



STATE OF CALIFORNIA
Department of General Services - Office of Procurement

PURCHASE ORDER

Purchase Order No. Rev. Date
62144 6/30/2008

Form GSOP 1-PIN (04/98)

Supplier No.	Solicitation No.	Delivery Date	FOB Point	Invoice Terms
165197	57023	240 Days ARC	Destination	
S DEPT OF TRANSPORTATION h T DIV OF EQUIPMENT i o 1920-35TH STREET P SACRAMENTO, CA 95816 Attn: EQUIPMENT RECEIVING		C CALTRANS-ACCTG/OFC B-15 h a T. EQUIPMENT RECEIVING r o PO BOX 160048 g e SACRAMENTO, CA 95816		
Agency Billing		Agency Purchase Estimate	Purchase Estimate	Revision
60063		32-12-5228	67276	1
Agency Contact		Phone	Date Received	
RICHARD PEDERSEN		916-227-9639		

RIVERVIEW INT'L TRUCKS INC
PO BOX 716
W SACRAMENTO, CA 95691

Phone: 916-371-3110

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension
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THE GENERAL PROVISIONS FOR NON-IT COMMODITIES ARE HEREBY INCORPORATED BY REFERENCE. THESE GENERAL PROVISIONS CAN BE OBTAINED BY PHONING (916) 375-4400 OR BY ACCESSING OUR WEBSITE AT:

www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf

THE FOLLOWING INFORMATION IS PROVIDED FOR AGENCY USE ONLY:

PRIME CONTRACTOR: NS

FISCAL YEAR: 2007/2008

FOR THE PURPOSE OF THIS AWARD, ONLY F.O.B. Destination will be accepted.

This Purchase order has been registered into the state contact and procurement registration system (<https://www.scprrs.dgs.ca.gov/>). The registration number is: 17600908332207.

NOTE: Attachments accompany this PO as follow:

SPECIFICATIONS

ATTACHED #05321-123-071T OF TWELVE (12) PAGES

OPTIONS

ATTACHED OF FIVE (5) PAGES.

ADMINISTRATIVE

ATTACHED REQUIREMENTS OF SEVEN (7) PAGES

CALTRANS IN-SHIP WARRANTY AGREEMENT

ATTACHED REQUIREMENTS OF ONE (1) PAGE

CONTACT INFORMATION (1 PAGE)

ATTACHED REQUIREMENTS OF ONE (1) PAGE

FEDERAL CERTIFICATION

Final stage manufacturers shall be certified by National Highway Traffic Safety Administration and be registered to manufacture or alter vehicles in accordance with the code of Federal Regulation, Title 49, Parts 567-568..

1	1	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).	89,998.0000	89,998.00
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Sales and/or use tax to be extra unless noted above

Buyer	Phone	BOC Number
fr TIM BATTON	916-375-4412	

STATE OF CALIFORNIA

Department of General Services - Office of Procurement

PURCHASE ORDER CONTINUATION

Form GSOP 2-PIN (04/98)

<i>Purchase Order No.</i> 62144	<i>Revision</i>	<i>Date</i> 6/30/2008	<i>Supplier No.</i> 165197	<i>Supplier Name</i> RIVERVIEW INT'L TRUCKS INC
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<u>MAINT. CL.</u>	<u>EQUIP. ID</u>	<u>FBR / SHOP</u>																			
05321	7003903	7003903 / 26																			
2	4	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).	90,232.0000	360,928.00															
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3	1	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).	107,238.0000	107,238.00															
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05321	7004052	7004052 / 27																			
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62144		6/30/2008	165197	RIVERVIEW INT'L TRUCKS INC

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension									
5	1	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL	105,677.0000	105,677.00									
TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).															
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05322	7004448	7004448 / 23													
6	1	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL	90,185.0000	90,185.00									
TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).															
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05323	7004449	7004449 / 23													
7	2	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL	101,534.0000	203,068.00									
TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).															
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05323	7003997	7003997 / 25													
05323	7003999	7003999 / 25													
8	1	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL	103,095.0000	103,095.00									
TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).															
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12	1	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL	91,746.0000	91,746.00												

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MAINT. CL.	EQUIP. ID	EPR / SHOP										
05325	7004051	7004051 / 27										
16	1	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).	90,232.0000	90,232.00						
THIS LINE ITEM SHALL INCLUDE THE FOLLOWING OPTION(S):												
Option 4: Tires (On/Off Highway - M & S)												
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<table border="1"> <thead> <tr> <th>MAINT. CL.</th> <th>EQUIP. ID</th> <th>EPR / SHOP</th> </tr> </thead> <tbody> <tr> <td>05328</td> <td>7004451</td> <td>7004451 / 23</td> </tr> </tbody> </table>							MAINT. CL.	EQUIP. ID	EPR / SHOP	05328	7004451	7004451 / 23
MAINT. CL.	EQUIP. ID	EPR / SHOP										
05328	7004451	7004451 / 23										
17	1	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).	101,581.0000	101,581.00						
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MAINT. CL.	EQUIP. ID	EPR / SHOP										
05328	7004454	7004454 / 23										
18	1	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).	90,351.0000	90,351.00						
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MAINT. CL.	EQUIP. ID	EPR / SHOP										
05328	7005033	7005033 / 23										
19	2	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).	90,593.0000	181,186.00						

