

Bus, 36 Passenger

Bus, 36 passenger, with restroom equipped as advertised by the manufacturer, to meet or exceed the following minimum specifications:

Proposed Bus:

Manufacturer: _____ Model: _____
Class: _____ Total GVWR: _____

SPECIFICATIONS

Scope: The purpose of these specifications is to set forth **minimum** requirements for a vehicle capable of carrying 36 adult seated forward-facing passengers minimum, commercially produced cutaway, front-engine bus with a minimum gross vehicle weight rating (GVWR) of 26,000 pounds. Vehicle to be Class C, as defined in the Altoona testing regulations, complying with the intent of these specifications, defined as commercially produced bus with specific characteristics as shown below. Vehicle shall be fully tested at the Pennsylvania State bus testing facility in Altoona, Pennsylvania according to the applicable FTA minimum service life requirement.

The bus shall be designed to operate in service for at least ten (10) years or 350,000 miles. The bus shall meet all applicable MS state and federal laws, rules, and regulations including Federal Motor Vehicle Safety Standards (FMVSS) and Environmental Protection Agency (EPA) regulations in effect at the date of manufacture

Non-Restrictive
Clause:

Any use of the brand name or equal within this specification is to be considered a reference for the purpose of describing the standard of quality, performance, and characteristics desired. It is not intended to limit or restrict competition.

Applicable
Documents:

Federal, State, and Automobile Manufacturers' Association (AMA) laws, regulations, standards, and specifications concerning the production of utility vehicles or components thereof as related to environment protection and safety in operations as are in effect on date of Request for Quote Formal (RFQF) shall be construed to form a part of these specifications.

Requirements:

Vehicle components, assemblies and accessories shall be standard production items, unless otherwise specified herein. The vehicles and all allied equipment shall be designed to permit ready accessibility for maintenance purposes with minimal disturbance of other components or assemblies. The term "heavy-duty" is used to describe quantity, quality, or capacity that is normally supplied with the standard production item. All vehicles supplied under this specification shall be in full compliance with applicable FMVSS as established by the U.S. Department of Transportation.

Chassis

Wheelbase: 250" minimum / 310" maximum

Wheelbase: _____

Comply Yes/No: _____

Engine, Diesel:

The engine shall be at minimum 6.7 L diesel, 210-300 horsepower, 520-860 lb.-ft. torque, turbo-charged, after-cooled, engine meeting current Federal regulations and EPA emissions standards and all states' emission standards. The engine shall be direct-injected with a b10/b50 life of 300,000/450,000 miles. A full-flow type oil filter shall be mounted to the engine which incorporates a full-flow, screw-on type replacement. A dry type air cleaner utilizing a replacement pleated paper element shall be provided. The engine air duct shall be shaped so as to minimize water entrance into the air induction system. Air cleaner shall be mounted. Starting motor shall be medium-duty

gear reduction type, 12-volt, protected from exhaust manifold heat and of ample capacity to crank the engine. The area inside the power plant compartment adjacent to the bus interior shall be completely insulated so as to prevent smoke and fumes from entering the passenger's portion of the bus, and insulated against both heat and sound. Access panels shall be easily removable to permit access to all power plant components accessories.

Engine description and horsepower: _____

Comply Yes/No: _____

Transmission: The transmission shall be a heavy-duty fully automatic unit designed to support a 6.7L, minimum, diesel engine. The specific model shall be as designed and engineered for the specific bus being bid. System shall include a heavy-duty cooler.

Transmission: _____

Comply Yes/No: _____

Axles and
Suspensions:

Both the front and rear axles shall be load rated for design distribution so that they are capable of carrying the loads upon them during all conditions of transit operation. The vehicle shall be designed to carry a maximum transit load (GVWR) which shall include the curb weight of the bus, a full load of seated passengers, and the driver (calculation of passengers' weight averaged at 150 pounds each). Bidder shall indicate a maximum number of passengers that the vehicle can carry.

Bidder shall furnish with Statement of Qualifications (SOQ) full signed certification along with supporting documentation on ability to meet the said specifications and shall indicate certified curb weight and GVWR load rating based on axles, suspension system, shock absorbers, and tires.

