

Kennebunkport, Maine

SPECIFICATIONS

TANDEM AXLE DUMP TRUCK

Public Works Department

Contract No. 2021-02

TOWN OF KENNEBUNKPORT

Lauri Smith, Town Manager

May 4, 2021

Public Works Department
105 Beachwood Ave
Kennebunkport, Maine 04046
(207) 985-4811
FAX (207) 985-1144

BID DUE DATE: Tuesday, June 15, 2021, 1:00 p.m.

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INVITATION TO BID

The Town of Kennebunkport, Maine will receive sealed bids at Kennebunkport Town Hall, 6 Elm Street, Kennebunkport, Maine until 1:00 p.m., Tuesday, June 15, 2021 for furnishing of a TANDEM AXLE DUMP TRUCK for the Public Works Department.

A complete set of the bid documents may be obtained from the Public Works Department, 6 Elm Street, (967-4243) at no charge. Bids shall be submitted in sealed envelopes with the name and address of the Bidder and clearly marked "TANDEM AXLE DUMP Bid" on the face of the envelope.

Bids shall be submitted on the provided forms in accordance with the Information for Bidders. No Bidder may withdraw a bid within thirty (30) days after opening thereof.

The Owner reserves the right to waive any informality in or to reject any and all bids.

Michael Claus, PE

Director PWD

GENERAL INFORMATION

SECTION 1

1.01 INFORMATION FOR BIDDERS

- A. Sealed unit price proposals will be received by the Town of Kennebunkport, Maine up until 1:00 p.m., Tuesday, June 15, 2021.
- B. Bids shall be submitted on the attached "Bid Proposal Form" and shall be signed by an authorized person indicating full knowledge and acceptance of the specifications. The sealed bid shall be submitted to the Public Works Director and the envelope shall be clearly marked with the name and address of the bidder and the specific contract for which the bid is being submitted.
- C. No bidder may withdraw his bid within thirty (30) days after June 15, 2021.
- D. Qualified bids will be deemed to be only bids from equipment manufacturer's or from authorized dealers of such manufacturers.
- E. Each Bidder shall indicate on the appropriate place on the Bid Proposal Form the manufacturer and product name for the equipment to be supplied under this bid. Literature describing the physical and performance characteristics of the equipment bid shall be attached and included with the bid. All such descriptive literature furnished shall be clearly marked (underline specific items in red or highlight the items) to indicate the specific equipment to be furnished under this bid (do not submit any brochures without first marking the item to be supplied if more than one selection or option is shown in the catalog). The Town, however, reserves the right to request additional information deemed necessary for proper evaluation of bids.
- F. Each Bidder shall fully complete and submit with the bid the attached "Detailed TANDEM AXLE DUMP TRUCK Specifications" form. Failure to complete and submit the attached form will be grounds for rejection of the bid.
- G. The firm submitting a bid will be held responsible to ensure the dump body, the vehicle chassis and running gear, and all controls are completely compatible. Failure to provide compatible equipment will result in the Town of Kennebunkport refusal to accept the truck.

1.02 BID COMPLIANCE

- A. The Town of Kennebunkport will regard all bids received as an agreement by the Bidder to conform to all items of these specifications. If the equipment offered differs from the provisions contained in this specification, such differences must be explained in detail, and the bid will receive careful consideration if such differences do not depart from the intent of this specification and are to the best interest of the Town.
- B. The Manufacturer's name and model designation must be shown on the bid form in the designated spaces, however, that information is not sufficient evidence that the bidder is taking exception to the detailed specification. If no exceptions or deviations are specifically shown and explained, equipment shall be furnished exactly as specified.

1.03 DELIVERY

- A. The TANDEM AXLE DUMP TRUCK shall be delivered as soon as possible, and estimated delivery may be considered in making the award. Delivery time shall be expressed on the bid proposal form in the space provided (in number of calendar days required to make delivery after receipt of a purchase order).
- B. The TANDEM AXLE DUMP TRUCK shall be delivered to the Public Works Department 36 Sea Road, Kennebunkport, Maine. The bidder shall be responsible for ensuring all required equipment and modifications, as necessary, have been made to the TANDEM AXLE DUMP TRUCK prior to delivery.

1.04 DELIVERY CONDITION

- A. The TANDEM AXLE DUMP TRUCK delivered shall be in strict accordance with these specifications. If the vehicle is delivered with deviations or improper servicing, the Bidder must arrange to have the necessary work done within five (5) business days after notification from the Town of Kennebunkport.
- B. Provide one (1) copy each of the Maintenance and Operational Manual and Parts List for the electrical, mechanical and hydraulic equipment furnished with the vehicle (See Detailed Specifications for further requirements).

1.05 TAX EXEMPTION

- A. The Town of Kennebunkport (a municipal government) is an exempt entity under law of the State of Maine and is, therefore, exempt from payment of the State of Maine sales or use tax on purchases made directly for its own use. These taxes are not to be included in the bid prices for any equipment, materials and supplies sold to the Town under this Contract.
- B. The Town of Kennebunkport is exempt from Federal Excise Tax (Federal ID # 01-6000221) and Federal Transportation Tax on all equipment, materials and supplies sold to the Town for its own use. These taxes are not to be included in the bid prices under this contract.

1.06 GUARANTEE

- A. The Bidder guarantees that the TANDEM AXLE DUMP TRUCK furnished under this bid is a new and unused product of regular manufacture.
- B. The decision of the Public Works Director as to reasonable compliance with these specifications and guarantee shall be final.
- C. The manufacturer's standard warranty shall apply to the vehicle and warranty service shall be gratis at any dealer's shop in Maine.
- D. The successful Bidder shall further guarantee the vehicle and all equipment furnished for a period of one (1) year from date of delivery. This guarantee shall include defective materials and workmanship. If, during this period, warranty repairs and/or parts replacement become necessary due to defective materials and/or workmanship, all labor and material to make satisfactory repair shall be furnished at no cost to the Town by the Bidder.