STATE OF CALIFORNIA

Department of General Services - Office of Procurement

PURCHASE ORDER CONTINUATION

Form GSOP 2-PIN (04/98)

<i>Purchase Order No.</i> 62144	<i>Revision</i>	<i>Date</i> 6/30/2008	<i>Supplier No.</i> 165197	<i>Supplier Name</i> RIVERVIEW INT'L TRUCKS INC
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<i>Item No.</i>	<i>Quantity</i>	<i>Unit</i>	<i>Commodity Code</i>	<i>Description</i>	<i>Unit Price</i>	<i>Extension</i>									
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				Option 4: Tires (On/Off Highway - M & S)											
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<u>MAINT. CL.</u>	<u>EQUIP. ID</u>	<u>EBR / SHOP</u>													
05328	7005034	7005034 / 23													
05328	7005035	7005035 / 23													
20	1	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).	90,593.0000	90,593.00									
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				Option 8: Power Mirror(s) Highway - M & S											
				Option 9: Power Windows											
				Option 10: Power Door Locks											
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05328	7005037	7005037 / 23													
21	1	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).	90,232.0000	90,232.00									
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05329	7004450	7004450 / 23													
22	1	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).	106,038.0000	106,038.00									
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05329	7004452	7004452 / 23													

STATE OF CALIFORNIA

Department of General Services - Office of Procurement

PURCHASE ORDER CONTINUATION

Form GSOP 2-PIN (04/98)

Purchase Order No.	Revision	Date	Supplier No.	Supplier Name
62144		6/30/2008	165197	RIVERVIEW INT'L TRUCKS INC

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension									
23	1	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).	106,123.0000	106,123.00									
THIS LINE ITEM SHALL INCLUDE THE FOLLOWING OPTION(S):															
Option 2: Automatic Transmission W/Integral Retarder															
Option 4: Tires (On/Off Highway - M & S)															
Option 7: Clear Left Outside Frame Rail															
Option 8: Power Mirror(s)															
Option 9: Power Windows															
<table border="0"> <tr> <td><u>MAINT. CL.</u></td> <td><u>EQUIP. ID</u></td> <td><u>EFR / SHOP</u></td> </tr> <tr> <td>05329</td> <td>7005036</td> <td>7005036 / 23</td> </tr> </table>							<u>MAINT. CL.</u>	<u>EQUIP. ID</u>	<u>EFR / SHOP</u>	05329	7005036	7005036 / 23			
<u>MAINT. CL.</u>	<u>EQUIP. ID</u>	<u>EFR / SHOP</u>													
05329	7005036	7005036 / 23													
24	1	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).	89,950.0000	89,950.00									
<table border="0"> <tr> <td><u>MAINT. CL.</u></td> <td><u>EQUIP. ID</u></td> <td><u>EFR / SHOP</u></td> </tr> <tr> <td>05324</td> <td>7003947</td> <td>7003947 / 29</td> </tr> </table>							<u>MAINT. CL.</u>	<u>EQUIP. ID</u>	<u>EFR / SHOP</u>	05324	7003947	7003947 / 29			
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05324	7003947	7003947 / 29													
25	1	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).	105,677.0000	105,677.00									
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<u>MAINT. CL.</u>	<u>EQUIP. ID</u>	<u>EFR / SHOP</u>													
05333	7003970	7003970 / 28													
26	2	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL TRUCK CAB & CHASSIS, DIESEL FUELED, 3-AXLE, WITH 13 SPEED MANUAL TRANSMISSION, 64,000 POUNDS GVWR IN ACCORDANCE WITH SPECIFICATION #05321-123-071T (12 PAGES).	90,232.0000	180,464.00									
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<u>MAINT. CL.</u>	<u>EQUIP. ID</u>	<u>EFR / SHOP</u>													
05334	7003971	7003971 / 28													
05334	7003973	7003973 / 28													
27	1	EA	2320-233-0101-7	TRUCK CAB & CHASSIS DIESEL	105,677.0000	105,677.00									

STATE OF CALIFORNIA

Department of General Services - Office of Procurement

PURCHASE ORDER CONTINUATION

Form GSOP 2-PIN (04/98)