Front axle shall be of standard heavy-duty design. The rear wheel bearings shall be oil lubricated.

Axle ratio shall be such as to provide at least 65 mph road speed with full load on level surface (mechanical governor not acceptable). Drive shaft shall be capable of transmitting maximum torque generated by the engine and transmission to the rear axle. A guard for the shaft is required. Bidder shall furnish information on axle size, capacity, gear ratio, and road speed.

Two (2) heavy-duty shock absorbers shall be provided on the front axle, one on each end of the front axle. Two (2) heavy-duty shock absorbers shall be provided on the rear axle, one on each end of the rear axle. Front and rear air ride system may be used with rear shock absorbers.

The suspension system shall be air ride and designed to maximize control and roll, and prevent excessive body lean-in turns. Front stabilizer bar shall be furnished (if available from chassis manufacturer). Minimum GVWR shall be 26,000 pounds.

Axle rating/capacity:

Front: _____ Rear: _____

Axle type:

Front: _____ Rear: _____

Gear ratio: _____

Road speed: _____

Comply Yes/No: _____

Cooling System: The radiator shall be heavy-duty and will have sufficient capacity to properly cool the engine in heavy, rural-type transit service without the addition of coolant throughout a normal day's operation. Engine fan may be belt or hydraulic driven from engine crankshaft. Engine fan may be driven by gears from the engine camshaft.

The cooling system shall be of a pressurized type. Manufacturer's standard OEM hosing or approved equal shall be used throughout the cooling system. All-weather type coolant shall be utilized to protect to a minimum of -20°F.

Radiator or filler neck shall be equipped with a safety pressure release cap and shall be positioned to readily permit checking and adding coolant from outside the vehicle.

Comply Yes/No: _____

Exhaust System: The exhaust system must be heavy duty, leak proof, and designed and constructed to minimize fire hazard. All parts must be made of corrosion resistant materials. Flexible tubing may not be used between engine and muffler. Exhaust system must meet or exceed FMVSS and EPA noise level and exhaust emission requirements.

Exhaust tail pipe shall be installed as high as possible from the ground. Exhaust gases or waste heat shall be discharged to the rear of the bus.

System shall be securely fastened and routed to protect components from hazards. System shall conform to the requirements of FMVSS.

Comply Yes/No: _____

Fuel System: The fuel tank(s) shall have a minimum capacity of forty (40) gallons. The tank(s) shall be made of heavy-gauge steel, treated to prevent rusting throughout the life of the vehicle. The filler pipe or neck shall be free of any obstructions and meet industry standards.

The fuel system shall be internally baffled to prevent surging; it will be rigidly supported and arranged for easy removal. The fuel system must meet federal standards.

Capacity per tank: _____

Number of tanks: _____

Comply Yes/No: _____

Electrical System: The electrical system shall be a heavy-duty 12-volt system with a 12-volt starting motor and have an alternator with a minimum rating of 190 amps. Minimum of two (2) full-size commercial transit type heavy-duty 12-volt batteries, of equal size and capacity, having a combined total minimum 1,300 CCA. All material used in the electrical system shall be of the highest available quality. The battery system shall be adequate for all electrical loads and demands. Alternator must have a minimum 275 amp rating. Alternator shall have sufficient capacity to charge above the demand rate with full load, air conditioning, wheelchair lift and other optional equipment operating when engine is at idle.

The battery compartment shall be large enough to accommodate the batteries and shall be sealed and vented to the outside. The battery compartment(s) shall be secured with a locking device. Batteries shall be mounted in compartment.

All cable in the vehicle shall be of sufficient size to carry the required currents without excessive voltage drop. All wiring shall be covered with split loom, tubing to protect wiring from chaffing and other mechanical damage. Wiring shall be color coded and printed with individual circuit number and function. All wire connectors shall be OEM type locking plastic moldings with brass or copper terminals. All circuits, including main power feed, shall be protected by manual reset circuit breakers.

