BUS, MOTOR, 16 PASSENGER

The General Services Administration has authorized the use of this commercial item description.

Scope This Commercial Item Description (CID) describes a diesel powered, surrey-type bus for transporting passengers and their luggage on short-haul operations on base, and trips off base such as to and from airports.

Applicable documents

The following documents, of the issue in effect on date of invitation for bids or request for proposal, form a part of this commercial item description to the extent specified herein:

Standards Military MIL-STD-1178 - Standard Safety Devices for Administrative Automotive Vehicles

Other publications. The following documents form a part of this commercial item description. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

DEPARTMENT OF TRANSPORTATION (DOT)

Compliance with Interstate Motor Carrier Noise Emission Standards.
Federal Motor Carrier Safety Regulations.
Federal Motor Vehicle Safety Standards.

ENVIRONMENTAL PROTECTION AGENCY (EPA)

Control of Air Pollution from New Motor Vehicles and New Motor Vehicle Engines.

(Application for copies should reference the Code of Federal Regulations, 40 CFR, and the Federal Register and should be addressed to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.)

SAE, INC.

SAE Standards and Recommended Practices.

J381	-Windshield Defrosting Systems Test Procedure - Trucks, Buses, and Multipurpose Vehicles.
J382	-Windshield Defrosting Systems Performance Requirements - Trucks, Buses, and Multipurpose Vehicles.
J551	-Limits and Methods of Measurement of Radio Interference Characteristics of Vehicles and Devices (20-1000 MHz).
J552	External Electromagnetic Radiation Suppressors.
J588	-Turn Signal Lamps.

J589	-Turn Signal Switch.
J816	-Engine Test Code - Spark Ignition and Diesel.
J1349	-Engine Rating Code - Spark Ignition and Diesel.

(SAE Standards and Recommended Practices are available from SAE, Inc., 400 Commonwealth Drive, Warrendale, PA 15096.)

(Technical society and technical association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal Agencies.)

Salient characteristics. The vehicle described by this CID is roomy, comfortable, economical and highly maneuverable with a no-stoop entry for passenger and carry-on luggage. Vehicle must be procureable as an "off-the-shelf", commercially produced, readily available item (as evidenced by the manufacturer's brochure). Vehicle must comply with listed applicable documents or their respective commercial counterparts.

1. Roomy. Seating configuration must be perimeter type in order to provide maximum passenger comfort. An interior luggage storage rack shall be provided. Passenger compartment width to be not less than 93 inches with head room at interior aisle to be not less than 74 inches. (Above are considered minimum dimensions for the required 16 adult capacity.

2. Economical. The engine furnished must allow for maximum fuel economy when taking into account the passenger miles traveled at normal speeds (approximatedly 35 miles per hour on base; and 55 mph off base).

3. Maneuverability. The turning radius must not exceed 29.0 ft with 157 inch wheel base chassis, or 24.0 ft with 125 inch chassis.

4. Passenger Comfort and Safety.

a. Seating must provide maximum passenger comfort within state of the art seating construction for perimeter seating.

b. Heating and air conditioning (for both driver and passenger compartments) will be provided.

c. Windows. Rear windows to be provided with AS-2 clear tempered safety sheet glass. Side window to be furnished meeting escape opening, performance, and operational requirements of Federal Motor Vehicle Safety Standard 217. (Emergency operation decals are to be included).

d. Passenger compartment shall meet DOI noise emmission standards.

e. Driver and passenger compartments shall meet the requirements of the Federal Motor Vehicle standards and regulations as listed above.

5. Passenger entry door to be at least 73 inches high from top of first step to entrance header with clear entrance width not less than 28 inches.

Door(s) to be readily accessable to, and operated by, the driver. Door to have "saf-latch" type handle to prevent accidental opening.

6. Floor. The floor is to be covered with exterior plywood (BC) at least 1/2 inch thick with sealed edges. Stepwell, entrance area and center aisle floor to be overlayed with 3/16 ribbed rubber. Wheelhouse end underseating areas to be covered with 1/8 inch, smooth anti-skid rubber. Floor covering moulding and trim to be installed so as to provide maximum ease in cleaning.