1.07 BASIS FOR AWARD

- A. The Town reserves the right to reject any and all bids. The Town will accept the bid most advantageous to the Town, not necessarily the lowest bid. Alternative quotations will be considered only when clearly explained. They will be considered only if the specifications are met and the alternatives are submitted as an alternative bid.
- B. Bids shall be submitted in a sealed envelope or package with the type of bid clearly indicated on the outside.
- C. The Town of Kennebunkport reserves the right to accept or reject any or all bids in whole or in part, to waive any formality and technicality in any bid and to accept any item or items in any bid. The Town reserves the right to accept or reject any or all bids as may best serve the interest of the Town.
- D. The base bid price quoted shall be the net amount and shall include all costs necessary to furnish and deliver the TANDEM AXLE DUMP TRUCK as required by these specifications.

1.08 PAYMENT

- A. When the TANDEM AXLE DUMP TRUCK is delivered, the Town of Kennebunkport will review and verify the request for payment, and if the vehicle is in compliance with these specifications, process the request. However, if poor workmanship and/or minor deviations exist, the Town may withhold up to 20% of the contract price upon delivery and delay payment of the balance until the Bidder has made all necessary corrections.
- B. The Town may withhold the full payment of the contract price if, in its opinion, the TANDEM AXLE DUMP TRUCK contains major deviations from the specifications.

- C. The Town of Kennebunkport will pay the amount due upon delivery acceptance, within thirty (30) days after receipt of an invoice.

1.09 SERVICE

- A. Service by an authorized dealer for the cab and chassis, dump body and plow shall be available within a 50 mile radius of the Town of Kennebunkport.
- B. Prior to delivery, the vehicle furnished shall be completely serviced by the Bidder or by an authorized dealer of the manufacturer. Service to include; lubrication, fluids, filters and all other checks and adjustments required for proper servicing of a new vehicle.
- C. Particular attention shall be given to door alignment, weather stripping hardware, paint condition, tagging of cooling system and proper operation of all hydraulic systems.
- D. It shall be the Bidder's responsibility to insure at the time of servicing that all components and accessories specified have been properly installed.
- E. It shall be the Bidder's responsibility to insure at the time of servicing and delivery that the vehicle is fully operational and will meet all the requirements of the State of Maine for vehicle operation on Federal, State or local ways.

1.10 BILL OF MATERIALS

- A. Two (2) copies of a bill of materials or line-setting ticket shall be furnished with the vehicle when delivered. The bill of materials shall list by part number, capacity, size or otherwise, all major components of the vehicle engine, frame, transmission, drive line, axles, alternator, storage battery, fuel tank, etc.). The bill of materials shall be at least as comprehensive as the equipment manufacturer's line-set ticket.
- B. Identification plates listing data specifically applicable to the truck, body, dump body, etc., shall be permanently and conspicuously installed on the appropriate piece of equipment. Plates shall include at least the model and serial number.

END OF GENERAL INFORMATION SECTION

Bid Proposal Form
Contract No. 2021-02
TANDEM AXLE DUMP TRUCK

SUBMIT TO: Kennebunkport Public Works Department
6 Elm St
Kennebunkport, Maine 04046

BID DATE: Tuesday, June 15, 2021, 1:00 p.m.

The undersigned hereby certifies he/she has examined and fully comprehends the requirements of these specifications and drawings for the above project and offers to furnish all labor, materials, equipment, supplies and related to do the work as detailed for the following lump sum price.

Base Bid \$ _____
(In Numbers)
_____ Dollars
(In Words)

Specify Vehicle _____

Make/Model Number: _____

Specify Body
Manufacture and
Model Number: _____

Name/Location of
Authorized Dealer: _____

Estimated Delivery Time _____ Days (See Section 1.03)

NAME OF FIRM: _____

ADDRESS: _____

AUTHORIZED SIGNATURE: _____

PRINT NAME AND TITLE: _____

TELEPHONE: _____ **DATE:** _____

Required Attachments: 1. Completed Detailed Specifications
2. Descriptive Literature (marked up)

DETAILED EQUIPMENT SPECIFICATIONS

SECTION 3

TANDEM AXLE DUMP TRUCK

These specifications describe a new 2022 model year diesel engine truck cab and chassis with a dump body, plow assembly and hydraulics as specified below. The Pre-approved 2022 truck models are Western Star 4700SB, Western Star 49X and International HX620SBA with Cummins engine. Specifications are based on these models and available components. Other equivalent models will be considered. It is up to the bidder to disclose and show any changes from component items in this specification that are different for components items noted in this specification. The specifications for the completed unit may not mention standard features, however these features must be included if they are part of the regular product and/or are required to make a finished and ready to work product. Each bidder shall complete the following section supplying the information requested for the vehicle bid. Failure to complete this section may be considered grounds for rejecting the bid.

TANDEM AXLE DUMP TRUCK: Year: _____

Make: _____

Model _____

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
----------------------------------	-------------------------	-------------------------

3.00 General

- a. Gross Vehicle Weight Rating 66,000 lbs _____ lb.
- b. Standard Equipment Yes _____ Yes _____ No
- c. Specified Tandem Axle Truck Dimensions are shown below in Figure 1. Bidder to note on bid submittal any changes to dimensions in truck to be supplied.