Wiring in body shall be in a plastic loom, from power source to the component or fixture and shall be adequately protected against interference by passengers and the environment. Paper and cotton braid wrap is not acceptable. Cable in engine compartment shall be insulated to protect it from engine heat. Cables and wiring shall be held in place with rubber covered clamps.

A schematic shall be affixed inside the master panel, identifying which breaker controls which component or fixture (for bus body).

All cable and wiring diagrams are to be marked showing the codes used.

Two (2) heavy-duty, 12-volt electric horns shall be provided and installed so as to be protected from wheel wash.

Electrical devices, switches, and gauges shall be located such that they will not create a fire hazard during normal operation or in case of failures. All electrical motors, with the exception of the starter, shall be readily accessible for service including, directional lights, defroster fan low center, and door buzzer.

The vehicle shall be equipped with a disconnect switch that removes 12V battery power from all bodybuilder loads while not interfering with OEM chassis electrical circuits.

Alternator:

- a. Manufacturer: _____
- b. Amperage rating: _____

Battery size and capacity – each: _____ combined: _____

Comply Yes/No: _____

Instrument Panel and
Control Switches:

A separate instrument panel shall be conveniently located in front of the driver. It shall include the following instruments:

- a. Reliable road speed indicator with odometer
- b. Oil pressure gauge
- c. Ammeter gauge or voltmeter gauge
- d. Fuel gauge
- e. Headlights high beam indicator light
- f. Engine temperature (hot engine) gauge

Warning lights and buzzers shall be provided to indicate low oil pressure and hot engine. An automatic mechanical control device shall be installed on the vehicle engine to shut the engine off before overheating or low oil pressure can damage engine.

A control switch panel shall be located in the driver's compartment and shall be designed for simplification of electrical controls and shall be inclined for easy access to control switches. Separate switches shall control the front heater, rear heater(s) and defrosting motor.

Normal control of electrical units, except for the turn signals, hazard flashers, and horn shall be through positioning of the main control switch, if applicable.

Comply Yes/No: _____

Steering: Bus shall be equipped with power steering, and steering wheel shall be free from road shock and vibrations. Steering wheel/column shall be tilting for operator comfort and safety.

Comply Yes/No: _____

Brakes: Brakes shall comply with current FMVSS. Brake wear parts shall be heavy-duty and shall be designed to be compatible with axles, tires, other suspension components, and GVWR requirements.

The parking brake may be either combined with the emergency spring braking system or mechanically operated by the driver. The system shall be adequate to hold a fully loaded bus on a 20% grade.

Bidder shall furnish with SOQ full information and specifications of braking system.

Comply Yes/No: _____

Wheels and Tires: Tires shall be transit-type with 19.5 inch rims. Wheels and tires shall be sized according to OEM chassis specifications. Tires shall be all season, tubeless, steel-belted radial ply. There shall be single wheels on the front and dual wheels on the rear. All wheels and tires shall be interchangeable, of equal size and rating. The combined load rating of wheels and tires shall meet or exceed the minimum GVWR of the vehicle. One spare tire and rim shall be provided, mounted (if possible) to the vehicle, and shall be identical in size and manufacture to other tires. A valve stem extender on the inner wheels shall be provided so the tire pressure can be easily checked and adjusted. Mud flaps shall be provided behind both sets of rear wheels

Comply Yes/No: _____

Lubrication: Full and complete lubrication as furnished in regular commercial production units shall be provided. High-pressure hydraulic fittings shall be provided where needed. Fittings shall be located to permit ease of access.

All exposed lubrication fittings shall be masked or otherwise protected at the time of painting in order to keep them free from paint and undercoating.

Comply Yes/No: _____

Body, Interior, and Accessories

General Dimensions: Overall width (excluding mirrors) – 102", minimum
Overall height – 130", maximum (with air conditioning units)
Ground to first step – 14.5", maximum
Seating capacity – 36 passengers, with rear restroom

Restroom shall be industry standard model for over the road vehicles.