<i>Purchase Order No.</i> 62144	<i>Revision</i>	<i>Date</i> 6/30/2008	<i>Supplier No.</i> 165197	<i>Supplier Name</i> RIVERVIEW INT'L TRUCKS INC
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<u>MAINT. CL.</u>	<u>EQUIP. ID</u>	<u>FBR / SHOP</u>																		
05334	7003972	7003972 / 28																		
<u>PO Miscellaneous Charges and Discounts</u> BATCH ADJUSTMENT (CHARGE)						<u>Dollar Value</u> 336.00														
<u>Total Value:</u>						<u>4,517,342.00</u>														
<p>This purchase order is being awarded on Spetember 9, 2008 pursuant to Government Code Section 13332.17. Any encumbrances made pursuant to this purchase order shall be construed to have been made on the last day of the preceding fiscal year.</p> <p>CHANGE ORDERS:</p> <p>This Purchase Order may be amended, modified or terminated at any time by mutual agreement of the parties in writing. Change orders amending, modifying or terminating the Purchase Order, including any modifications of the compensation payable, may be issued only by the State Procurement Officer. All such change orders shall be in writing and issued only upon written concurrence of the supplier. Termination, as that term is used in this section, does not include termination for default of the supplier.</p>																				

STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
DIVISION OF EQUIPMENT

ITEM NO	UNIT	CAB	TRANS	ENG	CAP	C.A.	F.A.	R.A.
05321	C & C	CONV	13 SPD	D435	64.0	130	18.0	46.0

SPECIFICATION NUMBER: 05321-123-071

SPECIFICATION FOR: TRUCK, CAB & CHASSIS, 3-AXLE

PURCHASE ESTIMATE NUMBER: 32-12-5228

It is the intent of this specification to describe the minimum requirements for a three-axle, diesel-powered truck chassis with a conventional cab. The chassis shall be suitable for mounting a 10 cubic yard dump body, a front mounted heavy displacement plow, and a side mounted wing plow. The unit will be utilized for snow removal operations on State highways, and to haul processed materials, rock, debris, earth, etc. for maintenance work both on- and off-highway.

The unit shall be the manufacturer's standard production model(s) and shall be modified to meet these specifications. It shall be equipped with all manufacturer's standard equipment and accessories that are part of the standard published literature.

The unit shall comply with Caltrans Division of Equipment Quality Standards for Electrical, Welding, Paint, and Coatings as defined at:
<http://www.dot.ca.gov/eqsc/qualstand.htm>.

Unless otherwise stated, the requirements of the specification shall have precedence over any drawings provided, and the drawings shall have precedence over the completed questionnaire and standard factory specifications or literature.

The equivalency of any referenced item listed on the drawings or in the specification shall be determined by the Division of Equipment Specification Engineer. Only technical changes authorized by the Specification Engineer in writing will be accepted. Technical changes made by any other Division of Equipment, Caltrans, or State employees will not be accepted. All changes to this contract must be in writing.

TECHNICAL SPECIFICATIONS

1. CAPACITY: The manufacturer's Gross Vehicle Weight Rating (GVWR) shall not be less than 64,000 pounds; and the manufacturer's Gross Combined Weight Rating (GCWR) shall not be less than 100,000 pounds. The curb weight of the cab and chassis, complete with full capacities of fuel, water and lubricants, including the standard and specified equipment shall not be less than 15,000 pounds.
2. WHEELBASE: The wheelbase shall be a minimum of 207 inches and shall provide a usable CA (back of cab to centerline of rear tandem axles) of 131 inches (± 2 inches). The back of the cab to the end of the frame shall be not less than 204 inches. Splicing or lengthening the original frame will not be acceptable.
3. ENGINE: The engine shall be an electronic controlled, diesel fueled, 6-cylinder, in-line, four-cycle design, with a minimum displacement of 725 cubic inches. The engine shall be turbocharged and develop a minimum of 435 gross brake horsepower at not less than 2,000 RPM, and a minimum gross torque of 1,650 lbs. ft. per SAE J1995. The engine shall have a minimum operating RPM range (RPM at peak torque to the RPM at peak horsepower as specified herein) of not less than 800 RPM.

The engine shall be equipped as follows:

- a. California Emissions Certification. The engine shall meet all current Federal emissions requirements 'without emissions credits' at time of manufacture.
- b. The primary oil filter shall be the replaceable, spin-on, full-flow type. A single combination-type (full flow and bypass) filter shall be used.
- c. An air cleaner system of the correct capacity recommended by the filter manufacturer to match the demand of the engine and air compressor. The air cleaner connections shall be dustproof and waterproof, either tubing or hose, mounted to withstand abrasion, wear, and vibration. The top of the air cleaner assembly shall not extend above the top of the hood. The air cleaner system shall be one of the following combinations:
 - (1) Two (2) dry-type replaceable paper elements consisting of an outer primary filter and an inner safety element.
 - (2) A centrifuging action precleaner that removes coarse dust and moisture with a self-cleaning dust and water evacuator and a replaceable paper element filter.

