

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF GENERAL SERVICES
DIVISION OF PURCHASING AND SUPPLY
SPECIFICATIONS FOR 26 PASSENGER BUS**

PURPOSE:

The purpose of this specification is to establish a purchase requirement for a 26 passenger shuttle bus with wheelchair access for use by the Southside Virginia Community College, Agencies, and other Public Bodies of the Commonwealth of Virginia. Vehicle in this specification will be used for college campus transportation purposes.

SCOPE:

The specifications below describe the general requirements for **one (1)** new campus transport bus. The vehicle supplied must comply with all U. S. Department of Transportation, National Highway Traffic Safety Administration, Bureau of Motor Carrier Safety, Federal Motor Vehicle Safety Standards, EPA emissions regulations, State of Virginia rules and regulations, and all other regulations regarding bus safety in effect at the time of purchase.

BIDDER REQUIREMENTS:

The vehicle offered in answer to this request for bid must be a new and unused current production model of the equipment required. No prototype or rebuilt product will be accepted, and offering of such a product will be cause for bid rejection. All components, unless otherwise required by these specifications, shall be the standard or optional equipment specifically advertised and installed by the manufacturer.

Bidder must provide with bid a completed specifications form with information of complete vehicle offered filled in at the appropriate places in the specifications form. Bidders may use the lines in the right column across from specifications to provide clarifying information for specific items. A blank line in the right column indicates bidder compliance with the specification item. All blank lines in the specifications text requiring information must be filled out with appropriate data. Bidders/Vendors shall indicate any deviations with appropriate reasons and documentation. The Commonwealth reserves the right to obtain technical data and to request clarification when deemed necessary. **Failure on the part of the bidder/Vendor to provide all requested documentation may be cause to reject the bid/request as non-responsive.**

The Commonwealth of Virginia, in its sole discretion, may choose to accept or reject any deviation(s) from the specifications.

The following specifications are intended to define the minimum level of quality, performance, and suitability for the intended purpose of the requested vehicle and equipment, and are meant to be met or exceeded. Vehicles offered by the bidder may contain equipment that is in addition to the basic vehicle equipment required in the specifications below, or which exceeds the basic equipment stated in the specifications below. The specifications are not meant to be restrictive as to brand name or manufacturer. All equipment bid may be the brand name and model, or shall be **equivalent** to brand names and/or any other specification elements using the **Use of Brand Names** clause (see General Terms and Conditions) in making an equivalence determination.

Bidders shall provide delivery for vehicle offered, FOB destination. Deliver to Southside Virginia Community College, 109 Campus Drive, Alberta, VA 23821, between 8:30 AM and 4:30 PM Monday thru Friday. Contact Janice Phillips at (434) 949-1001 not less than 48 hours prior to delivery. Provide your best delivery lead time after receipt of order (ARO), in the "DELIVERY TIME...." section provided at the end of the specifications.

Products provided must include warranty to provide the best practical no-cost protection to the Commonwealth for correction or replacement as needed for defects in manufacturing, assembly, or parts, to cover bus, chassis, and all included equipment. Provide documentation of your best manufacturer warranty in the "WARRANTY" section at the end of the specifications. Warranty must commence when the vehicle is put in service as evidenced by purchaser's records, rather than commencing on date of delivery.

All bidders shall submit a floor plan of the proposed bus vehicle, drawn specifically for this procurement. Offers submitted without a floor plan as described above will be deemed non-responsive.

Section I: Chassis Specifications Data

Clarifying Information

1: BASIC CHASSIS INFORMATION:

a. Vehicle Configuration: Cab-chassis, Conventional Cab, 4x2, Ford F550 or equivalent:
Chassis Manufacturer and Model: _____

- b. Gross Vehicle Weight Rating: 19,500 pounds GVWR, minimum
- c. Front axle: 7,000 pounds GAWR, non-driving
- d. Rear axle: 13,660 pounds GAWR, Dual Rear Wheels
- e. Chassis wheelbase: 201 inches minimum

2: FRAME:

- a. Frame shall be minimum 36,000 psi steel, single channel, with ladder type cross members.
- b. Frame length shall be sufficient to provide for a minimum overall vehicle length of 28 feet.

3: ENGINE, TRANSMISSION, AND DRIVE LINE:

a. Provide an 8 cylinder turbocharged diesel engine, minimum 300 Horsepower at rated RPM, minimum 660 lbs-ft torque at rated RPM, 49 State EPA emissions compliant, minimum 6.2 liters displacement.
Specify engine, Liters, HP @ RPM, Max Torque @ RPM: _____

- b. Heavy duty automatic transmission with a minimum of (6) forward speeds, to include (1) or (2) overdrive gears:
 - 1. Transmission must be rated for engine maximum torque.
 - 2. Transmission must be equipped with an auxiliary transmission cooler.

- c. Stationary elevated idle control, or equivalent fast idle interlock system
- d. Vehicle drive shaft shall be equipped with a drive shaft guard to contain a broken or loose drive shaft from contact with the ground or chassis brake lines.
- e. Horizontal exhaust pipe, with corrosion resistant muffler
 - 1. No flexible tubing shall be used between the engine and the muffler.
 - 2. Exhaust must exit at the rear of the completed vehicle.
- f. 40 gallons minimum capacity fuel tank, inside frame mounted, aft of rear axle.