Comply Yes/No: _____

Interior Dimensions: Passenger Compartment:
Height at center aisle – 78" minimum
Center aisle width – 13" minimum
Hip-to-knee space – 28" minimum

Width: _____ Height: _____

Center aisle width: _____ Hip-to-knee space: _____

Comply Yes/No: _____

Wheel housing and
Stepwell:

Wheel housing shall be galvanized steel or aluminum construction, providing ample clearance of front wheel while steering. Wheelhouses and fenders must be constructed so as to permit removal of wheel hub assemblies as a unit. Wheelhouses shall be protected against corrosion with undercoating.

Stepwells are to be of heavy-duty steel or aluminum construction, with adequate reinforcement to prevent deflection. They shall be adequately fastened to and supported from the body. Steps and risers shall be in accordance with general dimensions as noted and shall conform to federal regulations governing elderly and handicapped vehicles.

The stepwell shall be lighted and shall have a first entry step no higher than 14.5 inches above the ground. The steps shall have a minimum depth of 8.5 inches and shall be continuous for the full width of the door opening.

Comply Yes/No: _____

Bumper and Tow
Hooks:

Standard OEM front and rear bumpers shall be provided.

A minimum of two (2) rear tow hooks shall be provided and securely attached to the vehicle's understructure. Tow hooks shall be located so that no damage occurs to the vehicle when in tow.

Comply Yes/No: _____

Body Structure:

Steel cage construction is required. Fiberglass reinforced plastic (FRP) may be used in combination with the steel or aluminum body only for end caps, front cowlings, and lower body panels (but only if the panels are externally located below the vehicle floor level). Fiberglass reinforced plastic (FRP) may not be used for or as a substitute for wall frame and exterior walls, wall panels and body panels. FRP may be used in the roof construction to allow a one piece roof.

Side walls shall be constructed of aluminum panel extrusions or galvanized steel panels welded or bonded to their corresponding frame. (Note: No aluminum sheeting on the steel frame or steel sheeting on the aluminum frame.)

Roof construction shall be sufficient strength and stiffness to prevent vibration, drumming or flexing in service and shall be equivalent in strength to the bus side wall.

All exterior joints and seams shall be protected by an application of caulking compound of zinc-chromate type or similar material. The body and roof shall be thoroughly water-tested and made tight to prevent leakage.

Before assembly, all metal body parts shall receive a thorough multiple state anti-corrosion treatment.

The entire body frame understructure of the vehicle is to be fully undercoated, in compliance with EPA regulations, with nonflammable resin type polyolefin material or equivalent, applied at time of manufacture. Automotive quality undercoating is not satisfactory.

Adequate insulation shall be provided throughout the roof and sidewall area together with engine heat riser for efficient management of heat and noise reduction. Insulation must be fire resistant.

A detailed structural drawing of the cage construction shall be submitted with the SOQ. The drawing will include the size, gauge, and spacing of all structural components.

Comply Yes/No: _____

Floor Structure and
Floor Covering:

Floor shall be constructed of marine grade plywood with a minimum thickness of 3/4". The floor shall be securely attached to frame members.

A metal fuel tank access panel shall be provided in the floor over the fuel tank connections.

The entire wooden floor shall be properly prepared for application of anti-skid transit flooring. Flooring material shall be transit grade, 3/16" in aisle and driver's platform and not less than 3/16" under seats. The color is to be coordinated with the interior color scheme.

Step treads shall be of matching, 3/16 inch transit grade anti-skid material. Integrally molded white nosings are to be furnished on all edges including floor level. Step treads must be designed and installed to exclude any overhanging edge, lip or trim. The vertical riser must be flush where it meets the next step tread. A white line shall be provided across the aisle at the rear of the driver's seat.

Composite thickness: _____

Flooring description,
including manufacturer(s): _____

Floor covering: _____

Comply Yes/No: _____

Doors:

Entrance door mechanism will be electrically operated and controlled by switches mounted within convenient reach of seated driver.

An exterior door key operated switch will be provided next to the entry door.

Entrance doors shall be equipped with interior manual safety release mechanism. This mechanism will permit the door to open in case of an emergency.