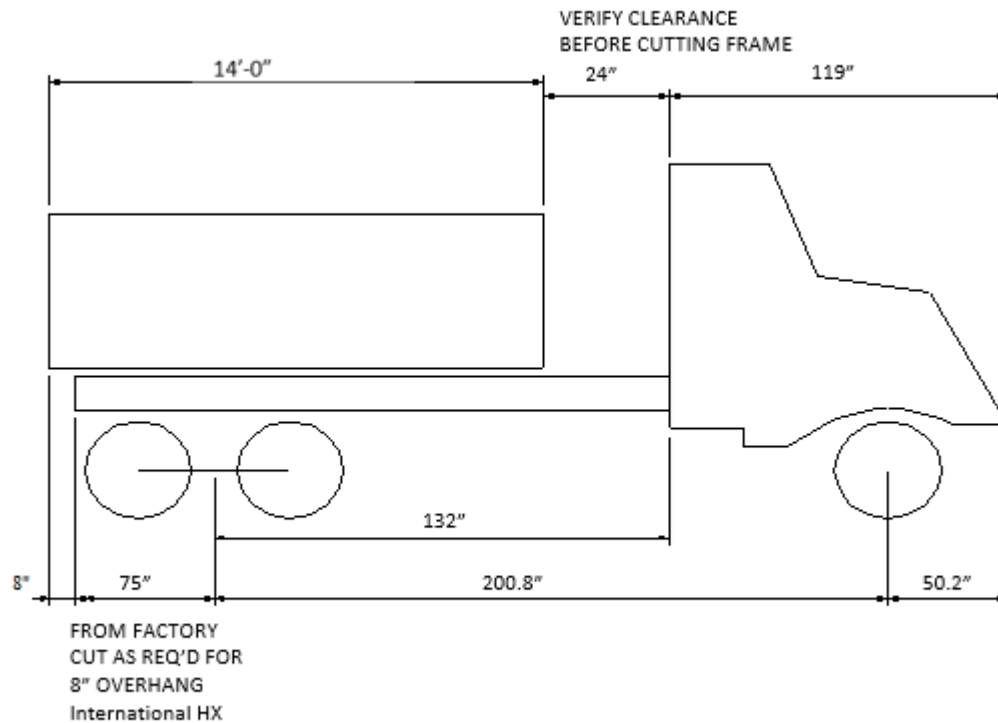


Figure 1. Typical Tandem Axle Truck Dimensions with Set Back Front Axle

- | | | | | |
|----|--|------|-------|--------------|
| d. | Rear Axle – gear ratio | 6.14 | _____ | Proposed |
| e. | Failure by the successful bidder to submit dimensional changes and gear ratio information prior to ordering truck from manufacturer will be cause for rejection of truck at no cost to Kennebunkport Public Works. | | | |
| f. | Paint 2 coats base color,
2 coats clear polyurethane | Yes | _____ | Yes _____ No |
| g. | Color | | | |
| | (1) Cab, single color,
White to match existing fleet | Yes | _____ | Yes _____ No |
| | (2) Chassis, single color
Standard Black Enamel | Yes | _____ | Yes _____ No |

3.01 Frame

- | | | | | |
|----|---|-----|-------|--------------|
| a. | Frame Rails -
Heat Treated Alloy Steel | | | |
| | (1) 120,000 psi yield | Yes | _____ | Yes _____ No |

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
(2) 11.125 x 3.52 x 0.437"	Specify	_____
b. Frame Reinforcement - C Channel		
(1) 10.813 x3.892 x .312"	Yes	_____ Yes _____ No
As required by manufacture		
(2) Heat Treated Alloy Steel		
(120,000 psi yield)	Yes	_____ Yes _____ No
c. Resisting Bending Moment	3,806,400 in-lb	_____ Specify
d. Section Modulus	31.72 in ³	_____ Specify
e. Huck Bolt Frame Fasteners	Yes	_____ Yes _____ No
f. 2 front tow hooks	Yes	_____ Yes _____ No
g. Front cross member with mounting flange for hydraulic pump w/ integral front frame extension 20" in front of grille	Yes	_____ Yes _____ No
3.02 Front Axle		
a. I-Beam Type Axle Capacity	20,000 lbs.	_____ lbs.
c. Springs, Front		
20,000 lb. capacity	Yes	_____ Yes _____ No
d. Front Springs Parabolic, Taper-Leaf w/ shock absorbers	Yes	_____ Yes _____ No
e. Wing Side Auxiliary Air Bag		
Front Springs – Driver Controlled	Yes	_____ Yes _____ No
f. Spring Pins w/ rubber bushings		
Maintenance Free	Yes	_____ Yes _____ No
g. Axle Location Set Back	Yes	_____ Yes _____ No
3.03 Brakes		
a. Air dual system brakes for Straight Truck Application	Yes	_____ Yes _____ No
b. Front Brakes, Air Cam S-Cam	16.5" x 6.0" (includes 24 sq. in. Brake Chambers)	_____ x _____
c. Rear Brakes, Air Cam S-Cam	16.5" x 7.0" (MGM TR3030 Long Stroke	

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
	Brake Chamber and HD Spring Activated Parking Brake)	_____ Specify
d. Air Dryer w/Heater Bendix AD-9 (or equivalent), Standard Location	Yes	_____ Yes _____ No
e. Parking Brake Valve, Combination Valve for Tractor and Trailer	Yes	_____ Yes _____ No
f. trailer connections, 4 wheel w/ hand control valve and tractor connection valve, for straight trucks	Yes	_____ Yes _____ No
g. Air Compressor, 18.7 CFM Cummins Single Cylinder or equivalent	Yes	_____ Yes _____ No
h. Slack Adjusters, Front Automatic	Rockwell/Meritor	_____ Specify
i. Slack Adjusters, Rear Automatic	Rockwell/Meritor	_____ Specify
j. Anti Lock Brake System	Bendix Four Channel	_____ Specify
k. Dust Shields	Yes	_____ Yes _____ No
l. Dual Air tank location	Between Frame Rails	_____ Yes _____ No
3.04 Steering		
a. Steering Column - Tilting and Telescoping	Yes	_____ Yes _____ No
b. Steering Gear	Shepard M-100/M-80 Dual Power or TRW THP-60 With RCH45 Auxiliary Gear	_____ Specify
c. Steering Wheel 4-Spoke, 18" diameter	Yes	_____ Yes _____ No

3.05 Exhaust System

- | | | |
|--|-----|--------------------|
| a. Right Outboard Under Step Horizontal Aftertreatment
With Stack Mount Vertical to Right Hand B-Pillar | Yes | _____ Yes _____ No |
| b. Frame mounted exhaust, right side | Yes | _____ Yes _____ No |
| d. Bidder has verified required
frame clearances for muffler,
tail pipe and stack with plow
and wing equipment supplier | Yes | _____ Yes _____ No |