- (3) A centrifuging action precleaner that removes coarse dust and moisture with a self-cleaning dust and water evacuator and two (2) dry-type replaceable paper elements consisting of an outer primary filter and an inner safety element.
- d. A snow valve or snow separator shall be supplied. The air cleaner shall have installed one of the following: (1) an integral snow valve to allow outside air to be blocked from the intake, with a manual control located inside the cab (preferred); or, (2) an integral automatic snow separator with drain.
- e. An air restriction gauge. The air cleaner system shall have an air restriction gauge, mounted to be easily viewable during pre-op inspections (ie – may be dash mounted (preferred), or mounted under the hood). The unit shall be redlined for servicing or replacement as recommended by the engine manufacturer, must hold and maintain the highest reading, and be resettable (Ref. Filter Minder Air Restriction Gauge Model No. 3781-325, or comparable).
- f. A diesel engine compression brake shall be supplied and installed (Ref: Jacobs or comparable). The brake used shall be approved by the engine manufacturer, and the model as recommended by the brake manufacturer. There shall be an ON/OFF toggle switch and a two (2) or three (3) position toggle switch to control the number of cylinders actuated by the brake. Both switches shall be appropriately labeled and dash mounted in the cab within easy reach of the operator.
- g. A thermostatic controlled radiator fan with an air actuated clutch for engaging and disengaging the fan. The fan clutch shall be complete with a manual override mounted inside the cab. The switch for the fan clutch override shall be appropriately labeled.
- h. An hourmeter, dash mounted to record the engine running time. The meter shall be a Hobbs Model 85006 solid state or comparable.
- i. Electric key shutoff.
- j. An adapter for a front mounted PTO (connected directly to the engine crankshaft) shall be supplied and installed. The PTO adapter shall have a bolt pattern compatible with Spicer part number 2-2-479. Adequate clearance for a 2-inch driveline under the fan, and either under or through the radiator shall be provided for the PTO.
- k. A variable speed governor to maintain a constant operator set engine RPM while the PTO is in operation under varying loads. Electronic PTO throttle controls shall be supplied. There shall be an ON/OFF switch and

a SET switch. The controls shall allow the operator to vary the setting of the engine RPM from idle to governed RPM. Controls shall be dash mounted and appropriately labeled; cruise control may provide these functions.

- I. An oil pressure gauge shall be mounted in the dash. The gauge shall be complete with a warning light and audible alarm for low oil pressure.

4. **FRAME:** The frame shall be full "C" channel construction. The RBM (Resistance Bending Moment) of the frame shall not be less than 3,100,000 in. lbs. per rail, and a Section Modulus of not less than 28 cubic inches. The frame rails shall be fabricated from steel with a minimum yield strength of 110,000 PSI. Each rail shall be full length with no splicing or added extensions.

Integral front frame rail extensions shall extend not less than 12-inches beyond the radiator grille, and a minimum of 42 inches beyond the front edge of the front axle. Both rails of the frame extension shall have a slot, centered between the frame flanges, for routing hydraulic hoses. The slot shall be 5 inches long by 3 inches high and centered eighteen (18) inches from the forward face of the PTO adapter (see Section 3.j). The slots shall be finished smooth.

If the frame rail is reinforced, then the reinforcement shall be full 'C' channel and extend from the front of the extension to the rear of the frame.

If required, frame rails may be notched or cut out, by the factory, to accept the engine. The RBM at the notch or cut out shall not be less than 1,900,000 in. lbs. per rail, with a Section Modulus of not less than 17 cubic inches.

The right frame rail behind the cab shall not have components or accessories mounted to the outside of the rail. This will allow a clear space to mount a wing plow.

5. **TRANSMISSION:** The transmission shall be of a twin countershaft design and shall have 13 speeds forward with an overdrive and 2 speeds in reverse. The transmission shall be rated at not less than the maximum torque delivered from the engine. The transmission shall be complete with oil pump and auxiliary oil cooler. (Ref. - Fuller Model No. RTLO 16913A or comparable).

The transmission shall be filled with a synthetic type gear lubricant (Ref. Emgard 50W, or comparable), with an extended change interval. The fill location(s) shall be labeled to indicate the transmission has been filled with a synthetic lubricant.

Adequate clearance shall be provided for a transmission mounted PTO.

6. **CLUTCH:** The clutch shall be a two-plate design, not less than 15-1/2 inches in diameter, faced with ceramic buttons with an area of not less than 120 square inches.
7. **COOLING SYSTEM:** The unit shall be equipped with a heavy-duty radiator and deaeration system. The radiator shall adequately cool the engine when operating at sea level and 120° F., or 7,000 feet elevation and 100° F., up 6% grades with a GCWR of 100,000 pounds. The cooling system shall be filled with a suitable anti-freeze rated for -40° F operation, be compatible with water, and have a minimum 100,000 mile change interval. The cooling system shall have a 100,000 mile (minimum) warranty.

All hoses shall be high temperature rated, reinforced silicone rubber hoses (preferred); or, Ethylene Propylene Diene Monomer (EPDM) hoses. All hose clamps shall be rated for silicone use (or as specified by the hose manufacturer for EPDM use), and where sizes available, shall be constant torque type clamps. All plumbing in the cooling system shall be fabricated from corrosion resistant material, and shall be suitable for the use intended.

The radiator shall be equipped with a low coolant level warning light visible to the operator and an audible alarm in case the cooling liquid becomes low (Ref. Robertshaw Mini-Tek, Model 813 N).