Emergency exits complying with FMVSS 217 shall be provided. These exits may be push-out windows, rear emergency door, and/or roof exit.

Comply Yes/No: _____

Windows:

The vehicle shall be an all-window unit. All windows, including emergency escape windows, shall be designed and installed in compliance with FMVSS 217.

Windows shall be bonded and frameless.

Comply Yes/No: _____

Heating and Defrosting
System:

The heating system shall consist of a minimum of three (3) units, one front unit located in the driver's area, one center unit, and one rear unit. The center and rear units shall be integrated into the rooftop air conditioning systems. Total heat shall be a minimum of 120,000 BTU's.

The front unit shall have two heavy-duty blowers to provide sufficient heated air for defrosting of the windshield and for heating the bus. Circulation blowers shall be controlled by a 3-position switch on the driver's control panel, having "off", "high" and "low" positions.

An additional outlet shall be provided near the driver to allow heated air to the driver's area. A lever or knob shall control the distribution of heated air between the defroster plenum chamber and the bus heating outlet. The control shall be located conveniently for the driver.

Combustion-type heaters shall not be permitted.

Manufacturer shall add the required amount of permanent all-weather coolant after heaters have been connected to protect the cooling system to -20°F. Tested at normal engine temperature.

Comply Yes/No: _____

Air Conditioning and
Ventilation:

A complete air conditioning system shall be of a size capable of providing adequate cooling and dehumidifying capacity for passenger comfort. The system must be capable of maintaining a 75°F interior temperature with a full load of passengers, with an ambient temperature of 95°F and 60% relative humidity.

A minimum of 140,000 BTU air conditioning shall be provided. The vehicle shall use the manufacturer's standard front air. The rear air system shall be a dual rooftop combination air conditioning and heat system.

The bus shall be equipped with a fast idle system.

Multiple cool air outlets shall be provided to evenly distribute cool air for passenger and operator comfort.

A ventilator in front of the driver capable of providing ample direct ventilation for the brake and acceleration pedal area during summer operation shall be furnished. It shall be an easy to operate control and shall be accessible to the driver.

A driver's windshield fan shall be provided in the driver's area capable of providing forced air circulation to the driver. The fan shall be operated with an on-off switch and the fan direction shall be adjustable.

Bidder shall furnish complete details of the air conditioning system proposed for this vehicle with the SOQ.

Air Conditioning

BTU: _____

Front description: _____

Rear description: _____

Comply Yes/No: _____

Interior Lighting: Standard OEM lighting shall be provided in the instrument panels and overhead in the driver's area.

The stepwells shall be adequately illuminated. The door step light shall automatically engage when the door is opened. Door step lights not working automatically but turning on with outside lighting are acceptable.

Adequate lighting shall be provided to illuminate the aisles.

Comply Yes/No: _____

Exterior Lighting: All exterior lights must comply with federal and state requirements. Exterior lighting shall include the following, at a minimum:

- Sealed beam headlights with high and low beam
- Front and rear directional signals, operated by a lever on the left side of the steering column and of the self-canceling type
- Two white or clear backup lights in the rear of the vehicle, automatically engaging with the transmission reverse
- Rear-mounted red combination braking and tail lights

- e. Rear center-mounted red brake light located on the center line of the bus below or above rear window
- f. Single white rear license plate light
- g. Front and rear clearance lights
- h. Minimum of six (6) reflectors: two red on rear, one red near rear of each side, one amber near front of each side
- i. Front and rear identification markers, amber front and red rear.

Brake, tail, rear signal, marker, and clearance lights shall be LED.

A switch shall be provided to operate all directional signals simultaneously as an emergency warning signal.

Comply Yes/No: _____

Seats: Passenger seats and restraints shall meet or exceed all applicable FMVSS, including FMVSS 207, 209, and 210 requirements. Passenger seats shall be high back reclining type with leathermate seat covers. Color to be chosen during order process. Each seat shall have a steel frame construction with legs, seat belt anchorage, and attachment hardware.

In-vehicle test reports (for the specific model of seat being used) must be submitted with the SOQ.