3.06 Electrical Systems

- | | | |
|---|----------------------------|--------------------|
| a. 12 Volt System
Standard Equipment | Yes | _____ Yes _____ No |
| b. Fully multiplexed electrical system
with an electronic system controller
w/ Data Link Connector for in Cab
Vehicle Programming & Diagnostics | Yes | _____ Yes _____ No |
| c. Cigar Lighter | Yes | _____ Yes _____ No |
| d. Alternator, Heavy Duty, brushless
12 Volt; 185 amp capacity, pad
mount, remote voltage sensor | Leece Neville
BLP 2361H | Specify _____ |
| e. Circuit Breakers, Auto Reset
(Main Panel) SAE Type III, with
Trip Indicators, Replaces all Fuses | Yes | _____ Yes _____ No |
| f. Running Lights - Daytime
for United States | Yes | _____ Yes _____ No |
| g. 2-way radio accommodation package
wired to Center Headboard Console
20 amp fuse protection
Ignition wire w/ 5 amp fuse,
Wire ends Heat Shrink &
10 ft. coil at Base Harness | Yes | _____ Yes _____ No |
| h. Remote engine speed control. | Yes | _____ Yes _____ No |
| i. Cab-floor access with Removable
plug for running wiring into the cab. | Yes | _____ Yes _____ No |

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
j. Roof light accommodation package with in-dash switches and pre wired connectors in the roof panel	Yes	_____ Yes _____ No
k. LED Roof Marker Lamps	Yes	_____ Yes _____ No
l. Plow light accommodation package with wiring & 3 ft. auxiliary harness for the plow lights to the front of the frame and logic for disabling	Yes	_____ Yes _____ No
m. Remote power module with six factory-installed switches with body builder connectors mounted on the chassis for electrical devices.	Yes	_____ Yes _____ No
n. Extra taillight wiring option with 8 foot extra tail light harness for relocation of the taillights to point other than on the rear of the frame.	Yes	_____ Yes _____ No
o. Low Oil Pressure/High Coolant Temperature; light and Audible Alarm	Yes	_____ Yes _____ No
p. Electronic Back-up Alarm	Yes	_____ Yes _____ No
q. Wiring shall be stranded type & conform to SAE J1128	Yes	_____ Yes _____ No
r. All circuits shall be properly fused for wire size & components; no splices or junctions between junction box and components	Yes	_____ Yes _____ No
s. Individual wire shall be identified by number and color code	Yes	_____ Yes _____ No
t. All stop, direction & clearance lights shall be mounted as specified by the Federal Motor Vehicle Safety Standard	Yes	_____ Yes _____ No
u. All wiring shall be flame-proof in polytube and lamps shall be vapor proof, shock mount type and shall form a sealed system	Yes	_____ Yes _____ No
v. Horn, Air, Frame Mounted	Grover	Specify: _____

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
w. Trailer Connection Socket, 7-Way; mounted @ Rear of Frame.	Yes	_____ Yes _____ No
x. Second Power Source, Cigar Type	Yes	_____ Yes _____ No
y. Battery System, Maintenance Free, Three (3) 12-volt 2775 CCA, Total In Cab Mount Under Passenger Seat		
	International/Wester Star Specify: _____	
z. Battery disconnect switch	Yes	_____ Yes _____ No
aa. Radio, AM/FM/Weatherband Stereo with Aux input, Clock; includes Multiple (4) Co-axial Speakers	International/Western Star Specify: _____	

3.07 Front End

a. Spring Loaded Hood Tilt Assist	Yes	_____ Yes _____ No
b. Stationary Grille w/ Bug Screen mounted behind grille	Yes	_____ Yes _____ No
c. Hood service access hatches	Yes	_____ Yes _____ No
d. Cross-over air intake	Yes	_____ Yes _____ No
e. Grille / Radiator Stone Guard and headlight shrouds	Chrome Finish	_____ Yes _____ No

3.08 Engine

a1. Engine, Diesel (wet sleeved) Engine Displacement Vocational Service	Specify Model: 12 Liter Yes	Cummins X12 _____ Liter _____ Yes _____ No
a2. Engine, Diesel (wet sleeved) Engine Displacement Vocational Service	Specify Model: 15 Liter Yes	Cummins X15 _____ Liter _____ Yes _____ No
b1. EPA 21 455 Horsepower @ 1900 RPM; 1550 lb-ft Torque @ 1000 RPM;	Yes	Specify _____ HP @ _____ RPM _____ lb-ft @ _____ RPM

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
b2. EPA 21 450 Horsepower @ 1900 RPM; 1650 lb-ft Torque @ 900 RPM;	Yes	Specify _____ HP @ _____ RPM _____ lb-ft @ _____ RPM
c. 4 valves per cylinder		_____ valves / cylinder
d. Premium (Red) Anti-Freeze Extended Life w/ coolant filter	- 40°F	_____ Yes _____ No _____ °F
e. Cruise Control, Electronic	Yes	_____ Yes _____ No
f. Governor, Electronic	Yes	_____ Yes _____ No
g. Radiator – Welded Aluminum Front to Back Cross Flow System, 1084 sq. in., 866 sq. in. Single Charge Air Cooler (CAC)	Yes	Specify: _____
h. Deaeration System w/ clear/fill surge tank	Yes	Specify: _____
i. Starting Motor	Delco-Remy 39MT	_____ Yes _____ No
j. Throttle, Hand Control Electronic Instrument Panel Mounted	Yes	Specify: _____
k. Fan Drive, Automatic On/Off Type Control; w/normally closed Temperature Control	Horton Drivemaster	_____ Specify
l. Fan, Nylon	Borg Warner	_____ Specify
m. Factory installed provision for front mounted Direct Drive Pump	Yes	_____ Yes _____ No
n. Dash Mounted Air Restriction Gauge	Yes	_____ Yes _____ No
o. Dual-element air cleaner w/ snow valve	Yes	_____ Yes _____ No
p. Radiator hose material Ethylene Propylene Diene Monomer (EPDM) w/ an Aramid fiber reinforcement layer	Yes	_____ Yes _____ No
q. Oil Pan	Plastic Or Powder Coat Steel	_____ Specify

