

**TOWN OF ARLINGTON  
MASSACHUSETTS  
PURCHASING DEPARTMENT**

**INVITATION TO BID**

**BID NO. 13-25**

Sealed bids, pursuant to the Uniform Procurement Act, Ch. 30B, are invited and will be received by the Town Manager, Town of Arlington, Massachusetts, until **11:00 A.M., Thursday, August 15, 2013**, at the Office of the Purchasing Director, 730 Massachusetts Avenue, Arlington, Massachusetts, at which time and place they will be publicly opened and read for furnishing:

**TYPE "D" (53 PASSENGER) TRANSIT STYLE SCHOOL BUS**

Bids received after this time will not be accepted. Specifications and Proposal Forms will be available and may be obtained at the Office of the Purchasing Director, 730 Massachusetts Avenue, Arlington, MA, 02476 on or after **August 1, 2013**.

Proposals must be submitted on forms provided and in a sealed envelope plainly marked:

**BID ON: TYPE "D" (53 PASSENGER) TRANSIT STYLE SCHOOL BUS, Thursday, August 15, 2013, 11:00 A.M., BID #13-25**

Certificate of Non-Collusion form must be submitted with bids in order to be considered.

For further information please contact Domenic R. Lanzillotti, Purchasing Officer @ (781) 316-3003.

The Town Manager reserves the right to cancel any Invitation for Bid and/or to reject in whole or in part any and all bids, when it is deemed in the best interest of the Town to do so.

TOWN OF ARLINGTON

Adam W. Chapdelaine  
Town Manager

August 1, 2013

**Town of Arlington**

**BID #13-25  
PROPOSAL PAGE**

**Type "D" (53 Passenger) Transit Style School Bus**

In the spaces provided below, please show your bid for one (1) each Type "D" Transit Style (53 Passenger) School Bus per attached specifications.

**Vendor must state model bid and submit descriptive literature.**

	<u>BID AMOUNT</u>
1. TYPE "D" (53 PASSENGER) TRANSIT STYLE SCHOOL BUS	\$ _____

MODEL: \_\_\_\_\_

ESTIMATED DELIVERY TIME FROM DATE OF NOTIFICATION:  
\_\_\_\_\_ DAYS

Signature \_\_\_\_\_

Company \_\_\_\_\_

Business Address: \_\_\_\_\_  
\_\_\_\_\_

Telephone \_\_\_\_\_ Fax \_\_\_\_\_

Date \_\_\_\_\_

**CERTIFICATE OF NON-COLLUSION**

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club or other organization, entity, or group of individuals.

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**(Signature of individual submitting bid or proposal)**

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**(Name of individual submitting bid or proposal)**

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**Name of Business**

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**Date**

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Pursuant to M.G.L. Chapter 62C, Section 49A, I certify under the penalties of perjury that I have complied with all laws of the commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting child support.

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Social Security Number or  
Federal Identification Number

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Signature of Individual or Responsible  
Corporate Officer and Title

**NON-COLLUSION FORMS  
MUST BE SIGNED AND  
SUBMITTED WITH BID**

**Bid Specifications and Requirements**  
**For One Type “D” (53 Passenger) Transit Style School Bus**  
**Current Year Model, End of Year Model or 2012 Lightly Used**  
**Vehicle.**

Whenever, in these bid specifications, any equipment or materials described by the use of a proprietary product, or by using the name of a specific manufacturer or vendor, the term “approved or equal” if not stated will be implied.

School Bus shall be equipped with a Motorola two way radio provided, serviced and installed by the current contract bidder to the Town of Arlington. Current contractor C & G Radio, Waltham Mass. (781) 230-9700

The total contract price should include body and chassis completely assembled, including all specified equipment and accessories contained in this bid ready for turn-key operation.

The vehicle shall be lettered on both the appropriate left and right center panels to read: “ARLINGTON PUBLIC SCHOOLS” and also identified on the front, rear and roof panels with the bus number “108”. Also all other body decals included shall comply with current Massachusetts State regulations.

Some added comfort accessories in the following specs may be omitted in order to secure a readily available bus for quick delivery.

