STATE OF CALIFORNIA

Bid Specification
< **Truck, Medium-*and Heavy-Duty*, Cab and Chassis,**
< **25,950-lb. to *54,000*-lb. GVWR**

1.0 SCOPE

This specification covers the State of California minimum requirements for two-wheel drive, conventional cab, truck cab and chassis models having a Gross Vehicle Weight
< Rating (GVWR) from 25,950-lb. ***to 54,000-lb.*** These vehicles will be primarily used as work vehicles and will have various types and configurations of bodies mounted to the truck frame. All vehicles will operate in the State of California on typical State highways and city/county roads and shall be designed to operate under typical ambient temperatures and weather conditions encountered in the State.

2.0 CLASSIFICATION

Truck cab and chassis' shall be grouped by GVWR. All trucks shall be equipped with a conventional cab and dual rear wheels (DRW). Vehicles offered must meet or exceed these table values as established by group.

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Cab and Chassis (4x2)	**Group I**		**Group II**	**Group III**	***Group IV (6 x 4)***
GVWR	***25,950-lb.***		***30,000-lb.***	***33,000-lb.***	***54,000-lb.***
GAWR:	OR**				
Front	8,500-lb.	8,000-lb	9,000-lb.	12,000-lb.	***14,000-lb***
Rear	17,500-lb.	19,000-lb	21,000-lb.	21,000-lb.	***40,000-lb***
Cab to Axle	102"		108"	120"	***138"***
Engine: HP Torque	230 HP 560 lb.-ft.		260 HP 800 lb.-ft.	300 HP 860 lb.-ft.	***350 HP*** ***1100 lb-ft***
Transmission	5-Speed Auto		5-Speed Auto	6-Speed Auto	***6-spd Auto***
GCWR*	OEM Standard		50,000-lb.	55,000-lb.	***80,000-lb***
Frame Strength	850,000 in-lb.		1,250,000 in-lb.	1,800,000 in-lb.	***2.0 mil in-lb***
Brake Type	Hydraulic		Air	Air	***Air***
Non-Lead Wheel Weights	**Not Required**		**Not Required**	**Not Required**	**Not Required**

* Gross Combined Weight Rating (see section 4.9)
Wheelbase shall be as required to accommodate regular cab and cab to axle dimension.
**GAWR must meet or exceed minimum requirements for GVWR.

3.0 APPLICABLE SPECIFICATIONS

Specifications and standards referenced in this document in effect on the opening of **the**

< **Request for Proposal (RFP)** form a part of this specification where referenced. Each vehicle delivered shall be fully compliant with all Federal and State regulations for incomplete truck cab and chassis in effect as of the date of manufacture.

3.1 **Safety**: Each vehicle delivered shall conform to the Federal Motor Vehicle Safety Standards (FMVSS) and the California Vehicle Code (CVC) requirements for incomplete vehicle truck cab and chassis in effect as of the date of manufacture.

3.2 **Emission Control**: ***The engine shall be California Air Resource Board***
< ***(CARB) certified to operate on-highway in the State of California at the time of manufacture without emission credits; and, shall meet all current Federal "Tier" emission requirements.***

4.0 REQUIREMENTS

4.1 **General**: Each vehicle shall be new, current production. Each vehicle shall be supplied
< with all equipment and accessories indicated as standard equipment in the manufacturer's published literature unless specifically deleted as stated in this specification or **Request for Proposal (RFP)**. Optional equipment necessary to meet the minimum requirements of this specification shall be installed.

Navigation systems, satellite radio systems and entertainment/communication/cell phone systems offered as standard equipment by the manufacturer are not required and may be deleted (e.g. Onstar).

4.2 **Engine:** Each vehicle shall be equipped with the manufacturer's standard diesel engine that meets the minimum requirements for horsepower and torque as listed by group. The engine shall be equipped with OEM heavy duty air filtration system.

4.3 **Cooling System:** The cooling system shall be a liquid pressurized, forced circulation type. A coolant recovery system shall be furnished. The cooling system shall provide protection from ambient temperatures ranging from 0°F to 120^{0}F.

4.4 **Electrical Equipment:** Each vehicle shall be equipped with a heavy-duty 12-volt electrical system specifically designed to handle the load requirements of a vocational vehicle equipped with the specified options. The alternator shall be rated at not less than 100 amps. The batteries shall be a maintenance-free type having a minimum of 2 each 600 CCA at 0°F with a reserve capacity of not less than 90 minutes per SAE J537.

Each vehicle shall be equipped with temporary rear tail and stop lights. The rear lights shall plug into the main electrical lighting harness and provide a minimum 12" length of additional electrical wiring to relocate and reuse the lights on the body, if necessary. The rear electrical harness shall also provide provisions for connecting a 7-wire trailer plug.