3.09 Transmission

- | | | | |
|----|---|-------------------------------------|--------------------|
| a. | Automatic, Wide Ratio; 6 Speed,
w/ PTO Provision, less Retarder
5 TH Gen. Controls, Double Overdrive
On/Off Highway, Oil Level Sensor | Allison
4500 RDS P | _____ Specify |
| b. | Allison RDS Spare Input / Output | yes | _____ Yes _____ No |
| c. | Transmission Oil | Castrol TranSynd | _____ Specify |
| d. | Transmission Oil
Pan Magnet in Oil Pan | yes | _____ Yes _____ No |
| e. | Auxiliary Cooler
for transmission | Modine Water to Oil | _____ Specify |
| f. | Transmission Oil Filter
Mounted on Transmission | yes | _____ Yes _____ No |
| g. | Remote Oil Filter | Yes | _____ Yes _____ No |
| h. | Transmission Oil Temperature
Gauge | Yes | _____ Yes _____ No |
| i. | Shift Type | Allison Dash Mounted
Push Button | _____ Yes _____ No |
| j. | Transmission TCM | Inside Cab | _____ Yes _____ No |
| k. | Primary Shift Control | Allison S1 Performance | _____ Yes _____ No |
| l. | Secondary Shift Control | Allison Fixed | _____ Yes _____ No |

3.10 Rear Axle & Suspensions

- | | | | |
|----|---|--------------------------------|--------------------|
| a. | Tandem Single Reduction rear axle
46,000 lbs capacity, lube pump | Meritor RT-46-164P
or Equal | _____ Specify |
| b. | Four (4) Spring Brake Chambers | Yes | _____ Yes _____ No |
| c. | Rear Suspension - Tandem
Type 54" Axle Spacing;
46,000 lbs capacity | Hendrickson
HMX-460-54 | _____ Yes _____ No |
| d. | Driver Controlled Traction Lock
(Both Axles) | Yes | _____ Yes _____ No |
| e. | Power Divider Lock Electric over Air,
cab control w/ indicator light | Yes | _____ Yes _____ No |

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
f. TA Rear Axle Drain Plug (2) – Magnetic	Yes	_____ Yes _____ No
3.11 Fuel Tanks		
a. Fuel Tank - top draw, D-Style Aluminum, 70 U.S. Gal. with steps; mounted left side under cab	Yes Capacity	_____ Yes _____ No _____ U.S. Gal.
b. Fuel / Water Separator Fuel Water Separator with 12VDC heater and Water in Fuel sensor —	Davco Fuel Pro 382 or Alliance	_____ Specify
c. Fuel Cooler Mounted in Front of Cooling Module	Yes	_____ Yes _____ No
3.12 Cab		
a. Cab, Conventional	Material Type	_____
119" BBC or 110" BBC	Specify	_____ in.
Air Mount Suspension Cab	Yes	_____ Yes _____ No
b. Glass, All Windows Tinted, Operating Vent Windows	Yes	_____ Yes _____ No
c. Premium interior trim	Yes	_____ Yes _____ No
d. Color Pearl Gray		_____ Specify
e. Mirrors - Two (2) Rectangular, Brackets Breakaway Type, Heads & Brackets, 16 x 7 Size, Heating Elements & Controls Separate Heated Convex Both Sides	West Coast Premium Style	_____ Specify
g. Gauge Cluster, English with English Electronic Speedometer with Tachometer	Yes	_____ Yes _____ No
h. Hour meter, Electronic; mounted in Cluster	Yes	_____ Yes _____ No
i. LED Backlight for switches	Yes	_____ Yes _____ No

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
j. Windshield Wipers, 2-Speed & Variable Intermittent Setting, Electric	Yes	_____ Yes _____ No
k. Seat, Driver: Seats Incorporated Legacy HD Supplier Systems Part Number Extended Description	188122MW1163 SEAT-LEGACY HD HB 4W AIR LUMBAR 2T BLACK/BROWN DURA LEATHER	
	Seats Incorporated; Legacy HD Series	_____ _____ _____ Specify
l. Seat, Passenger: Stationary, High Back with Battery Box	National or equal	_____ _____ Specify
m. Seat Belt, 3-Point, lap and shoulder belt type	Yes	_____ Specify
n. Exterior Sun Visor	Yes	_____ Yes _____ No
o. Dual Interior Sun Visors	Yes	_____ Yes _____ No
p. Interior Cab Lights	Yes	_____ Yes _____ No
q. Heater with Defroster	Yes	_____ Yes _____ No
r. Air Conditioning w/ a/c recirculation switch	Yes	_____ Yes _____ No
s. Hood liner insulation w/ double firewall insulation	Yes	_____ Yes _____ No
t. Left & Right Hand Electric Window	Yes	_____ Yes _____ No
u. Silencer Package for Cab	Yes	_____ Yes _____ No
v. Rubber Fender Extensions	Yes	_____ Yes _____ No
w. Windshield, internally heated, single piece	Yes	_____ Yes _____ No