Vehicle must be available for delivery no later than August 30,2013, before the start of the 2013-14 school year. All equipment and accessories must comply with all Federal and Massachusetts State laws governing motor vehicles and school bus regulations at the time of delivery.

## TYPE "D" TRANSIT STYLE CHASSIS SPECIFICATION (53 Passenger)

### CURRENT MODEL YEAR:

AIR CLEANER: dry type with easily changeable element

1. AIR RESTRICTION INDICATOR: indicator installed to monitor airflow from cleaner to engine.
2. ALTERNATOR: **240 amp** Leece-Neville
3. AXLE: Steering Hendrickson 13,200 lbs
4. AXLE, RATING: front axle rated @10,000 pounds with Petroleum Lubrication Oil
5. AXLE, REAR: **21,000** pounds Meritor 5.29 gear ratio
6. BATTERIES: Three group 31, 3375 CCA combined. located on left side of body on slide out tray, minimum 2100 CCA
7. BACKING SAFETY HORN: 112db activated when bus in reverse gear.
8. BRAKES: Full Air with ABS, 5" front, 7" rear
9. BRAKES: front and rear dust shields
10. Brakes (Emergency/Parking): Foot Brake, located in driver's left compartment
11. BUMPERS: front and rear, minimum 3/16-inch steel painted black. Rear bumper to be extended 2 inches. Rear bumper to have double A frame bracing, BOLTED to frame, (welding not acceptable) 12" after form.
12. BUMPER, REAR: designed to prevent damage to all directional lights, backup lamps and school warning lamps.
13. BUMPERS: Heavy duty construction to be provide capability of lifting bus with a bumper jack
14. Controls (at driver)
  - Key type starter (**all units to be keyed alike**)
  - Dimmer switch
  - Hazard switch on steering column
  - Self canceling turn signal with indicator lights
  - Rheostat dash dimmer on headlight switch
  - Dash mounted transmission shifter
  - Rocker switches
15. COOLING SYSTEM: charge air cooler 709 sq in mounted in front of coolant radiator 777 sq in with constant torque clamps and hydraulic actuated radiator shutters. System must have long-life antifreeze rated -40F
16. COOLING SYSTEM, HOSES: All cooling hoses shall be rubber with constant torque clamp
17. CRUISE CONTROL
18. DASH: Drivers dash with individual gauges
19. DAYTIME RUNNING LIGHTS: required
20. DIGITAL CLOCK: installed within driver's view
21. DRIVELINE: steel drive shafts, minimum of 4". Each shaft to be balanced prior to installation.
22. DRIVELINE: protective drive line guards to be installed on each section.
23. ENGINE: 6 cylinder diesel , Minimum 250 HP, 660lb torque Must be 2012 EPA Compliant
24. ENGINE BLOCK HEATER: Plug in recessed in front bumper
25. ENGINE: Fully electronically controlled with heater intake grid for easy starting and reduced emissions.
26. ENGINE, WARRANTY: 5 year, 100.000 miles, copy to be included with bid
27. ENGINE: high idle and throttle electronically controlled
28. EXHAUST SYSTEM: single horizontal system 3 inches in diameter. 16 gauge from manifold to muffler.

