



INYO COUNTY FREE LIBRARY

Serving the Eastern Sierra Since 1913

168 NORTH EDWARDS STREET
POST OFFICE DRAWER K
INDEPENDENCE, CALIFORNIA 93526

Inyo County Free Library Bookmobile Specification Sheet

1. Overview

1.1. The Inyo County Free Library is soliciting competitive proposals from vendors specializing in customized vehicles for the purchase of one (1) Daimler manufactured Sprinter 2500 Cargo Van upfitted for the purpose of the transportation of library materials. Completed vehicle must be delivered to Library no later than March 2022.

1.2. Exceptions

1.2.1. Use of manufacturer brand names and model numbers are provided to illustrate preferences and establishing general quality standards. They are not intended to be restrictive.

1.2.2. Assembly of the unit must be in accordance with manufacturer specifications and installation instructions and shall conform to the best standard practices in the specialty vehicle construction industry.

1.3. Proposal Requirements

1.3.1. Vendor should be ISO 9001 certified. A copy of the vendor's certification should be provided with their proposal.

1.3.2. Vendor must be a Daimler approved Master Upfitter for Mercedes Sprinter Vans.

1.3.3. Vendor shall transport vehicle to Library and provide full training of the operations of the vehicle at the time of delivery. Representative will train Library staff on vehicle, bumper to bumper, including the safe and proper startup and shutdown of the vehicle.

2. Chassis Specifications

2.1. One (1) 2021 or newer Daimler Sprinter 2500, rear-wheel drive, diesel, high-roof, cargo van.

2.2. Dimensions

2.2.1. Overall exterior length: 19 feet (approximate)

2.2.2. Overall exterior width: 80 inches (approximate)

2.2.3. Overall exterior height: 117 inches (including AC unit)

- 2.2.4. Interior load space length: 133 inches (approximate)
- 2.2.5. Interior headspace: 73 inches (approximate)
- 2.2.6. Interior Width: 70 inches (approximate)
- 2.3. Wheelbase: 144 inches
- 2.4. Single channel frame, 36,000 PSI
- 2.5. 3.0L V-6 DOHC Diesel Engine
 - 2.5.1. 188HP @ 3,800 RPM
 - 2.5.2. 325 lb-ft @ 1,400 - 2,400 RPM
 - 2.5.3. Intercooled Turbo
- 2.6. 7G-Tronic Plus Transmission
- 2.7. Rear-wheel drive
- 2.8. 12V, 220A alternator
- 2.9. 850CC engine battery
- 2.10. Front and Rear disc brakes with ABS
- 2.11. 24.5 Gallon fuel tank
 - 2.11.1. Driver's side fuel fill
 - 2.11.2. "Diesel Fuel" label permanently mounted near the fuel fill
- 2.12. Anti-freeze protection, ethylene glycol, 50/50, to -34 deg F
- 2.13. Power steering
- 2.14. Rack and Pinon
- 2.15. Adjustable tilt steering column
- 2.16. 16" x 8.5 silver steel wheels
 - 2.16.1. All season tires
- 2.17. Driver Convenience Package
- 2.18. Cruise Control
- 2.19. Trailer cross-member, NAFTA, minimum towing capacity 5000lbs
- 2.20. Driver's and Co-Drivers door armrest
- 2.21. Parametric Special Module
- 2.22. Paint Color: White, Grey, Silver, or Metallic Silver; variations from this color must be approved by Library
- 2.23. Rear Doors opening 270 doors
- 2.24. Curb side sliding door or bus door
- 2.25. Full size spare tire mounted underneath rear of the vehicle
- 2.26. Backup camera
- 2.27. Backup alarm
- 2.28. Electric slide-out step beneath curbside sliding door (manual emergency

release preferred)

2.28.1. Interior grab rail installed on right side of stepwell (if not standard on manufactured chassis)

2.29. Minimum of 4 sets of keys

3. Upfit Specifications

3.1. Exterior Graphics Package

3.1.1. The vendor shall provide pricing for a “full” exterior graphic wrap, minimum of 2 unit panel wrap. Pricing must include the cost of the materials, design and installation

3.2. Interior

3.2.1. The interior of vans sidewalls and roof will be insulated to enhance the performance of the heating and cooling systems and prevent external noise from entering the vehicles interior. The insulation on the roof shall be rated a minimum of R38 and sidewalls shall be rated a minimum of R22, non-settling type, vermin-proof, mildew-proof, fire retardant, non-toxic and non-hygroscopic.

3.2.2. Finished ceiling to be covered with Kemlite .090 FRP lining or equivalent.

3.2.3. Finished floor to be covered with a non-skid commercial grade PVC flooring. The flooring is to be a continuous piece from the front to the back. The Library will determine the color and material from the Vendors material selections that are provided. The subfloor shall be marine-grade plywood.