3.13 Wheels and Tires

- a. Front Disc; 22.5" 10 Stud
(285.75 mm Bolt Circle),

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
Hub Piloted, Steel Hubs, White Painted Steel, 9.00 DC Rims	Accuride	_____ Yes _____ No
b. Rear Dual Disc; 22.5" 10 Stud (285.75 mm Bolt Circle), Hub Piloted, Steel Hubs, White, Powder Coat Paint, Steel, 8.25 DC Rims	Accuride	_____ Yes _____ No
c. Wheel Seals, Front	Oil-Lubricated Wheel Bearings	_____ Specify
d. Front Tires, tubeless (2 each)	315/80R 22.5 – Load Range L Michelin XLine Energy Z	_____ Specify
e. Rear Tires, tubeless (8 each)	11R22.5 - Load Range H Michelin XDN2	_____ Specify
f. Spare Rims (1 front & 1 rear) to match above specifications	Yes	_____ Yes _____ No
3.14 Accessories		
a. Fire Extinguisher (Dry Chemical)	10 lb.	_____ lb.
b. Digital Manuals all on CD:		
Supply one operator manual	Yes	_____ Yes _____ No
Supply one shop maintenance manual	Yes	_____ Yes _____ No
Supply one electrical wiring diagram	Yes	_____ Yes _____ No
Supply one hydraulic piping diagram and parts manual	Yes	_____ Yes _____ No
Supply one shop drawing of vehicle frame	Yes	_____ Yes _____ No
Supply one engine service manual	Yes	_____ Yes _____ No
Supply one engine wiring diagram	Yes	_____ Yes _____ No
c. Flag & Flare Kit	Yes	_____ Yes _____ No
d. First Aid Kit	Yes	_____ Yes _____ No

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
e. Rear Mud Flaps/Anti-Sail Front & Back of Rear Axles	Yes	_____ Yes _____ No
f. 25 Ton Swivel Style Pintle Hook & Mounting Plate; centerline mounted – 29" above ground	Yes	_____ Yes _____ No
g. Air trailer connections plumbed to rear w/ 7 way light plug	Yes	_____ Yes _____ No
h. Glad Hand and Air Hose Kit	International/Western Star	_____ Specify
i. Supply and Install Tandem Wheel Cover Minimizer MIN4020 in Black	Yes	_____ Yes _____ No

3.15 Hydraulics

a. Front mounted pump for plow, sanding, and dump hoist; continuous duty	Cassappa Load Sense / Rexroth Load Sense Hydraulic Pump 7 - Load Sense Valves	_____ Specify _____ Yes _____ No
b. Reservoir	40 gal	_____ Specify
c. Pump Capacity	36 gpm @ 2000 rpm	_____ Specify
d. Lines routed & properly supported to provide maximum service life	Yes	_____ Yes _____ No
e. High Pressure stainless steel hydraulic lines to front and rear designed to withstand four times system pressure	Yes	_____ Yes _____ No
f. Hydraulic Hose Ends, two piece crimped style	Yes	_____ Yes _____ No
g. Quick Disconnect Hydraulic Couplings at Front and Rear of truck for sander, plow and wing	Yes	_____ Yes _____ No
h. Provide Coupling Dust Caps on Retaining Chains	Yes	_____ Yes _____ No
i. In cab operated Controls Quadco Cable Controls	Yes	_____ Yes _____ No

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
j. In-line spin-on hydraulic filter	10 micron max.	_____ Specify
3.16 Dump Body		
a. Standard Dump Body	14' Hardox	_____ Specify
b. All Standard Body Equipment Included	Yes	_____ Yes _____ No
c. Crossmemberless design	Yes	_____ Yes _____ No
d. Quartz model with no vertical bracing(brake formed radius sides)	Yes	_____ Yes _____ No
e. Floor and tailgate 3/16" AR 450 Hardox steel (205,000 psi)	Yes	_____ Yes _____ No
f. Sides and front 3/16" AR 450 Hardox steel (205,000 psi)	Yes	_____ Yes _____ No
g. 1/4" 44W long sills		
h. 42" sides and 54" air operated tailgate	Yes	_____ Yes _____ No
i. 24" cabshield	Yes	_____ Yes _____ No
j. Mailhot front telescopic hoist, single acting, Model M120-5.5-3	Yes	_____ Yes _____ No
k. Lights in Rear Corner Posts	Yes	_____ Yes _____ No
l. Fold Up Ladder	Yes	_____ Yes _____ No
m. In Cab Body Up Indicator	Yes	_____ Yes _____ No
n. Side Board Slots	Yes	_____ Yes _____ No
3.17 Dump Body Cover		
a. Dump Cover: Electric covering system fully automatic to be operated from in cab	Mesh Tarp Donovan Bullet 7000 w/ aluminum arms	_____ Yes _____ No
b. Wind deflector	Yes	_____ Yes _____ No
3.18 Material Spreader		
a. A v-box material spreader capable of hauling and spreading free flowing	Swenson EV-100 SS or equivalent.	_____ Specify

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
granular materials from a width of four (4) to forty (40) feet.		
b. This unit will consist of a stainless steel body, discharge/feed conveyor, spinner disc, power drive, and all components necessary to make a complete operating unit.	Yes	_____ Yes _____ No
c. This unit shall be factory ready to accept servo controls.	Yes	_____ Yes _____ No
d. All stainless steel in this unit shall be corrosion resistant, non-magnetic stainless steel.	Yes	_____ Yes _____ No
e. Bidders must submit with their bid complete specifications on the unit they propose to furnish.		
f. Spreader shall be constructed of 12 ga stainless steel with a double crimped top edge forming a 2" section for greater rigidity.	Yes	_____ Yes _____ No
g. The hopper body length shall not be less than 13 feet with two feet of longitudinal overhung for supporting the spinner assembly.	Yes	_____ Yes _____ No
h. The hopper shall not be more than 82" outside width.	Yes	_____ Yes _____ No
i. The capacity of the hopper shall be 9.9 cubic yards water level full.	Yes	_____ Yes _____ No
j. The body sides shall be 12 ga stainless steel and have not less than a forty five degree pitch to ensure free flow of material to the conveyor.	Yes	_____ Yes _____ No
k. The body ends shall be 12ga stainless steel.		
l. The body longitudinals shall be manufactured of 10 gauge stainless steel and be slotted for easy gearbox/driveshaft removal.	Yes	_____ Yes _____ No
m. The channel cross sills shall be 7 ga stainless steel that ties the lower edge of the longitudinal to each side support.	Yes	_____ Yes _____ No
n. These cross supports shall be wide enough to allow the hopper box to be mounted on various width truck frames or slide into a dump box.	Yes	_____ Yes _____ No