If an integral automatic transmission retarder is furnished, the cooling system shall be of sufficient capacity to allow full use of the retarder while operating at an ambient temperature of 100°F, down a 12% grade, at the full rated GCW.

8. **EXHAUST:** The exhaust muffler (after-treatment device) may be mounted in a horizontal position between or beside the frame rails (preferred), or vertically. The exhaust stack(s) shall be mounted in a vertical position on the passenger side, behind or beside the cab, and be provided with a safety heat shield around the full length of the exposed pipe. A rain cap shall be installed on each exhaust stack.

NOTE: Exhaust configuration and CA intrusion shall be approved by the Specification Engineer (prior to ordering chassis) to insure acceptable location in relation to future-installed components.

9. **FRONT AXLE:** The front axle, springs, and brakes shall have a manufacturer's minimum rated capacity of 20,000 pounds. The front Gross Axle Weight Rating (GAWR) shall be not less than 18,000 pounds (limited by tires and wheels). The front axle shall not be set back more than 36 inches from the front foremost part of the truck, not including the front bumper. The drums shall be steel, outboard mounted, with ten studs per wheel on a bolt circle diameter of 11.25 inches.

The bearings shall be lubricated by an oil bath, and the hubs shall have Stemco type oil seals with a transparent cap to view the oil level. The lubricant shall be the synthetic type (Ref. Emgard 50W, or comparable), with an extended change interval. The hubs shall be labeled to indicate they have been filled with a synthetic lubricant.

10. REAR TANDEM AXLES: The rear axles shall be single reduction tandem axles, both driving, with a manufacturer's minimum GAWR of 46,000 pounds for the axles, springs, brakes, wheels, and tires. Both rear axles shall be equipped with electronic traction control. The electronic traction control shall monitor wheel speed and work in conjunction with the vehicle Anti-Lock Brake System (ABS) to limit traction loss during acceleration. The gear ratio supplied shall provide a maximum speed of 65 to 70 MPH in the **highest** transmission gear at the engine manufacturer's governed engine RPM. The hubs shall have Stemco type oil seals. The drums shall be steel, outboard mounted, with ten studs per wheel on a bolt circle diameter of 11.25 inches.

The rear axle differentials shall be filled with a synthetic type gear lubricant (Ref. Emgard 75W-90, or comparable), with an extended change interval. The fill location(s) shall be labeled to indicate the differentials have been filled with a synthetic lubricant.

11. BRAKES: Full air brakes shall be supplied with "S" cam actuation on all axles to match the axle load rating. The brakes shall be self-adjusting such as Haldex's Self Adjusting Slack Adjustor or comparable. The brake system shall be in compliance with Federal Motor Vehicle Safety Standards (FMVSS). The following shall be supplied and installed:
- a. A minimum 12 CFM capacity air compressor. Air for the compressor shall be filtered air taken from the air cleaner or air cleaner induction system.
 - b. A Bendix Model AD-IP or comparable air drier.
 - c. A 2-axle trailer towing package complete with all controls (foot and hand controls). Controls shall be mounted and air lines terminated at the end of the frame with glad hands. The parking brake controls shall include either a tractor only parking brake control or an integrated type control that will allow the release of the trailer spring brakes without releasing the truck parking brakes.
 - d. One (1) or more air accessory outlets with pressure protection valves. Any air accessories shall be fed through a pressure protection valve.
 - e. A parking brake, spring activated. On tandem axles, there shall be spring chambers on both axles. All spring chambers shall be anti-compounding.

The brake chambers shall be sealed against contamination from moisture and dirt (Ref. Anchorlok LIFE-SEAL; MGM (Tube-type) TR-T; or comparable).

- f. An air brake emergency stopping system, spring activated and in compliance with FMVSS.
 - g. Dust Shields or backing plates, on all brakes.
 - h. ABS (Anti-lock Brake System). A minimum 4-channel system shall be supplied. System shall be factory installed.
12. **FRONT SUSPENSION:** The front suspension shall be leaf springs and shall have a rated capacity of not less than the GAWR of the front axle. The front suspension shall be complete with heavy duty shock absorbers.
13. **REAR SUSPENSION:** The rear suspension shall be leaf springs and equalizing beam type, and have a total rated capacity of not less than the GAWR of the rear axles. The equalizing beams shall be not less than 54 inches in length. (Ref. Hendrickson RT-460 or comparable).
14. **STEERING GEAR:** Steering shall be an integral valve hydraulic powered type steering with double steering boxes or single steering box and power assist ram. The steering wheel shall have a tilt and telescopic feature.
15. **WHEELS:** Ten (10) steel disc-type wheels shall be furnished. The wheels shall be drop center tubeless type, designed for use with either radial or bias type tires. All wheels supplied shall have ten (10) stud holes per wheel with a bolt circle diameter of 11.25 inches (285.75mm), and a center bore diameter of 8.66 inches (220mm). Wheel widths shall be as recommended by The Tire and Rim Association Inc. and the tire manufacturer. All wheels shall be **hub** piloted. Dual wheels shall be mounted using two-piece flange nuts. All wheels supplied on the order shall be of the same make and model (front and rear wheels may differ in model).