3.2.4. Walls to be covered with laminate finish selected by the Library from Vendors provided materials.

3.2.5. An Acore Shelving system or equivalent shall be installed and will consist of the following items:

3.2.5.1. Six (6) slotted aluminum uprights, customized to follow the curvature and angles of the Sprinter walls

3.2.5.2. Shelving is anticipated to be a combination of 7” and 9” depths as specified by the Library (as interior dimensions allow)

3.2.5.2.1. Ten (10) , 9” x 36” aluminum bookshelves preferred

3.2.5.2.2. Twelve (12), 7” x 36” aluminum bookshelves preferred

3.2.5.3. One (1) Single sided aluminum bookcart with three (3) shelves.

3.2.5.4. All shelving to be constructed from lightweight materials and be built to withstand the unique stresses imposed by a mobile environment. All shelving running along the sidewalls of the vehicle shall tilt back approximately 15 degrees.

3.2.6. Minimum One (1) cabinet (IT), finish selected by Library from Vendors

- provided materials (wood type finish preferred)
- 3.2.7. Minimum One (1) cabinet (storage), finish selected by Library from Vendors provided materials (wood type finish preferred)
- 3.2.8. One (1) fold down desk, customized as space allows
- 3.2.9. Two (2) L-track cargo tie-down tracks shall be recessed into the floor along both sides of the rear area as long as possible. Ratchet straps and tie down anchors will be supplied for any extra bookcarts that the Library may purchase.
- 3.2.10. One (1) aluminum manual fold-out style ramp with built-in spring assist (Link Ramp model LB20-42-108SA or equivalent) will be installed in front of the rear swing doors for the loading and unloading of bookcarts and materials.
- 3.3. Electrical System 120/240V AC
- 3.3.1. One (1) 30A, 120V, waterproof shore power inlet, with a minimum of 25 feet shore power cord with 15A reducing adapter
- 3.3.2. One (1) Rooftop mount air conditioner, 15,000BTU, low-profile, “rough neck”
- 3.3.3. One (1) 1,500 BTU toe heater to be installed on the interior.
- 3.3.4. One (1) 3KW M.E.P.S. engine driven generator to power the interior and exterior receptacles and the rooftop air conditioner
- 3.3.5. Two (2) 120V Duplex outlets installed on the interior. Location to be determined by the Library and as design allows.
- 3.3.6. Two (2) 120V Duplex outlet with GFCI protection and weatherproof cover to be installed on either side of the vehicle. Location to be determined as design allows with prior approval by the Library.
- 3.4. 12V DC Electrical System
- 3.4.1. Two (2) Whelen M6 LED scene lights or equivalent, with 15 degree chrome bezels shall be installed on the curbside, front and rear.
- 3.4.2. LED flush mount lights will be installed on the interior in the ceiling in the rear portion of the vehicle.
- 3.4.3. One (1) Fantastic Vent or equivalent, 3-speed, reversible roof vent with automatic dome and automatic rain sensor.
- 3.4.4. One (1) electric awning (minimum 10ft preferred) with auto retract shake sensor, mounted on the curbside roof over the sliding door. Color choice to be determined by the Library. Support arms, if any, shall not extend below 7ft.
- 3.4.5. One (1) Public address system with two weatherproof exterior speakers to be installed. System shall have the ability to play audio from the dash radio, a handheld wired microphone, and an auxiliary input for external devices.

- 3.4.6. One (1) group 24 deep-cycle battery to be installed under the hood. Charging shall be by vehicle alternator and by battery conditioner.
- 3.4.7. Unit to be configured as solar-ready for after-market portable solar panels.
- 3.4.8. All 12V wiring shall be THHN stranded, bundled, color-coded and numbered.
- 3.4.9. One (1) commercial duty fan cooled power converter, 75 amp output, Iota or equal.
- 3.4.10. 12V DC control panel with UL listed magnetic/hydraulic circuit breakers
- 3.4.11. 2-gauge minimum copper stranded battery cable to be used for 12V DC main supply lines. All cable runs to be full length, no splices. All cable is to be enclosed in convoluted polyethylene tubing and the ends of the cable sealed with color coded shrink wrap identifying the function of the cable.
- 3.4.12. All added electrical circuits shall be protected from over current by resettable circuit breakers appropriately rated for the load. Circuit breaker function shall be clearly designated by printed labels. Care shall be taken to ensure the electrical system can be easily serviced in the future.
- 3.4.13. All wiring shall be numbered or lettered on 6" centers minimum.
- 3.4.14. All wiring is to be protected from chafing and abrasion. Extreme care shall be taken to avoid any high-heat items that may subject the wiring to severe overheating during long periods of operation. Including but not limited to areas such as the engine manifold, engine exhaust, and muffler.
- 3.4.15. Where wire passes through sheet metal, bulkheads and structural supports, plastic grommets shall be used to protect both wiring and wire looms.
- 3.5. WiFi connectivity package to include:
 - 3.5.1. One (1) Cradlepoint Dual Modem/Router IBR900 (or equivalent)
 - 3.5.2. One (1) Antenna
 - 3.5.3. One (1) Booster

4. Warranty

- 4.1. Conversion: Minimum 2-year limited warranty
- 4.2. Chassis/body: 3 years/36,000 miles