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
o. A 4" x 6" formed stainless steel bolt in box beam will be elevated 3" above the top edge of the hopper, providing a longitudinal brace and hinge point for the top screens.	Yes	_____ Yes _____ No
p. There shall be a 3" formed stainless channel welded under the H beam to each hopper side for additional side support.	Yes	_____ Yes _____ No
q. The body and conveyor shall be electrically welded into a rugged solid unit.	Yes	_____ Yes _____ No
r. A 10 ga stainless steel 12" x 18" stainless steel feedgate and ruler shall be provided at the rear of the hopper to allow for accurate discharge.	Yes	_____ Yes _____ No
s. The screw type jack with stainless steel crank shall be provided and be self locking.	Yes	_____ Yes _____ No
t. There shall be 12 ga stainless steel formed side supports that extend the full angle height spaced on 2' centers	Yes	_____ Yes _____ No
u. A heavy duty stainless steel lift hook shall be provided at each corner.	Yes	_____ Yes _____ No
v. The rear endplate shall be reinforced inside and supported outside to give it maximum strength.	Yes	_____ Yes _____ No
w. All stainless steel joints shall be welded with stainless steel welding wire.	Yes	_____ Yes _____ No
x. All sub-assemblies shall be secured with stainless steel hardware.	Yes	_____ Yes _____ No
y. A mounting kit shall be provided to safely secure the hopper to the truck.	Yes	_____ Yes _____ No
z. Conveyor system shall be of the barflight type running longitudinally with the body feeding material to the feedgate opening.	Yes	_____ Yes _____ No
aa. The overall conveyor width shall not be less than 24".	Yes	_____ Yes _____ No

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
bb. To protect the chain link strands, the top edge of the longitudinals shall be formed down over the strands exposing only the drag chain bar to the material. Yes		_____ Yes _____ No
cc. The conveyor floor shall be manufactured of 10 ga stainless steel, be of the flat design, replaceable with rollover edges. Yes		_____ Yes _____ No
dd. The conveyor floor shall be supported on 12 ga stainless steel cross angles spaced approximately 12" apart. Yes		_____ Yes _____ No
ee. The gearbox shall have hardened and ground bronze gears mounted on a 1 1/2" diameter drive shaft and supported on tapered roller bearings. Yes		_____ Yes _____ No
ff. These gears shall be machine cut and mounted in anti-friction sealed bearings and running in oil. Yes		_____ Yes _____ No
gg. The gearbox ratio shall be 25:1 Yes		_____ Yes _____ No
hh. The drive sprockets shall be 6 tooth drop forged steel sprockets keyed to the 1 1/2" diameter drive shaft. Yes		_____ Yes _____ No
ii. The idler sprockets shall be 6 tooth drop forged steel, one sprocket welded and one sprocket floating on 1 1/4" diameter idler shaft. Yes		_____ Yes _____ No
jj. Both the conveyor shafts shall have heavy duty, dust sealed, self aligning ball bearings equipped with grease fittings. Yes		_____ Yes _____ No
kk. A heavy duty spring loaded idler adjustment assembly shall provide approximately 4" of adjustment for proper conveyor chain tension. Yes		_____ Yes _____ No
ll. Conveyor chain shall be heat treated 2.25" pitch self cleaning pintle type with 7/16" pins, w/ 21,000 lbs tensile strength per strand Yes		_____ Yes _____ No
mm. This chain shall utilize 1/4" x 1 1/2" x 18 3/4" crossbars welded on both the top and the bottom to every other link making an overall width of 22". Yes		_____ Yes _____ No
nn. The cross bars will be positioned on approximately 4.5" centers. Yes		_____ Yes _____ No

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
oo. The Spinner Assembly distributor disc shall be 22" in diameter, made of Polymer.		Yes_____ Yes _____ No
pp. This disc shall be mounted on a cast iron hub connected directly to the hydraulic motor.	Yes	_____ Yes _____ No
qq. The material shall be guided from the conveyor to the distribution disc by means of one 10 ga stainless steel adjustable, internal, material deflector.	Yes	_____ Yes _____ No
rr. The entire spinner assembly shall be not less than 12 ga stainless steel, adjustable in height to accommodate slip in v-box	Yes	_____ Yes _____ No.
ss. There shall be a front fixed shield, and three adjustable baffles, which are removable without the use of tools.	Yes	_____ Yes _____ No
tt. The conveyor chain shall be driven through the worm drive gearbox by a low speed, high torque " orbital type" hydraulic motor.	Yes	_____ Yes _____ No
uu. This motor shall be directly coupled to the gearbox and protected from the elements by the housing.	Yes	_____ Yes _____ No
vv. The gearbox shall have provision for a servo sensor integral with the drive shaft.	Yes	_____ Yes _____ No
ww. The top screens shall be constructed of 3/8" steel rods welded to form a 2.5" square mesh, which is framed by a combination of 1/4" x 1 1/2" flat steel and 2" angle iron with the edge supports reinforced by 1/4" x 1" flat bars.	Yes	_____ Yes _____ No
xx. Top screens shall be removable and use the " Drop and Lock" type hinge.	Yes	_____ Yes _____ No
yy. All stainless steel metal shall be left unpainted. Carbon steel components shall be chemically cleaned and coated with a lead free rust inhibitive primer & painted with 2 coats lead free black automotive enamel.	Yes	_____ Yes _____ No
zz. Leg stand Kit for sander (drive out style)	Yes	_____ Yes _____ No

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
aaa. Leg stand kit constructed of 4 x 3 x 1/4" Tubular steel	Yes	_____ Yes _____ No
bbb. Cross members will be C4 x 5.4	Yes	_____ Yes _____ No
ccc. Fixed rear legs with vertical adjustment	Yes	_____ Yes _____ No
ddd. Front legs to fold up in frame – with locks	Yes	_____ Yes _____ No
eee. Two 5" steel front guide rollers	Yes	_____ Yes _____ No
fff. Leg Stand steel components shall be chemically cleaned and coated with a lead free rust inhibitive primer & painted with 2 coats lead free black automotive enamel.	Yes	_____ Yes _____ No