29. EXHAUST: 16 gauge tailpipe 4 inches in diameter routed to rear of bus, pipe hangers to be spring steel with rubber isolators. All clamps to wide band design. The tailpipe shall exit through rear bumper.
30. FRAME: 50,000 PSI rails
31. FUEL SYSTEM: 60 gallon between frame rail tank, for maximum safety and best weight distribution for winter operation. **SIDE MOUNT TANK NOT ACCEPTABLE**
32. FUEL SYSTEM: fuel sender inspection plate and locking fuel fill door.
33. FUEL SYSTEM FILTERS: **Racor 490R30** Heated water and fuel separator with 200 watt heater, 30 micron filter.
34. HORNS: dual horns protected from direct splash and road spray
35. INSTRUMENTS: Complete array of individual gauges required: voltmeter, speedometer w/ seven digits, odometer, fuel gauge, oil pressure gauge, coolant temperature gauge, tachometer, engine hour meter, and engine warning system for low oil pressure or high temperature, lighted message bar / buzzer to "check gauges".
36. INSTRUMENTS: Gauges shall be individually replaceable and gauge lights shall be replaceable from the front of dash.
37. MANUALS: complete body and chassis service manuals along with complete parts catalog shall be provided. **DATA MUST INCLUDE WARRANTIES ON MAJOR CHASSIS COMPONENTS.**
38. PAINT: the chassis, frame, bumpers, wheels shall be painted black
39. SHOCK ABSORBERS: Front and rear double-action shock absorbers compatible with manufacturer's rated axle capacity at each wheel location
40. SUSPENSION FRONT: **10,000** pound front parabolic springs
41. SUSPENSION REAR: 21,000 # Air Ride
42. STEERING: Ross TAS-65 or equivalent with integral design, powers unit mounted directly to steering column with one-piece drag link.
43. STEERING: Power steering pump shall be gear driven
44. STEERING: two spoke, padded tilt/telescoping
45. STEERING: Tilt/telescoping steering wheel.
46. TIRES, FRONT (2): **All season radials w/ steer tread**
47. TIRES, REAR (4): **All season radials with aggressive winter tread**
48. TOW HOOKS: front frame mounted tow hooks
49. TRANSMISSION: Allison 2500 PTS electronic transmission with five forward speeds and TRANSYND synthetic lubricant.
50. TRANSMISSION, WARRANTY: 5 years/unlimited mileage
51. TRANSMISSION COOLER: **Separate transmission** oil cooler with minimum heat exchange capacity of **1535 BTUs**.
52. VALVES: heater water shut off valves located in engine compartment to isolate hot water from the body.
53. VALVE: heater water regulator valve accessible to the seated driver to regulate hot water flow to the body.
54. WHEELBASE: 169 inches maximum
55. WHEELS: Hub piloted 10 stud disc wheels painted black. "BUD" style ball and seat wheels or cast spoke wheels are not acceptable.
56. WIRING: all chassis wiring shall be color and number coded in regular intervals. Easy access to chassis wiring terminal and fuses shall be provided.

## TYPE "D" TRANSIT BODY SPECIFICATION (53 Passenger)

Note: Vehicle bid must meet FMVSS 221, joint strength for bus body construction

1. ACCESSORY POWER SOCKET: 12 volt power provided in dash area for cellular telephone, socket to include protective rubber cap
2. AUXILIARY FANS: one six inch fan with protective **metal** guard mounted top dead center over the windshield and one mounted left of driver each controlled by a two speed switch
3. ACOUSTIC HEADLINING: acoustic perforated headliner over driver's compartment and at least first body section
4. AIR CONDITIONING, , Free Blow, Minimum 96K BTU front and rear evaporators
5. AIR INTAKES: dual fresh air intakes at right and left sides, one to provide fresh dry air to the defroster system, one to provide fresh air to the driver. Driver's fresh air vent shall be easily reached by seat driver
6. BATTERY COMPARTMENT: under floor battery compartment with sliding tray with captive pin for batteries.
7. BODY CONSTRUCTION: shall meet or exceed requirements of FMVSS 221, JOINT STRENGTH.
8. BODY CONSTRUCTION: floor construction to meet FMVSS 221 constructed of 14 gauge galvanized steel.
9. BODY CONSTRUCTION, RUB RAILS: 4 - die formed 16 gauge steel protective rails, one beneath the windows, one at the seat level, one at the floor level, and one located at the bottom of the skirt (snow rail).
10. BODY CONSTRUCTION: The SEAT RAIL (at the seat level) must run around the rear of the bus to the emergency door.
11. BODY CONSTRUCTION: Snow rail must run the full length of the bus except at wheelhouses.
12. BODY SHEETMETAL: all exterior steel shall be mill applied zinc coated, treated with electrodeposited prime, e-coated with rust resistant bonding zinc after fabrication and before assembly using **20-gauge fluted side panels**
13. BODY SHEET METAL: embossed rain visors over each passenger window and driver's sash.
14. BODY SHEET METAL: all interior panels shall be RIVITED except where screws are placed in wired duct for access to wiring harness.
15. BODY UNDERCOATING: the entire body shall be fully undercoated BEFORE mounting on the chassis for complete and effective coverage with Tectyl 355 or equivalent.
16. DEFROSTER: 90,000 BTU's full length fixed outlets including driver's sash with nozzles directed at the entrance door. Controls shall allow the driver to direct 100% of airflow to the windshield or passenger area. Easily accessed and easy to clean.
17. DOOR, ENTRANCE: outward opening entrance door air activated or by forward mounted manual controls.
18. DOOR, EMERGENCY: a rear emergency door located in the center with upper and lower glass
19. DOOR, EMERGENCY: dual hinges **with grease fittings** for lubrication
20. DOOR, EMERGENCY: a sleeping child check, activated system to be installed
21. DOOR, EMERGENCY: the door when opened shall activate a D.O.T. buzzer.
22. DOOR, EMERGENCY: A retainer to hold the door open in a 90-degree angle is required.
23. EMERGENCY ROOF HATCH (S): two Specialty Pop up Value roof hatches with buzzer installed in compliance with FMVSS 217.
24. EMERGENCY WINDOWS: four emergency push out windows @ 2 per side with front vertical hinges shall be installed equally throughout the bus body in accordance with FMVSS 217. Emergency windows shall have tampering buzzers.
25. ENGINE COMPARTMENT: Shall be fully insulated to reduce heat and noise in the engine compartment.
26. FENDERS: formed rubber fenders over all wheel housings. Metal fenderettes not acceptable.