7. Bumpers. Rear bumper to be a minimum 8 inch die-formed, 3/16 (minimum) thick, mounted to chassis frame with double A-frame bracing at each corner to resist blows from both side and rear. Front bumpers to be supplied by chassis manufacturer.

8. Mirror. An interior mirror 5" x 16" minimum shall be provided to enable driver to view the passengers. Mirror to be backed with metal and framed with rounded corners and protected edges.

9. Driver's seat to be of high back design, bucket type equipped with retractable seat/shoulder belt.

10. Heating. A hot water heating system shall be installed with adjustable manual controls to permit outside air recirculated air, or variable mixtures as desired (to circulate through at least the main heater core), to provide and maintain comfortable temperatures to driver's and passenger compartments, so that no objectionable flow is directed toward any passenger. Heater hoses shall be shielded from the passenger compartment and located in protected positions. Auxiliary recirculating heater(s) shall be provided if required to assure passenger comfort.

11. Air conditioning.

a. Driver's forward area air conditioning shall be supplied by Chassis manufacturer. Capacity to be approximately 14,000 BTU/hr.

b. Passenger compartment air conditioning shall be provided by the manufacturer to assure a minimum cooling capacity of 40,000 BTU/hr total for passenger compartment and driver's area combined. Cooling air to be ducted to passenger compartment and equipped with outlets with shut off provisions to enable individual passenger controls.

12. Wiring. All body wiring shall be color coded and routed inside the body; and all body circuits are to be protected by resetting circuit breakers. Electrical controls shall be mounted above driver's line of vision and be illuminated.

13. Chassis.

a. Wheelbase to be 125 inch minimum.

b. Unless otherwise specified, engine to be compression ignition two stroke or four-stroke cycle diesel, with not less than four cylinders.

Engine net horsepower used in performance prediction calculations shall be determined in accordance with SAE J816. and J1349. A fan clutch to reduce fan speed automatically, when not required for engine cooling, shall be provided.

c. Automatic transmission. A continuous drive, automatic transmission shall be provided. The transmission shall include a hydraulic torque converter and not less than three forward and one reverse gears. Normal driving range select or position shall provide not less than three forward gear ratios without movement of the selector.

14. Needle type gauges. Gauges (lights in lieu of gauges not acceptable) as follows will be installed so as to be easily monitored by the driver:

a. Voltmeter.

b. Oil pressure gauge.

c. Water temperature gauge.

d. Fuel quantity gauge.

15. Wipers. Two speed electric windshield wipers and dual jet washers will be supplied by the chassis manufacturers.

16. Windshield Defroster. Defroster outlets with suitable connections and blower(s) shall be furnished to provide an adequate flow of air to both halves of the windshield. The windshield defrosting systems shall conform to SAE J381 and SAE J382.

17. Turn signals. Turn signal lamps shall be installed conforming to SAE J588. Operating units shall conform to SAE J589, class A, and shall be mounted on the steering column. Vehicle shall be provided with double-faced front signal units or single-faced front signal units in conjunction with armored, amber turn signals over the front wheelwells, and with single-faced rear signal units. Signal units shall be installed in accordance with SAE J588, except that turn signals shall not be mounted on the engine compartment hood. Operating units shall be provided with a visible and audible flash indicator. Turn signals shall be of the self-cancelling type.

18. A warranty for 12,000 miles, or one year minimum on chassis and one year body construction and add-on components shall be provided. Warranty period shall start the date the vehicle is placed into operation by the purchaser.

Certification.

The contractor shall certify that the product offered meets the salient characteristics of this description, and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices and is the same product offered for sale in the commercial marketplace. The government reserves the right to required proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

Packaging: Packing and marking.

Preparation for shipment will be per manufacturer's standard commercial practice.

Custodians:

Air Force - 99
Army - AT
Navy - YD

PREPARING ACTIVITY:
Air Force - 84

(Project: 2310-F430)

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