delivered prior to acceptance of the final completed vehicle.
2. Chassis shall be completely serviced, tuned up, wheels balanced (front) and steering geometry adjusted prior to delivery.
3. Vehicles offered must comply with all applicable Federal and State of Maine Regulatory Standards. Certified GVWR MUST be furnished.
4. A computer analysis of the proposed engine, transmission, rear end combination which is being offered must be provided.
5. Wherever possible friction materials must be non-asbestos.
6. It is the responsibility of the chassis manufacturer to provide or reposition components to provide "clear frame" for installation of accessories or accessory equipment.
7. Vehicles must be fully operational and ready for service when delivered to the Motor Pool and meet all Federal and State Regulatory Standards.
8. Noise level at the operator's hearing zone must not exceed the applicable OSHA maximum amount with hours of exposure as specified in Table G-16 of Part 1910.95 and D2 of 1926.52. This sound level shall be an eight hour time weighted average in accordance with SAE Standards J1166, J919, J1174, and J1175 or whichever is applicable.
9. **There shall be computer software training for Technicians and Parts people provided at the City of Bangor Fleet Building in the amount of four (4) hours for each if necessary for both day and night shifts.**

**THIS VEHICLE WILL BECOME A COMPLETE SNOWPLOW VEHICLE WITH A PLOW, WING, AND CATCH BASIN DUMP BODY. ARRANGEMENTS MUST BE MADE AT A LATER DATE TO TRANSPORT THIS VEHICLE TO THE COMPLETING DEALER FOR FINISH WORK. A CHECK FOR FRONT END ALIGNMENT AFTER ALL EQUIPMENT HAS BEEN INSTALLED MUST BE PERFORMED BEFORE DELIVERY OF FINISHED VEHICLE. ALL WARRANTY DATES SHALL BEGIN UPON DATE OF FINISHED DELIVERY.**



**Bid Form**  
**Single Axle Cab & Chassis**  
**Bid No.: B16-002**

**Bid Deadline:**  
**2:00 PM, Wednesday**  
**July 22, 2015**

**Note: Pages 4 – 11 must be returned as part of bid submission. Please attach detailed explanation of each exception to the requested specifications. Failure to comply may result in disqualification.**

| Description  | Qty.                           | Unit | Unit Price | Total Price |
|--|--------------------------------|------|------------|-------------|
| <b>Single Axle Cab &amp; Chassis</b><br>Year: _____ Make: _____<br>Model: _____<br>Year: _____ Make: _____<br>Model: _____ | 2                              | EA   | \$ _____   | \$ _____    |
| <b>Total Bid Amount</b>  |                                |      |            | \$ _____    |
| Extended Power Train Warranty  | Length of Warranty _____ Years |      | \$ _____   |             |
| Address of where equipment service will be performed:  |                                |      |            |             |
| <i>Price must include all miscellaneous charges; no other charges will be accepted.</i>                                    |                                |      |            |             |

**Earliest Delivery:** \_\_\_\_\_ weeks after receipt of order.

|                          |  |              |  |
|--------------------------|--|--------------|--|
| <b>Business Name:</b>    |  |              |  |
| <b>Street or PO Box:</b> |  |              |  |
| <b>City, State, Zip:</b> |  |              |  |
| <b>Telephone Number:</b> |  |              |  |
| <b>Fax Number:</b>       |  |              |  |
| <b>Email Address:</b>    |  |              |  |
| <b>Contact Name:</b>     |  |              |  |
| <b>Title:</b>            |  | <b>Date:</b> |  |
| <b>Signature:</b>        |  | <b>Date:</b> |  |