All passenger seats shall be mounted with a minimum of 28" hip to knee spacing. School bus seats are not acceptable.

A seatbelt shall be provided for each seated passenger, to comply with FMVSS standards.

The driver's seat shall be of standard manufacture transportation quality with retractable seat belt and a full range of adjustments. The seat cushion and back will contain spring supports and foam padding. The seat will be upholstered in transportation grade perforated vinyl. Seat frame and pedestal are to be covered with non-reflective paint. The seat must meet chassis manufacturer specifications for seating position.

Passenger seats:

Manufacturer: _____

Size: _____

Arrangement (**must attach diagram or photo**): _____

Comply Yes/No: _____

Interior Paneling: All interior panels shall be autocloth. Color shall harmonize with exterior vehicle colors.

The dash and instrument panels shall be finished to harmonize with the overall interior tones.

Comply Yes/No: _____

**Stanchions and
Grab Rails:**

Stanchions and grab rails shall be 1.25" diameter, stainless steel tubing. Fittings shall be constructed of stainless steel, cast aluminum, or approved equal corrosion resistant material. Fittings should be constructed in such a manner as to prevent rattling.

A vertical stanchion shall be mounted from the floor and/or seat level to the ceiling grab rail at the right rear of the driver's seat with a horizontal guard also being provided.

Vertical stanchions shall be mounted from floor and/or seated level to ceiling grab rail at the inside corner of each stepwell with a horizontal hand rail extended from the stanchion to the body side. A right hand grab rail will be provided forward of the entrance door and curved to form a horizontal handrail at the entrance.

A modesty panel shall be installed in front of the right passenger seat.

A partition made of tinted acrylic panel glass shall be installed behind the driver's seat.

All sharp edges, protruding fasteners brackets, etc., that can cause injury or damage clothing must be eliminated.

All stanchions and grab rails are to be attached to the structural post or cross members of the roof to insure maximum strength.

Comply Yes/No: _____

Mirrors: Heated, remote controlled, fully adjustable exterior rear view mirrors, complying with all FMVSS, shall be installed on each side of the vehicle.

Shall include a minimum of one (1) 6"x 9" flat mirror and one (1) 6" diameter convex mirror per side. Stick on type of mirror is not acceptable.

In addition to the standard OEM interior rear view mirror, a 4" x 16" rectangular inside rear mirror shall be installed for the driver's view of the bus interior.

All mirror mountings shall be sufficiently rigid to prevent distortion from vibration.

Comply Yes/No: _____

**Accessories and
Equipment:**

All standard equipment including, but not limited to:

Four (4) complete sets of keys shall be provided

Sun visor – manufacturer's standard (minimum 6" x 26"), adjustable for the windshield in front of the driver and for the driver's side window

Windshield wipers/washer – two (2) heavy-duty, self-parking, electrically operated windshield wipers; windshield washers with a one gallon (minimum) reservoir; system located for easy inspection, maintenance, filling, and removal

Emergency equipment – manufacturer shall furnish a safety kit with the vehicle that includes, at a minimum, the following equipment:

- a. One 5 lb. fire extinguisher
- b. One seat belt cutter
- c. One 36-unit first aid kit
- d. Three triangle safety reflectors
- e. Body fluid clean-up kit
- f. CPR kit to contain gloves, CPR mask, gown, eye shield, face mask, disposable bag, viral towelettes

All emergency equipment shall be mounted to the vehicle so that it is easily accessible by the driver, and will not interfere with passenger movement or comfort when not in use.

Backup and side view camera system – This system shall be complete with a crystal clear color digital 7" TFT-LCD (thin-film-transistor liquid-crystal display) monitor with distance grid lines and mirror image capability, two side CCD cameras with 120° viewing angle and 50' infra-red night vision, one heavy-duty CCD 130° angle backup camera with 18 built-in infra-reds, and all wires,

connectors, and mounts to make the system operational. The system shall be completely weather proof with an IP68 rating, shock resistant, a 20G impact rating, and a full one-year warranty (minimum).