All wheels shall be painted white in color.

The use of spacers between the wheels or the wheel and the drum are unacceptable.

Tire chain clearance shall be provided for dual tire chains with triple side chains. Clearance shall conform to the requirements of SAE J 683.

16. **TIRES:** Ten (10) steel belted radial tubeless type tires, completely mounted and balanced on the wheels, shall be furnished. The front tires shall be size 315/80R22.5. The rear tires shall be size 11R24.5, Load Range H. All tires shall

have a highway type tread. All tires supplied on this order shall be of the same make and model (front and rear tires may differ in model).

17. CAB: The cab shall be the conventional cab design, enclosed with approved safety glass windshield and tempered glass rear and roll-down side windows. The cab shall be rubber and/or air suspension mounted, and shall have a front-tilting hood and fenders over a stationary grille.

A wire mesh screen, constructed from corrosion resistant metal, shall be installed behind the grille. NOTE: Bug screens constructed of flexible material and installed in front of the grill will not substitute for the metal screen described above.

The following items, supplementing if necessary those items already cataloged as standard cab equipment, shall be furnished and installed:

- a. An air conditioner, integral with the heater, shall be furnished.
- b. Multi-speed cab heater and windshield defroster.
- c. Ashtray and cigar lighter.
- d. Right and left outside rearview mirrors, electrically heated, and not less than 90 square inches in size. The mirrors and mounting brackets shall be factory installed (OEM) aerodynamic breakaway type; black, grey, or neutral in color.

Chrome finished brackets are not acceptable.
- e. A downward-viewing convex mirror, located above the passenger (right) door window.
- f. Dual windshield wipers. Electric powered wipers shall be supplied with an intermittent feature. Wiper blades shall be 'Snow Type'.
- g. Dual windshield washers.
- h. Cab mounted air horn(s). If cab-mounting is not available from the manufacturer, alternate location(s) will be acceptable.
- i. Dual arm rests (one on each cab door).

- j. Full instrumentation, including but not limited to the following: speedometer, tachometer, coolant temperature, primary and secondary air pressure, fuel level, and voltmeter. Warning lights shall not substitute for readable indicating instruments. All gages shall be mounted in the dash or in a factory auxiliary panel.

The tachometer supplied shall be the electric type, powered by the truck's electrical system. The tachometer shall be red-lined at the maximum engine speed as recommended by the engine manufacturer. In lieu of a red line, a label or placard indicating the maximum engine speed (ie - MAX RPM 2200) may be located near the tachometer. The Specifications Engineer shall approve the label material, lettering color, and location.

- k. Fresh air ventilators or combination fresh air and recirculating ventilation system.
- l. Steps and grab handles to safely enter and exit the cab from both sides.
- m. Glove compartment or other storage compartment.
- n. Dome light. Light shall be activated by opening the driver door, the passenger door, and by a switch in the cab.
- o. Floor mats, headliner, and full cab insulation. Bare metal or fiberboard will not be considered as insulation.
- p. Driver's air suspension-type bucket seat (Ref. National 2000 Series, Bostrom Air, or comparable), with high back to support head and shoulders, lumbar support, and a right (towards center of cab) hinged armrest. Seat cover shall be cloth or vinyl with a cloth insert.
- q. Passenger's seat, non-air, to match the driver's seat. The seat shall have a high back to support the head and shoulders.

Driver and passenger seats shall have 3 point type seat belts with boot-type retractors.
- r. Cab interior shall be a brown or grey color, or as deemed appropriate by the State.
- s. Standard AM/FM radio complete with speakers and antenna.
- t. Tilt and telescopic steering wheel.
- u. Dual visors.

- v. Fully locking cab, with three (3) complete sets of keys per unit.
- w. Halogen headlamps.
- x. Dedicated ("clean") power leads, 12 volt positive and negative, shall be provided to the cab for a two (2)-way mobile radio (Ref. Drawing No. U1-D015-01, 'Wiring for Two Radios'). The two (2)-way communication radio will be installed by Caltrans personnel.

NOTE: All gauges shall be permanently labeled to identify their functions with a simple and readable lettering style or equivalent international symbols. All gauges shall be panel mounted, shall be consistent in size, color scheme, pointer design, and label style and size. All gauges and instrumentation shall be adequately illuminated for nighttime operation. Gauges mounted below the dash are unacceptable. All gauges shall be located to be easily read by the operator.

18. SWITCH PANEL(S): A switch panel(s), integral with the dash and containing not less than six (6) switches matching in style other dash switches shall be provided to control various functions of the completed vehicles. These switches shall be able to accept a blank cover plate where an indicator light may be installed. The switches may be in a horizontal (preferred) or vertical configuration, and in one (1) or two (2) rows. Switches shall have two (2) levels of back-lighting intensity. The low level shall be activated when the ignition switch is on or the vehicle lights are on. The high level (or a separate indicator in the switch) shall be activated only when the individual switch is activated. Each switch shall have a legend to indicate the function of the switch. The legend shall be of a contrasting color from the switch and easily readable. Switch quantities, panel location(s), and configuration shall be approved by the Specifications Engineer prior to award of the Purchase Order. The State may provide exact wording for the switch legends, and locations of any blank cover plates and/or indicator lights.