27. FLAPS: front and rear full length mud flaps are required
28. FLOOR COVERING: **5/8 inch thick, marine grade plywood, SCREWED DOWN**
29. FLOOR COVERING: Light Gray RUBBER floor covering with ribbed aisle. Molded rubber covering over each wheelhouse.
30. FLOOR COVERING, STEPWELL: ribbed or non-slip rubber. Step noses to be white, top step to have white rubber wear plate.
31. FUEL SENDER INSPECTION PLATE: to provide access to fuel tank sender
32. FUEL DOOR: Spring loaded door with lock
33. HEADER PADS: located over all doors, 4 inch minimum
34. HEADROOM: **77 inches** over plywood and floor covering measured in aisle between passenger seats.
35. HEATING SYSTEM: plumbing to all heaters routed to provide hot water to defroster first for maximum safety and visibility. Hi-miler heater hoses with constant torque clamps required.
36. HEATING SYSTEM: CONVECTION, Twin baseboard type convection heating system located at floor level starting immediately behind the driver compartment including a 50,000 BTU step well heater.
37. HEATER REGULATOR VALVE: valve to control flow of hot water into the bus body shall be accessible to the seated driver without opening the engine compartment hood.
38. INSULATION: body and roof bows to be completely insulated with 1 ½ inch R 5.75 insulation.
39. LETTERING: all vinyl lettering to be applied per Town of Arlington requirements, and in accordance with state and federal requirements. Lettering and bus numbers to be determined at time of order.
40. LETTERING: Included Mass “unlawful to pass.... and keep back ” Decal
41. LIGHTS, L.E.D. SCHOOL WARNING: LAMPS: Eight way school warning lamps. Lights shall be wired non-sequentially. A WELDON solid-state flasher with ten-year warranty shall activate lights, with a 16 light monitor.
42. LIGHTS, STOP ARM: strobing LED stop arm per FMVSS regulations
43. LIGHTS, WARNING: individual black hoods with black paint surround
44. LIGHTS, DAYTIME RUNNING: front and rear daytime running lights required
45. LIGHTS, HEADLAMPS: Halogen
46. LIGHTS, SIDE DIRECTIONALS: SAE armored directionals, forward set in standard location
47. LIGHTS, SIDE DIRECTIONAL: SAE armored directionals over rear wheelhouse.
48. LIGHTS, REAR BACK-UP: four 4 inch white activated when reverse gear is engaged
49. LIGHTS, REAR DIRECTIONAL: amber arrow
50. LIGHTS, FRONT DIRECTIONAL: amber arrow
51. LIGHTS, REAR STOP AND TAIL: red lens
52. LIGHTS, INDICATOR: red pilot light in driver’s dash to indicate emergency exit ajar
53. LIGHTS, CLEARANCE AND CLUSTER: as required by state and federal law, all clearance and cluster lights to be armored.
54. LIGHTS, INTERIOR DOME: single row of interior lights the length of bus positioned over the aisle.
55. LIGHTS, DRIVERS, DOME: controlled by separate switch
56. LIGHTS, RED: red light over emergency door wired with clearance lights
57. PAINT, INTERIOR: lead free baked enamel, light color paint preferred
58. EXTERIOR: lead free, national school bus yellow heat cured polyurethane. Trim to be black. Paint to carry a full (not pro-rated) five-year warranty.
59. MIRRORS: a full array of Rosco Avia, exterior mirrors in black frames to meet FMVSS 111. **All** exterior mirrors to be HEATED and controlled by a single switch. Interior rearview mirror 6x30.
60. RADIO: AM/FM PA system with multiple speakers’.
61. RAIN VISORS: roof panels shall have embossed rain visors permitting the window to be opened to the first stop with out allowing rain inside the passenger compartment.
62. REFLECTORS: amber and red reflectors to be attached per FMVSS regulations.