Backup warning alarm – smart alarm system which is activated upon reverse movement of the vehicle, shall be audible above normal outdoor sounds, and meet Federal requirements

Comply Yes/No: _____

Exterior Finish
And Color:

Cab and body shall be manufacturer's standard white. After final assembly, all surfaces requiring paint shall be thoroughly cleaned and primed. Application shall be in accordance with the procedure recommended by the paint manufacturer. The finished surface will be free of dirt, runs and other imperfections.

Comply Yes/No: _____

PA System: Public address system to include a minimum of two (2) inside and one (1) outside speakers

Comply Yes/No: _____

Photos: A photo of the vehicle, if not part of brochure, shall be provided to MDOT with the SOQ.

Comply Yes/No: _____

ADDITIONAL REQUIREMENTS

Service: Vehicle is to be delivered to a licensed Mississippi dealer (see note toward end of the Additional Requirements section) fully assembled and ready to operate. Factory or factory trained dealer representative is to check equipment on delivery and demonstrate to project personnel operational, service, and preventive maintenance requirements.

Final vehicle assembly records and quality control assurances shall be supplied upon delivery.

Acknowledge Yes/No: _____

Authorized Local
Dealer:

Authorized dealer within the State of Mississippi (include dealer name, contact person, address, and telephone number):

Acknowledge Yes/No: _____

Workmanship:

Workmanship throughout the vehicle shall conform to the highest standard of commercially accepted practice for the class of work and shall result in a neat and finished appearance. The design of the body and equipment which the manufacturer proposes to furnish must provide a vehicle of substantial and durable construction in all respects.

Welding procedures, welding materials, and qualifications of operators shall be in accordance with standards of the American Society of Testing Materials and the American Welding Society. All welds

visible to the public shall be ground smooth after the welding to present a smooth, workman-like appearance. Where metal is welded to metal, the contact surface shall be neatly finished.

All exposed surfaces and edges shall be smooth, free from burrs and other projections, and shall be neatly finished. All exposed bolts shall be covered or protected in some manner.

All parts shall be new. Used, reconditioned, or obsolete parts will not be accepted.

Manufacturer shall submit with the SOQ a detailed description and specifications of the frame structure, roof structure, and side sheathing, with particular reference to materials used. All vehicles procured through this contract shall be exact duplicates in design, manufacture, and construction.

Acknowledge Yes/No: _____

Replacement Parts: A supply of replacement parts for the vehicles purchased must be guaranteed by the bidder for a minimum of five years from the date of purchase. Bidder shall keep parts books and manuals up-to-date for a minimum of five years from date of purchase by issuing revised pages or otherwise notifying the State of new or superseding parts and maintenance practices.

Acknowledge Yes/No: _____

Motor Vehicle
Standards:

The manufacturer **shall certify** that the bus complies with all U.S. Department of Transportation safety standards for buses and Interstate Commerce requirements for motor buses operated in interstate commerce that are applicable as of the date of manufacture.

The bus shall comply with all requirements of the laws of the State of Mississippi as to lighting equipment and all warning and safety devices.

The manufacturer **shall certify** that the bus conforms to the air pollution control standards set by the Federal Transit Administration for motor vehicles to be used on FTA projects.

Acknowledge Yes/No: _____

Tests and Testing: The complete vehicle and all working and moving parts and operating devices shall be thoroughly tested and put in operating condition by the manufacturer.

The roof, windows, windshield, and compartment doors of all vehicles shall be water tested in an approved manner, and any leaks found shall be repaired in a workman like manner.

The manufacturer/vendor shall not attach any dealer identification, advertising, or similar material to the vehicle. Prior to acceptance of vehicle by MDOT, the manufacturer shall service and adjust vehicle for operation to include, as a minimum the following:

- a. Focusing lights
- b. Tuning engine
- c. Adjusting accessories
- d. Checking electrical, braking, and suspension systems
- e. Charging battery(s)
- f. Inflating tires
- g. Balancing all wheels, including spare
- h. Completely lubricating engine, chassis, and operating mechanisms with recommended grades of lubricants for the ambient temperature at point of delivery
- i. Servicing cooling system with permanent type antifreeze and summer coolant for -20°F
- j. Servicing windshield washer with fluid and approved additives
- k. Filling of fuel tank upon delivery

Acknowledge Yes/No: _____

Warranty: Chassis warranty shall be a minimum of 36 months or 36,000 miles on the mechanical components of the vehicles, and a minimum of 12 months warranty on the alternator. Body warranty shall be a minimum of 12 months or 12,000 miles.

