



STATE OF CALIFORNIA

Bid Specification Supplement

Neighborhood Electric Vehicle (NEV)

1.0 SCOPE

This specification covers the minimum requirements for a low speed Neighborhood Electric Vehicle (NEV). These vehicles will be primarily used to transport people and light cargo in the State of California on city/county roads with posted speed limits not exceeding 35 mph. The vehicle(s) shall be designed to operate under typical ambient temperatures and weather conditions encountered in the State.

2.0 CLASSIFICATION

Vehicles covered by this specification shall be electric powered and be classified as a zero emission vehicle (ZEV). Vehicles shall meet the minimum criteria pertaining to passenger and cargo capacity as specified below.

Classification	Number of Passengers	Cargo/Bed Length
3-5 Door Automotive Type Hatchback	2-4	N/A
2 passenger	2	N/A
4 passenger	4	N/A
Short Utility	2	44"W x 34"L
Long Utility	2	44"W x 60"L

3.0 SPECIFICATIONS AND STANDARDS

Specifications and standards referenced in this document in effect on the opening of the Invitation for Bid (IFB) form a part of this specification where referenced.

4.0 SAFETY

Each vehicle delivered shall conform to the Federal Motor Vehicle Safety Standards (FMVSS) and the California Vehicle Code (CVC) requirements for low speed vehicles (LSVs) in effect as of the date of manufacture.

5.0 EMISSION CONTROL

Each vehicle shall be certified by the California Air Resources Board (CARB) as a Neighborhood Electric Vehicle.

6.0 REQUIREMENTS

6.1 General Requirements:

Each vehicle shall be new, current model year production and equivalent in style, quality and appointments to those offered to the general public. The vehicles shall be supplied with all equipment and accessories indicated as standard equipment in the manufacturer's published literature.

All equipment/options are to be factory installed. If the equipment/options are not available factory installed, dealer installed equipment/accessories may be acceptable. The bidder is to specify items that will be dealer installed.

6.2 Definitions:

ZEV: Zero Emission Vehicle.

NEV: Neighborhood Electric Vehicle CARB Certified. A type of low speed vehicle (LSV). Speed from 20-25 mph, Urban Dynamometer Driving Schedule (UDDS), California Air Resources Board (CARB) range Certification of 25 miles and legal only on streets with posted speed limits not exceeding 35 mph. Eligible for CARB ZEV credits.

6.3 Motor: The drive train shall consist of an AC or DC electric motor and may include a gearbox or comparable transmission.

6.4 Electrical Equipment: Each vehicle shall be equipped with a 12-volt electrical accessory system designed to handle the load requirements of the vehicle, equipped with options specified herein. The battery(s) shall be the maintenance free, deep cycle with the appropriate capacity as recommended by the manufacturer.

Vehicles may be equipped with a high-voltage electrical system for the electric motor but shall be designed to operate using standard automotive lights, radios, horn, etc.

6.5 Transmission/Driveline: Each vehicle shall be equipped with the manufacturer's standard automatic type transmission providing a 25 mph maximum forward speed. A reverse mode is also required.

6.6 Brakes: Each vehicle shall be equipped with manufacturer's standard four-wheel hydraulic brake system with regenerative design. Regenerative brakes shall reclaim, store and reutilize the energy generated during braking of the vehicle. A parking brake shall also be included.

6.7 Wheels and Tires: Each vehicle shall be equipped with the OEM's standard tubeless type tires mounted on approved rims. All four primary tires and wheels shall be identical (i.e., no cross brands or models).

Note: If wheel weights are used, wheel weights must be of a non-lead type material.

6.8 Energy Storage: Battery capacity shall be adequate to provide a travel distance of 25 miles under normal driving conditions (depending on temperature, grade and driving style). Each vehicle shall include an on-board charger capable of a full recharge within 8 hours. Charger shall be designed to be plugged into a standard 110 - 120 VAC "wall" outlet as found in any home/office.

6.9 Body/Cab: Each vehicle shall utilize a purpose built, lightweight body. The vehicle shall be designed and manufactured as a true, dedicated Neighborhood Electric Vehicle (NEV). The NEV shall have a Gross Vehicle Weight Rating (GVWR) of less than 3,000 pounds. Modified golf carts are not acceptable. The utility bed shall utilize a flat, metal platform with a load capacity of 250 lbs.

- 6.10 Exterior Color:** The exterior color shall be the manufacturer's standard production colors. Individual vehicle color may vary and should be specified on the purchase order. If the exterior color is not specified, the default color shall be white.
- 6.11 Interior/Seat Upholstery:** Seat(s) shall be manufacturer's standard upholstery. Cloth or vinyl is acceptable.
- 6.12 Miscellaneous Equipment:** The following items, supplementing if necessary, those items already cataloged as standard equipment, shall be furnished and in place:
- Keyed Ignition
 - State of charge indicator
 - Dome Light (Switched)
 - Accessory Plug
 - Charging cord
 - Inside rearview mirror
 - Outside adjustable rearview mirrors, left and right
 - Lighting: Headlamps, front and rear turn signals, brake and tail lamps
 - Automotive type safety glass windshield with wiper
 - Owner's/Operation Manual