If the vehicle has multi-plexed wiring: A minimum of two (2) remote power modules (RPM's) shall be provided for supplying power to auxiliary components (ie - plow lights, work lights, warning lights, etc. installed by State personnel) which are controlled by the switches described above. The vehicle's multi-plex wiring shall allow the switches to control the components connected to the RPM's. Each RPM shall be rated at not less than eighty (80) amps total, and each channel (circuit) shall be rated at not less than twenty (20) amps. The RPM's shall be sealed against the elements and provide weather- proof connection of component wiring. RPM's shall be located in the vicinity of the rear of the cab at frame level if available. Other locations may be approved by the Specifications Engineer.

If the vehicle has conventional wiring: There shall be a minimum of six (6) dash-mounted switches for future use by State personnel for additional lighting needs.

They shall match other dash switches in type, style, etc.; be circuit breaker (preferred) or fuse protected; and, in general, meet the other switch requirements stated above. These switches shall be "hot" when the ignition is in the "ON" or "ACC" position, and "dead" when the ignition is in the "OFF" position.

PLOW LIGHTS WIRING HARNESS AND SWITCH: A wiring harness, not less than three (3) feet in length, shall be supplied for use when installing auxiliary snow plow lights and park/turn signals. The harness shall be supplied with a weather-proof type connector. A dash-mounted switch shall be supplied to control the auxiliary plow lights. When activated, the switch shall turn on the plow lights/turn signals, and turn off the main headlights/turn signals.

19. FUEL CAPACITY: The total fuel capacity shall be not less than 120 gallons. The fuel system shall consist of one (1) or two (2) metal safety-type tanks, mounted on the side of the chassis, under the cab. The fuel tank(s) shall have not less than 15 inches clearance from the bottom of the tanks to the ground. Each tank shall have a filler opening. Each tank shall have fuel supply and return lines and shall draw fuel proportionally. All supply and return lines shall be complete with their own shut-off valves. The fuel system shall be designed to equalize fuel levels between the tanks. Each tank shall be equipped with a bottom drain.

NOTE: Fuel tank(s) location, configuration, and CA intrusion shall be approved by the Specification Engineer (prior to ordering chassis) to insure acceptable location in relation to future-installed components.

20. MISCELLANEOUS: The following equipment shall be furnished and installed:

Standard painted steel front bumper (straight bumper, black preferred, or grey).

Tow hook(s) or pin(s) mounted on the front for towing the vehicle NOT required.

All filters, where applicable, shall be the spin-on type.

Mud flaps – black with square corners, behind the rear wheels. Flaps shall be rubber anti-sail type on spring holders.

21. ELECTRICAL EQUIPMENT: Minimum electrical equipment shall comply with all Federal Motor Vehicle Safety Standards and State of California Department of Motor Vehicle regulations. The tail, stop, and directional signal lamps may be in combination, and the wires to these lamps shall be in a loom or conduit. A minimum 130-amp alternator with a matching regulator shall be furnished. The battery system shall be made up of Group 31 12-volt maintenance free batteries (Ref. Delco's Freedom or comparable). The system rating shall be not less than 1,825 CCA (cold cranking amps) at 0° F. and a reserve capacity of not less than 425 minutes at 25 amps and 80° F. Ratings are as established by BCI (Battery

Council International) and SAE. The electrical operational system shall be 12-volts. Side terminal batteries are not acceptable.

NOTE: If the battery box is not located under the cab, it shall be mounted on the left (driver's) side frame rail (outside) behind the cab.

Resettable circuit breakers shall be supplied in lieu of fuses where available.

A seven conductor jacketed cable and light wiring socket (Ref. Pollak No. 11-721 with a No. 11-761 boot or comparable) for a trailer jumper cable, shall be installed at the end of the frame. The wire color code and wiring of the socket shall be in accordance with the attached wiring schematic, Drawing No. U1-A010-01. The cable shall be one piece (no splices) from the cab or engine compartment to the end of the frame.

22. PAINT: The cab, hood, and fenders shall be finish painted with lead-free Winter White color. The finish coat shall be free from runs, drips, sags, etc., and shall be evenly applied to provide a gloss finish. The finish or top coat shall be compatible for re-coat or touch-up with lead-free DuPont Imron 5000, Winter White (#N6431HN H), polyurethane enamel; PPG Delta DUHS (#90604); or, Sherwin Williams Genesis (#G8-40687), equivalent color. Other components may be finished according to the factory standard finish.
23. NOISE: Noise emitted by each unit delivered in compliance with these specifications shall comply with all California and Federal laws or regulations pertaining to maximum allowable emission of noise, both inside and outside the operator's cab, at the time of delivery of the unit.
24. SAFETY: The entire unit and accessories shall comply to the applicable provisions of the California Vehicle Code, the Safety Orders of the Division of Industrial Relations, and all Federal regulations in effect at the time of manufacture.