4.5 **Transmission/Driveline:** Each vehicle shall be equipped with the manufacturer's standard automatic-overdrive type transmission as specified by group and shall include the manufacturer's standard power take-off (PTO) provision. Each vehicle shall also be equipped with an auxiliary air/water to oil transmission cooler if available and installation will not void transmission manufacturer warranty.

4.6 **Steering:** Each vehicle shall include the manufacturer's standard power-assisted steering.

4.7 **Brakes:** Each vehicle shall be equipped with the manufacturer's standard power assisted service brakes as specified by group with a four wheel, electronic anti-lock brake system (ABS).

4.8 **Wheels and Tires:** Each vehicle shall be equipped with the OEM's standard tubeless type radial tires mounted on OEM approved rims. Wheels shall be as recommended by the Tire and Rim Association, Inc. and the tire manufacturer for the GVWR specified. Wheel weight rating shall be compatible with the axle and tires. Tires shall be the highway tread design and mounted so that the black-wall side is facing out. Each vehicle shall be equipped with a full-size spare wheel strapped to the vehicle or shipped loose.

4.9 **Axles/Springs/Frame:** The suspension system shall include heavy-duty rear main and
< auxiliary springs and front and rear shock absorbers. ***Rear tandem axles shall utilize equalizer-type suspension.***

Upon request and prior to any purchase order, the bidder shall provide a certified Gross Combined Weight Rating (GCWR) from the manufacturer of the vehicle requested. This rating concerns the maximum allowable body/payload weight and load position as it relates to the towing capacity and other tow vehicle/trailer limitations. The certification document shall also be included with the documents at delivery indicating the actual VIN number.

Vehicles must be certified by the manufacturer as an "incomplete vehicle" in accordance with applicable Federal Regulations.

Rear axle ratio shall provide as close to, but not exceed a 65-MPH cruising speed with the engine at manufacturers rated RPM and the transmission in its highest overdrive gear.

Front and rear axle ratings shall be provided to the ordering agency prior to purchase order.

4.10 **Trailer-Towing Package Option:** Any vehicle may be ordered with a trailer towing option. Vehicles ordered with a trailer towing option shall be equipped with rear air lines (as required) and a 7-wire, trailer electrical harness.

4.11 **Four Wheel Drive Equipment**: Any vehicle ***in Group I, II or III*** may be ordered as a
< four-wheel drive configuration at the time of purchase order. Four-wheel-drive models shall be equipped with manual or automatic locking front wheel hubs and a part time transfer case with manual or automatic engagement to provide power transfer to the front and rear wheels.

4.12 **Fuel Tank:** The total fuel capacity shall not be less than 45 gallons. ***6 x 4 chassis shall***
< ***have not less than 70 gallon fuel capacity***. If the manufacturer's standard fuel tank does not meet the minimum requirement, then the vehicle shall incorporate an increased capacity tank or an optional auxiliary tank to meet or exceed the specified capacity. Fuel tank modifications must not void the vehicle manufacturer's warranty. The switchover

control for the auxiliary fuel tank, if used, shall be mounted on the dash in a position easily accessible to the operator. Note: Fuel tank size and location may change when required for final body installation.

4.13 **Air Conditioning:** Each vehicle shall be equipped with the manufacturer's standard, factory installed, CFC free, dehumidifying/all weather air-conditioner.

4.14 **Body/Cab:** A body is not required. The cab shall be of the conventional design, fully enclosed regular cab configuration equipped with 2 doors and seating for two adults.

Any truck group may be ordered as a crew cab configuration. This option will be identified on the agency purchase order. A crew cab vehicle is defined as having 4 full-size doors with center post that can open independently, allow egress of the rear passengers without disturbing the front passenger/driver and seating positions for 5-6 adults.

4.15 **Exterior Color:** The exterior color shall be selected from the manufacturer's published listing of factory available colors. The agency will identify the paint color and scheme on the purchase order. If the exterior color is not specified, the default color shall be white.

4.16 **Interior/Seat Upholstery:** The interior color shall be the manufacturer's standard color supplied with the exterior color specified on the order. Seat upholstery shall be vinyl with cloth inserts or all cloth.

4.17 **Miscellaneous Equipment:** The following items, supplementing if necessary those items already cataloged as standard equipment, shall be furnished and in place.

- Multi-speed fresh air ventilator with heater and windshield defogger system.
- Seat belts for all seating positions.
- Full floor covering.
- Headliner and door liners.
- Sun visors for both driver and passenger positions.
- Dome light, door activated.
- Right and left side exterior rear view mirrors shall be manufacturer's standard.
- Manufacturer's standard AM/FM radio with antenna.
- Standard factory front bumper.
- Two speed and intermittent windshield wipers; windshield washer.
- Tilt steering wheel.
- Speedometer and all necessary gauges.
- Passenger side glove compartment or storage net.
- 12-Volt DC power outlet in front compartment
- Cruise Control

< Manufacturer's standard exhaust brake for Group III and ***Group IV*** trucks only.