3.19 Plow Gear

- | | | |
|--|------------------------|--------------------|
| a. Provide full specifications and pictures illustrating details of reversible funnel model being bid. Provide specifications on front post, other braces and supports, rear attachment, plow harness, hydraulic cylinders, push arms, hydraulic lines, front mounted pump, tilt hitch, quick detachable hitch and any other attachments needed for complete assembly. | | |
| b. Universal quick disconnect front hitch with 4-inch front cylinders and full power hydraulic system with in-cab controls, control valves | American Or Equivalent | _____ Specify |
| c. High Lift Patrol Wing Unit, Hydraulically Operated 48-inch Shelving Capability | American Or Equivalent | _____ Specify |
| | Yes | _____ Yes _____ No |
| d. Cylinder Arms | Yes | _____ Yes _____ No |
| e. Front Mounted Pump | Yes | _____ Yes _____ No |
| f. Full LED Heated Plow Lights with individual switch. | Yes | _____ Yes _____ No |
| g. Wing Working Light LED | Yes | _____ Yes _____ No |
| h. Spinner Light LED | Yes | _____ Yes _____ No |

3.20 Plow

- | | | |
|---|----------------------------------|--------------------|
| a. 11' Power Reverse Steel Funnel Trip Edge Plow | American Or Equivalent | _____ Specify |
| b. Plow Height | 28" Intake 56" Discharge minimum | _____ Specify |
| c. One (1) - 11' Cutting Edge 3/4" x 6" carbide steel | Yes | _____ Yes _____ No |

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
d. One (1) - 11' Cover Edge 5/8" x 6" gr. 1090 carbon steel	Yes	_____ Yes _____ No
e. Highway Punch hole pattern	Yes	_____ Yes _____ No

3.21 Wing

a. 10' wing	American Or Equivalent	_____ Specify
b. Moldboard Thickness	3/16" steel	_____ Specify
c. One (1) - 10' Cutting Edge 3/4" x 6" carbide steel	Yes	_____ Yes _____ No
d. One (1) - 10' Cover Edge 5/8" x 6" gr. 1090 carbon steel	Yes	_____ Yes _____ No
e. Highway Punch hole pattern	Yes	_____ Yes _____ No

3.22 Spreader – Liquid / Granular Controls

a. Provide and install complete set-up for Spreader – Liquid / Granular Control with Ground fully operational Speed Sander Control Unit,	Muncie MESP Spreader Controls	_____ Specify
b. Pre-Wetting System (2 tanks) 180 gallons, Mounted under Spreader w/ electric pump	Micro Track Control	_____ Specify
c. 2" dia. Banjo Coupling for liquid filling	Yes	_____ Yes _____ No
d. All fittings w/ Banjo couplings	Yes	_____ Yes _____ No
e. Manufactured of linear low density polyethylene	Yes	_____ Yes _____ No
f. 2 – 90 gallon tanks	Yes	_____ Yes _____ No
g. PVC bulkhead style fittings	Yes	_____ Yes _____ No
h. Designed to mount on sides of full size Swenson v-box spreaders	Yes	_____ Yes _____ No
i. Configured to nest between the spreader side supports	Yes	_____ Yes _____ No
j. Multiple internal baffles to provide positive stops for forward and rearward movement of the tank	Yes	_____ Yes _____ No
k. Cab mounted variable speed controller adjusts the output of unit and to start and stop the spray pump	Swenson Or Equivalent	_____ Specify

<i>Specification Description</i>	<i>Minimum Required</i>	<i>Bidder to Supply</i>
l. Controller is equipped with in-cab audible alarm and low system pressure indicator light	Yes	_____ Yes _____ No
m. Weather resistant polyethylene enclosure to protect the pump assembly	Yes	_____ Yes _____ No
n. Two variable orifice rubber nozzles provided to evenly treat granular material as it falls onto the spinner disc	Yes	_____ Yes _____ No
o. In line filter.		_____ Yes _____ No

3.23 Light System

- | | | |
|---|-----|--------------------|
| a. 4 – ECCO #6770A Strobes - Front and side each corner of top of cab protector mounted on steel plate w/ wiring and control for strobes; | Yes | _____ Yes _____ No |
| b. Rear mounting oval sealed lightheads; lighthead recessed in post, Oval light head lenses, 7" x 3", with amber strobe, white back up light, red brake/tail/turn signal, all LED | Yes | _____ Yes _____ No |
| c. All light system wiring with thermoplastic rubber cables 14 gauge conductors and waterproof connectors | Yes | _____ Yes _____ No |
| e. All lights DOT Spec, with front and rear strobes on the same dash mounted switch. | Yes | _____ Yes _____ No |

END OF SECTION

BID LIST - TANDEM AXLE DUMP TRUCK

<p>HP Fairfield ATTN: Travis Baker Green St. Skowhegan, ME 04976 (207) 474-9836 travisbaker@hpfairfield.com</p>	<p>Viking Cives ATTN: Tim Ireland 40 Coles Crossing Sidney, ME 04330 (207) 547-3339 tireland@vikingcives.com</p>
<p>O'Connor Western Star ATTN: Patrick Flatley 299 Warren Ave. Portland, ME 04103 (888) 343-5415 Patrick.flatley@oconnormaine.com</p>	<p>Freightliner of Maine ATTN: Mike Bean 10 Terminal Street Westbrook, Maine 04092 (800) 492-0601 mbean@flmaine.com</p>
<p>Allegiance Trucks ATTN: Richard Morrison 110 Gray Road Falmouth, ME 04105 (207) 797-8080 Richardmorrison@pntc.net</p>	<p>Daigle & Houghton INC ATTN: Jason Lamprecht 571 Coldbrook Rd Hermon, Maine 04401 (207)-941-9600 jlamprecht@daigleandhoughton.com</p>
<p>New England Kenworth ATTN: Pat Murphy 42 Wallace Avenue South Portland, ME 04106 (207)-775-6328 Patrick.murphy@newenglandkw.com</p>	