4: FRONT AXLE AND SUSPENSION:

- a. Provide a 7,000 lbs. GAWR capacity non-driving front axle
- b. Power steering
- c. Heavy duty coil springs, minimum 7,000 lbs capacity
- d. Shock Absorbers, heavy duty
- e. Front stabilizer bar

5: REAR AXLE AND SUSPENSION:

- a. 13,660 pounds GAWR minimum capacity driving rear axle:
- b. 13,660 pounds capacity rear multi-leaf single stage springs, to provide "progressive" load carrying for consistent ride under varying load conditions
- c. Rear shock absorbers, heavy duty
- d. Rear stabilizer bar

6: BRAKES:

- a. Provide four wheel hydraulic disc brake system:
- b. Must include full 4-channel antilock ABS system, controlling all wheels braking
- c. Power assisted braking
- d. Self-adjusting brakes front and rear
- e. Manually actuated and released parking brake
- f. Park brake may lock at rear wheels or drive shaft
- g. Park brake must hold full GVW vehicle from movement on a 15 degree incline.
- h. Provide a warning light on dash to indicate when park brake is applied.

7: WHEELS AND TIRES:

- a. Front wheels to be (2) manufacturer standard, 19.5 x 6.0
- b. Rear wheels to be (4) manufacturer standard, 19.5 x 6.0
- c. Front tires shall be (2) 225/70R19.5 highway tread radial, load range F or G.
- d. Rear tires shall be (4) 225/70R19.5 highway tread radial, load range F or G

- e. Brake System shall comply with FMVSS 121 and/or FMVSS 105

8: CHASSIS ELECTRICAL:

- a. 12 Volts DC negative ground electrical system
- b. Lighting package shall meet FMVSS 108 requirements, and state of Virginia requirements.
- c. Manufacturer standard circuit breaker electrical circuit protection
- d. (2) batteries, each 750 CCA/78 amp-hour minimum
- e. Batteries shall be installed in engine compartment
- f. Provide (2) minimum 350 amp alternators
- g. Solid state voltage regulator
- h. 2-speed windshield wipers with intermittent function, with windshield washer
- i. Solid state turn signals flasher
- j. 4-way emergency hazard flashers
- k. Electrical connections for vocational installer lighting

9: CAB:

- a. Conventional cab, with tilt hood
- b. All standard cab equipment is to be included.
- c. Tinted windshield
- d. Exterior mirrors shall be manufacturer OEM
- e. All standard instrumentation, to include oil pressure, fuel gauge, speedometer, odometer, engine water temperature gauge, voltmeter, with warning lights to provide the indications of low voltage, low oil pressure, headlights high beam, parking brake on, and turn signals activation.
- f. Dual electric horns
- g. Controls and switches are to be permanently labeled for easily recognized identification.
- h. Standard interior trim, with standard interior color – medium flint gray or equivalent
- i. Heater with defroster, heavy duty hot water type
- j. Air conditioning system shall have (1) OEM compressor, and independent compressors for front and rear bus systems.
 - 1. The independent compressors must be capable of supporting an auxiliary air conditioning system for a bus body that shall be rated no less than 85,000 BTU/hour.
- k. AM/FM/CD radio with minimum (4) speakers, digital clock, and public address feature
- l. Minimum of (1)12 volt power port in cab
- m. Black vinyl floor covering in cab
- n. Driver interior sun visor
- o. Minimum (2) vehicle keys

1. The passenger area air conditioning units shall utilize the (2) auxiliary compressor units provided with the vehicle chassis.
2. Total auxiliary air conditioning system output shall not be less than 85,000 BTU/hour.
3. The rear and passenger area air conditioning units shall be located so as not to adversely affect the wheelchair tie down area or regular ambulatory movement.
- f. Provide and install a DVD player system with a minimum 15" flip down monitor.
 1. The flip down monitor shall be installed at the front center of the passenger area, to the rear of the driver.
- g. Provide and install priority seating signs that shall conform to the specifications as outlined in the ADA regulations Subpart B-Buses, Vans and Systems, 38.27 Priority seating signs.
- h. The following safety equipment shall be mounted in a location within the vehicle (approved by the Department of Rail and Public Transportation) so as not to interfere with the driver or passengers:
 1. 18 unit Virginia Bus First Aid kit, containing:
 - 2 boxes Adhesive strips, 1" x 3", 16/box
 - 2 boxes 2" bandage compress, 4/box
 - 3 ea. 4" bandage compresses
 - 2 ea. 40" triangular bandages
 - 2 boxes Antiseptic swabs, 10/box
 - 1 box Sting relief swabs, 10/box
 - 1 ea. CPR mask with gloves, wipes
 - 2 ea. 4" gauze bandages with clips
 - 1 ea. Large wound compress
 2. Fire extinguisher, 5# ABC type
 3. Warning triangles, reflective type - (3) units
 4. OSHA approved Body Fluid Clean Up Kit
- i. Undercoating shall be applied to the underbody, including wheel well housings:
 1. Areas directly above the exhaust pipe, muffler, and tailpipe shall not be undercoated.
- j. Mud flaps shall be provided and installed at the rear of all (4) wheel wells of the vehicle.
- k. Interior circulation, handrails and stanchions shall conform to the specifications as outlined in the ADA regulations Subpart B-Buses, Vans and Systems, 38.29 Interior circulation, handrails and stanchions.

3. BODY ELECTRICAL:

- a. All bus body electrical and wiring installation must meet the following basic specifications:
 1. All wiring used must have exterior grade insulation.