63. REFLECTIVE MARKINGS: **3M BRAND** to be located around each emergency exit including roof hatches and windows.
64. REFLECTIVE MARKINGS: **3M BRAND** located at the floor line running the length of the bus 2 inches wide.
65. REFLECTIVE MARKINGS: **3M BRAND** outlining the rear of the bus body.
66. REFLECTIVE MARKINGS: **3M BRAND: SCHOOL BUS** front & rear
67. SAFETY EQUIPMENT: 2 rubber chock blocks secured, Fire extinguisher mounted, METAL FIRST AID kit mounted, Metal Body Fluid Cleanup kit mounted, Reflective triangles in box, mounted under the front seat.
68. SEAT BELT, DRIVER'S: fully adjustable seat belt and shoulder harness with adjustable tether for shoulder strap.
69. SEAT, DRIVER'S: high back fully adjustable black air suspended.
70. SEAT PASSENGER: . The color shall match or compliment the interior scheme. All remaining seats shall be DOT standard 39" school bus seats. Seat frames shall be constructed of high tensile steel. All seats are to have **seat belts installed.**
71. SPACE SAVER SEATS: Use of space saver seats is prohibited.
72. SEATS, PASSENGER, UPHOLSTERY: all seats to have fire retardant 42 oz. color coordinated Upholstery.(Burgundy)
73. SEATS, BARRIERS: 39 inch barriers left and right side with legs inset from aisle, right side barrier to have modesty panel to floor.
74. SHOULDER PADS: Installed full length under the passenger windows
75. SOLENOID: all body circuits shall be wired through a body solenoid. This solenoid shall disconnect power to body circuits when ignition is turned off.
76. SOUND SYSTEM, SPEAKERS: 4 **internal** speakers, one all weather bullhorn type external speaker mounted under the right front step well area.
77. STEPWELL: Slant design with three steps. Must be **STAINLESS STEEL**
78. STEPWELL, LIGHT: step well light to activate when door is opened and clearance lights are on.
79. STOP ARM: air operated stop arm meeting FMVSS 131. Stop arm shall have 2 flashing red L.E.D. Strobe lights per side and reflective background. Painted signs are not acceptable.
80. SWITCH PANEL, BODY: a full array of labeled, fiber optic illuminated push rocker switches
81. SWITCH, DASH: to have rheostat separate from chassis dash to control illumination.
  
82. WINDOWS, SIDE: split sash design. All side windows to be 12-inch clear opening windows with tempered glass. Push out windows to have laminated glass. Side windows to be tinted.
83. WINDOW, DRIVER'S: driver's sliding sash to have positive-latch, and tinted.
84. WINDSHIELD: to be curved two-piece for maximum visibility with a driver tinted shield.
85. WINDSHIELD, WIPERS: wet arm, winter blade wipers, with intermittent- two speed and intermittent speeds controlled by a single switch
86. WIRING: all wiring to be numbered and color-coded. Wiring shall be protected by automatic re-setting circuit breakers. Easy access to terminals, circuit breakers, and other electrical components shall be provided in a hinged access door beneath the driver's window. If this access panel is located outside of the bus, it must have a security lock on it keyed the same as the entrance door.

ON SPOT CHAINS to be priced as an option