Clearly stated terms and conditions of all manufacturer warranties shall be included with the SOQ. Any and all materials, specialty equipment, or accessories that prove defective in normal operation within the warranty period shall be replaced or repaired by the manufacturer free of any and all cost to the vehicle operator, including all material, labor, and transportation costs. Warranty replacement and/or repairs shall be furnished promptly by the successful bidder within a time period not to exceed thirty days. **The bidder shall provide written assurance with the SOQ regarding warranty repairs.**

The delivering dealer will have sole warranty responsibility (all components) for the first ninety days after acceptance of vehicle.

The manufacturer shall provide, with the SOQ, a list of warranty service locations within the State of Mississippi for all components of the vehicle (A/C, body, chassis, electrical, wheelchair ramp, wheelchair tie downs, etc.) which may need warranty repair beyond the first ninety days.

Acknowledge Yes/No: _____

Inspection: MDOT reserves the right to inspect all material and workmanship at all times during the process of vehicle assembly.

Final inspection and acceptance of the vehicle(s) covered by these specifications shall be made by MDOT.

Acknowledge Yes/No: _____

Delivery: Based on reasonable production time and with due consideration to unforeseen circumstances, the State shall expect that delivery on initial unit(s) covered by these specifications will be made within one hundred twenty (120) days of placement of purchase order and the remainder of the units one hundred eighty (180) days, unless otherwise specified in the Request for Quotes formal (RFQF).

Acknowledge Yes/No: _____

FOB Point: For RFQF purposes, all vehicles shall be delivered FOB Mississippi dealer. "Caravan" or "driveway" deliveries straight from the manufacturer will not be accepted. A pre-delivery in-service inspection shall be performed by the vendor before delivery to MDOT. Each unit shall be delivered completely assembled and ready to operate.

Acknowledge Yes/No: _____

Documents: Each vehicle shall be delivered with completed Certificate of Origin, tag application, warranty, and any other necessary credentials.

Final vehicle assembly records and quality control assurances shall be supplied upon delivery.

Acknowledge Yes/No: _____

Literature: Technical manuals: The following **shall be provided upon delivery** for each vehicle delivered. These items shall be provided "as built" for each individual unit delivered. Each of these items shall be kept up-to-date for a minimum of five years.

- a. Operator's manual
- b. Service/maintenance manual
- c. Parts book
- d. Parts interchange manual
- e. Wiring schematic diagram

- f. Schematics/drawings for all accessories and equipment not listed in operator's manual

Acknowledge Yes/No: _____

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NOTE:

Any company manufacturing, up-fitting, and/or selling a finished motor vehicle in the State of Mississippi must be in compliance with the rules and regulations of the Mississippi Motor Vehicle Commission (MMVC) prior to the SOQ review.

A copy of licenses as required by the MMVC should be supplied with SOQ. Licenses will be verified prior to award.

Mississippi Dealer's License Number: _____

MMVC Manufacturer's License Number (where applicable): _____

Application and contact information may be attained through the MMVC website:
<https://www.mmvc.ms.gov/>

Acknowledge Yes/No: _____

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Vehicle Title or

Certificate of Origin: To be assigned to the receiving project with applicable name and address

Lienholder: The following shall be listed as the **1st Lienholder on the Title Application:**

Mississippi Department of Transportation
Public Transit Division 6101
401 North West Street
Jackson, MS 39201-1010

To be mailed to:

Mississippi Department of Transportation
Public Transit Division, 6101
P.O. Box 1850
Jackson, MS 39215-1850

Acknowledge Yes/No: _____