



November 6, 2013

**ADDENDUM #1
NWRFP-13-50
Construction of a Tandem Axle Dump Truck for
Road Work & Snow Removal**

This addendum modifies the Request for Proposal only as noted:

APPENDIX B

Replace existing Appendix B with the revised Appendix B attached below.

END OF ADDENDUM #1

Please acknowledge this addendum in your Proposal.

Yours truly,

Ron Gidda, C.P.P.
Purchasing and Inventory Supervisor



APPENDIX B

FLUID CAPACITY PLATE

A permanently mounted plate shall be installed. It shall identify the quantity and type of the following fluids used in the vehicle:

Engine Oil	Power Steering Fluid
Engine Coolant	Chassis Transmission Fluid
Drive Axle(s) lubrication Fluid	Front tire pressure cold
Pump Transmission Fluid	Rear tire pressure cold
Pump Primer Fluid	Air Compressor system lubricant
Air Conditioning Lubrication	Generator system lubricant (if applicable)
Air Conditioning Refrigerant	Hydraulic Fluid

ELECTRICAL WIRING-BODY

A Multiplexed wiring harness shall be provided for all electrical circuits of the body. All body wiring shall be number and color coded for ease of identification. Electrical connectors shall be of the crimp type. The wiring shall be permanently color coded to identify wire function. Wires shall be permanently heat ink embossed with both number and function codes. The function codes shall be the "descriptive" name of the circuit served. The number code shall be the exact purpose of that circuit. This number code shall be completely referenced in a detailed wiring schematic provided with the vehicle.

ELECTRICAL WIRING and DIAGRAMS

Two (2) complete as built wiring diagrams of the apparatus body and how it is tied to the chassis and all added components will be supplied to the fleet department. Wiring shall be color coded and function labeled on every wire. Supply all details of switches, breakers, panel box, etc. All wiring shall be incased in loom to protect the wiring from damage.

DIAGNOSTIC INTERFACE CONNECTOR

The chassis shall be supplied with a vehicle diagnostics wiring interface under the cab dash. The diagnostic cable and attachments shall be supplied by the vendor.



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Spec. #	Description	Required by Corporation	State Yes if you conform, State No with detail
	Year	Current production model year Cab and Chassis model	State
	Wheelbase and G.V.W.R.	210"-220" approximate wheel base. 66,000lbs (30,000kgs) approximate GVWR Cab to Axle 140" approximately Truck and body manufacturers to ensure chassis meets all requirements for mounting 16.5' dump box, hydraulic plumbing, 10' under body plow, hoist, tailgate high lift and existing City of New Westminster sander.	State
	Frame	Double rail "C" channel reinforced full length with 3800000 in-lbs maximum (RBM) resisting bending moment, 120,000ksi for GVW rating of 66,000lbs. 1/4" C-Channel inner frame reinforcement. (2) Two frame mounted front tow hooks shall be provided. Standard weight engine cross member, mid-ship cross members and rearmost cross member. Heavy duty rear suspension cross members. Back of frame flush with rearmost tires include tow apron but no trailer hitch or wiring. Rear frame overhang range 70" – 80". 12"-14" front bumper with license bracket. Chassis to have a corrosion resistant primer then painted black.	State
	Transmission	Automatic Allison 4500 RDS 6 speed transmission or equivalent with auto neutral, constant drive PTO provisions (Parker or Muncie) and prognostics (prefer Muncie hot shift). Push button shifter pad. Standard Ratio for engine and transmission specified and for mountainous terrain. Must use synthetic transmission fluid "Transynd". Must be able to maintain 110km/hr on highway. Frame mounted H/D water / oil transmission cooler.	State:



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Spec. #	Description	Required by Corporation	State Yes if you conform, State No with detail
	<p>Engine</p> <p>2010 EPA Carb NOX and particulates</p>	<p>The City of New Westminster is committed to reducing “greenhouse gases” and exhaust emissions. Therefore engine and transmission selection will take into account the following:</p> <p>Fuel consumption rating: CO₂ emissions & idle CO₂ emissions in % of exhaust gas flow: NMH (non-methane hydrocarbons) plus NOX: Must meet or exceed 2010 EPA/CARB/GHG14 certification without the use of carbon credits for 2013-2014 model years.</p> <p>Tier 4 diesel emissions if possible. Must meet or exceed all current emission standards for clean idle.</p> <p>Diesel Powered Turbo-charged min. 400 HP 1400ft/lb torque. Preferably Cummins, Detroit or Pac-10 engines. Must be able to ascend an eight percent grade at 50km/hr with full load.</p> <p>Automatic on-road regen and dash mount regen request switch.</p> <p>If necessary mounting of exhaust after treatment system horizontally under cab preferred, with right side exhaust stack vertical discharge. DPF, muffler, pipes and shields shall all be stainless steel construction if possible.</p> <p>Minimum 20L (100% fill) D.E.F. tank mounted on left side behind cab if required.</p> <p>Electronic engine integral shutdown protection system.</p> <p>Fuel Water Separator, with change indicator, and water in fuel sensor, preferably “Racor” style.</p> <p>Must be equipped with either a engine compression brake (Jake brake), multi-position exhaust brake or a transmission retarder.</p> <p>Remote air filter with restriction gauge indicator on dash.</p> <p>Electric switched engine cooling fan.</p> <p>Magnetic drain plugs, for oil pan, tranny and differentials.</p> <p>Block heater if available.</p> <p>Requires engine hour meter</p>	<p>State</p>
	<p>Cooling System</p>	<p>Heavy-duty Cooling, c/w permanent type antifreeze to -35o</p> <p>Heavy-duty aluminum radiator min 1000sq/in with surge tank all silicone hoses and constant tension hose clamps.</p> <p>Radiator drain valve.</p>	<p>State</p>



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Spec. #	Description	Required by Corporation	State Yes if you conform, State No with detail
	Steering	H/D power assisted L/H drive requires dual power steering gears. Power steering with smallest possible turning radius Prefer set back front axle "I" beam design. Min 4L power steering reservoir. Oil / air power steering cooler. Grease fittings on all tie rods, drag links and kingpins.	State: State:
	Air Brakes	Meritor or Wabco air brake system with Anti-lock braking capacity. Full air brake "S" cam type (Q-plus) with double anchor, backing plates, auto slack adjusters with brake stroke indicators. Front Brakes 16.5" X 6". Non-asbestos brake linings. Rear brakes 16.5" X 7". Non-asbestos brake linings. Air Compressor min 18.7 CFM capacity with safety valve. Discharge line, Teflon hose with stainless steel braid to air dryer. Dash mounted Yellow park brake control knob. 2 rear long stroke rear wheel parking brake chambers. Equipped with spin-on air dryer "Bendix / Wabco or equivalent with heater and drain valve, frame mounted and easily accessible. Must have an easily accessible air drain manifold both tanks will be routed to the manifold. All drains to be ball valve "petcock" style to be drained nightly. Airlines to be "synflex" or equivalent nylon type tubing, color coded for ease of serviceability, and securely routed. Must meet SAE J-1402 specs at articulation points.	State: State optional brake rotor and pad design if available.
	Differentials and Suspension	Front flat-leaf springs and drop single front axle as required for GVWR approx 20,000lbs. Vented front hub caps with window, center and side plugs for oil hubs preferably Stemco. Rear-H/D springs as required for GVWR approx 46,000lbs. Pre-set bearing iron front and rear hubs. Shock Absorbers-H/D front and rear; Driver controlled both rear traction differentials. (1) Inter-axle lock valve, (1) Driver controlled diff-lock forward rear axle valve, and (1) Rear-rear axle valve. Indicator lights for each inter-axle lock-out switch. Dual rear axle temperature gages in dash. Synthetic rear axle fluid. Must be equipped fore / aft torque rods.	State: State axle ratio:



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Spec. #	Description	Required by Corporation	State Yes if you conform, State No with detail
	Wheels/Tires	Wheels: Aluminum rim design 22.5" X 12.25" fronts, Alum rim design 22.5" X 8.25" rears. Hub piloted Wheel guards on rear are required, "nylon gasket" Tires: Rear 11R22.5 min 14ply. Fronts 425/65 R22.5 20ply. Manufacturer recommended for application	State front tire options for max weight capacity:
	Alternator Starter and Batteries	Alternator brushless – 12V, 160 AMP Minimum. Starter 12v with thermal over-crank protection. Three (3) glass mat group 31, 12v maintenance free threaded stud batteries minimum 2,750 CCA. Batteries shall be connected in parallel using a bus bar system rather than cables. Manual battery switch or night switch located L/S. Batteries to be located under passenger seat with plastic battery cover and vented to the outside or behind cab conveniently located for service. Wire ground return for battery cables with additional frame ground return. Standard battery jumper start studs located near starter.	State:
	Hydraulic and Sander System	To be equipped with SSC6100 MPJC3 Can electronic control system with 7" LCD, from Drive Products. Controller to be arm rest style with 3 miniature joysticks. Request Muncie PTO with Parker/Muncie/or Hydro-Leduc load sense piston pump must provide sufficient G.P.M. and pressure to run hoist, high lift tail gate, sander with pre-wet and belly plow. Valves shall be Force add-a-fold 4020 valves with enclosure to control all hydraulic functions. Unit to be plumbed to allow all operations from the cab either centrally mounted between seats or on center arm rest joystick style. To include air operated tarp and tailgate locks. All hydraulic pipes to be stainless steel if possible, securely mounted to avoid chaffing. All hydraulic hoses to be color coded, protectively wrapped and securely mounted to avoid chaffing. To include approx 35gal hydraulic tank with sight level gage, suction screen and in tank return filter.	State:



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Spec. #	Description	Required by Corporation	State Yes if you conform, State No with detail
	<p>Lights wiring and accessories</p>	<p>Exterior – must meet Federal and Provincial Motor Vehicle regulations. Must be equipped with daytime running lights, fog lamps, and five (5) roof mounted clearance lights. Rear brake, turn and marker lights to be integral to dump box include one each front of box side markers. Additional set of brake, turn, park and back-up lights to be installed under rear of dump box. All lighting to be LED “exclude headlamps and fog lamps”. Require-self canceling turn signals & 4 way hazard lights, preferably integral to one switch for headlights, turn signals, hazards and wipers. Dome-light in cab Require two fully rotational amber strobe lamps, mounted on cab protecting box extension. Cab marker light switch with separate headlight switch. All wiring to be color coded or circuit number identifiable. All wiring to be bundled in protective loom or conduit, conveniently routed inside frame rails and gussets. All clamps to be rubber-lined. All exterior connectors to be weather-packed seal design. Electrical sander control wiring to be located left side behind cab, must not extend to rear of box. Manufacturer to supply two (2) sets of complete wiring schematics and body builder extension schematics for both electrical and hydraulic systems. Electrical panel to be conveniently located inside cab using resettable circuit breakers and blade style fuses where necessary. All added electrical circuits must be either soldered and heat shrunk or crimped and heat shrunk, no exceptions. No scotch-lock type connectors will be accepted.</p>	<p>State:</p>



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Spec. #	Description	Required by Corporation	State Yes if you conform, State No with detail
	Cab cont.	Five (5) complete sets of keys. Matched ignition to door lock. Installation of 2-way radio "radio to be provided by City of New Westminster". Cruise control system. Storage in doors and overhead. Cab steps shall be offset with non-slip grips and protected with powder coated paint. Dual roof mounted air horns with shields. Dual electric horns. Lower right side door window with Fresnel lens. Forward roof mounted console, and right side glove box in dash. Grey or black interior color. Two cup holders. Back lit switches. Vinyl floor mats. AM/FM/CD radio with Bluetooth capability. One 300L approx. aluminum fuel tank mounted to clear under body plow in full up position. All fuel lines to be metal wire braided, no plastic lines. Fuel tank to be full on delivery. Four (4) additional in-cab switches for future add-ons with 20AMP protected circuits. Coat hooks on interior rear wall of cab. Power windows and/or manual door locks. Include wiring for body builder installation of PTO controls. Must have full size rear cab window.	State:



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Spec. #	Description	Required by Corporation	State Yes if you conform, State No with detail
	<p>Rear Body and Dump Box</p>	<p>15-16 yard capacity, 16.5' approx length, 7'6" approx width, 36" approx height. High Tensile Steel construction min 10ga with sloped sides approx 3"-5". Minimum ¼" Hardox 450 steel or equivalent floor. 3" channel cross members on 14"-16" centers. ¾" Plywood lined sides and 10" upper wooden side boards.</p> <p>Side steps min (2) at front of exterior box both sides. Complete walking rail along both sides exterior. Heavy duty grease able rear box hinges. Rear back-up alarm Must have anti-sail heavy duty mud flaps mounted ahead and behind drive axles. Box safety brace and storage rest. Two (2) wheel chokes and holders. Two (2) fork style shovel holders mounted to front of box. One (1) aluminum tool box approx 18" X 18" X 24" mounted L/S under box behind plow. Audible alarm to indicate box not fully down. Approximate 30" cab protector to extend forward of bulkhead and sloped back to box.</p> <p>25-30ton nitrated telescopic trunnion outside mounted "A" frame lift cylinder with automatic shut-off.</p> <p>Air activated tarp control with rods to fully cover box load. To include mesh full length tarp.</p> <p>Hydraulically controlled high lift tailgate. High Tensile steel removable tailgate min 10ga approx 45" high with three (3) vertical sliding access panels for controlled flow or shovel access, approx 16"-18" wide. Must be flush to floor openings. Air controlled tailgate locks with grease fittings and pinned lock-outs. Removable 2" solid bar tailgate pivots with locking pins. Welded on center lifting eye for ease of removal.</p> <p>10' non-articulating (fixed) under belly plow, approx (30o) degree angle with 8'2" – 8'8" sweep. Hydraulically operated from cab with approx 500p.s.i. down pressure. No cutting edges, uses 2" thick by 10"-12" rubber plow strip. Must be removable.</p> <p>Additional hydraulic lines and quick couplers to be installed at right rear corner of the box for sander operation controlled in cab. Two (2) pressure & two (2) return to work with City's existing sander and Force system system controls.</p> <p>system controls.</p> <p>To include aluminum checker plate tool box approx. 18" X 18" X 24" mounted under box on L/S.</p>	<p>State:</p> <p>State:</p> <p>State:</p> <p>State:</p> <p>State:</p> <p>State:</p> <p>State:</p>



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Spec. #	Description	Required by Corporation	State Yes if you conform, State No with detail
	Color	Cab: White with clear coat Box: Silver or Grey sandblasted, primed and plastic coated paint Frame: Black.	State:
	Drawings	Full dimensional drawings showing construction and materials used in the body.	State:
	Maintenance and Manuals	Complete list of filters, belts, fluids, lighting etc. Complete list of make and model for Pumps, PTO, Air Compressor, Air Dryer, Alternator, Starter, Steering Gear, Slack Adjusters etc. One complete set of repair, service, owners and parts manuals on CD, DVD or paper. Two Complete sets of electrical and hydraulic schematics.	State:
	Warranty	List all available warranties and any extendable warranty options. The City of New Westminster shall be authorized to make minor emergency warranty repairs without pre-authorization and shall be reimbursed by the bidder for parts and labor, not to exceed \$250.00 per incident.	State: State:
	V-Mux	As stated earlier if fully multiplexed controlled system Vendor to supply communication cables and all accessories and diagnostics.	State: Make and model
	Demonstration	Could a demo be arranged?	State:
	Options	Not To be included in price Rear back-up camera system with in-cab display. Extra front aluminum rim. Extra rear aluminum rim. Fiberglass external sun visor. Rear air ride suspension. Rear scale system if available without air ride. Engine Transmission and ABS software with all cables required to hook up to Laptop for diagnosis.	
	Trade-in	2000 Sterling tandem dump truck approx 180,000KM & 9800 hours	
	Delivery	F.O.B. City Garage, 901 First Street, New Westminster, BC V3L 2J1	