OPTIONS

The following options or accessories shall be furnished on the cab and chassis only when specified on the Invitation For Bid and the Purchase Order. Price on options listed shall be per unit.

1. AUTOMATIC TRANSMISSION: In lieu of the manual transmission and clutch, the transmission shall be an Allison, Model 4500 RDS, 6-speed automatic transmission. The transmission shall be complete with torque converter, automatic lock-up clutch, auxiliary oil cooler, and PTO provisions.

NOTE: The engine supplied with this transmission option shall develop a minimum of 435 gross brake horsepower at not less than 2,000 RPM, and a minimum gross torque of 1,550 lbs. ft. per SAE J1995. All other requirements of section 3; ENGINE, of the Specification remain unchanged.

The electronic controls for the transmission (shift points) shall be calibrated to provide maximum performance from the engine. The operator shall be able to lock or hold the transmission in any selected gear.

If an engine brake is supplied, then the shift pattern shall be set to provide **progressive downshifting** when the engine brake is activated. Any questions concerning this function should be addressed to the Specifications Engineer.

The cooling system for the transmission shall incorporate a water/oil heat exchanger to maintain oil at a suitable working temperature as recommended by the transmission manufacturer. An oil temperature gauge kit shall be supplied and installed in the dash. The temperature gauge shall be red-lined to indicate the manufacturer's maximum recommended operating temperature; or, equipped with a visual or audible warning to indicate high temperature. The gauge shall be back-lighted in the same manner as other dash gauges. The oil temperature sensor shall be located to monitor the oil at its maximum temperature in the system.

Transmission controls and mounting shall be in accordance with the transmission manufacturer's specifications and recommendations. The transmission control shall be a lever type shifter, located to the right of the driver. Operation of the lever shall be forward and back (not side to side) and shall be easily accessible to the driver. The transmission shall have a shift pattern of 1, 2, 3, 4, 5, D, N and R (NOTE: Reverse shall be located toward the front of the shifter). The shift lever shall be back-lighted for nighttime operation.

There shall be adequate clearance to direct mount a PTO on the transmission.

The transmission shall be factory-filled (or by the delivering dealer if not available from the factory) with Allison Transynd transmission fluid. The fill location(s) shall be labeled to indicate the transmission has been filled with Transynd.

A "SCAAN" computer printout shall be supplied with each bid, or upon request, for the transmission, torque converter, and axle ratios the vendor proposes to supply. The State and Allison shall determine if the torque converter and axle ratios are acceptable.

OPTION 1 PRICE: \$ 13,865

2. AUTOMATIC TRANSMISSION W/ INTEGRAL RETARDER: In lieu of the manual transmission and clutch, the transmission shall be an Allison, Model 4500 RDS, 6-speed automatic transmission with an integral output retarder. The transmission shall be complete with torque converter, automatic lock-up clutch, auxiliary oil cooler, and PTO provisions.

NOTE: The engine supplied with this transmission option shall develop a minimum of 435 gross brake horsepower at not less than 2,000 RPM, and a minimum gross torque of 1,550 lbs. ft. per SAE J1995. All other requirements of section 3, ENGINE, of the Specification remain unchanged.

NOTE: The engine brake specified in section 3.f. of the Specification may be deleted (if possible) with this option.

The transmission retarder shall be activated by a separate fully modulated foot pedal control (preferred), or a dash-mounted switch, while the throttle is in the closed position. If a foot pedal is supplied, it shall be located in the same approximate location as a clutch pedal, and shall be positioned at the same angle as the brake pedal. There shall be a master switch in the dash for the retarder with an indicator light showing when the retarder is in operation. The system shall be as recommended by Allison Transmission. The retarder control valve shall be set for high capacity. The cooling system shall be upgraded as required to operate the retarder as specified herein. An oil temperature gauge, to monitor transmission/retarder fluid temperature, shall be installed in the dash. The gauge shall be back-lighted in the same manner as other dash gauges, and be red-lined to indicate the manufacturer's maximum recommended operating temperature; or, equipped with a visual or audible warning to indicate high temperature. The sensor for the oil temperature gauge shall be located to read the highest temperature in the system. The vehicle brake lights shall be activated when the retarder is activated.

The cooling system for the transmission shall incorporate a water/oil heat exchanger to maintain oil at a suitable working temperature as recommended by the transmission manufacturer.

The electronic controls for the transmission (shift points) shall be calibrated to provide maximum performance from the engine. The operator shall be able to lock or hold the transmission in any selected gear.

Transmission controls and mounting shall be in accordance with the transmission manufacturer's specifications and recommendations. The transmission control shall be a lever type shifter, located to the right of the driver. Operation of the lever shall be forward and back (not side to side) and shall be easily accessible to the driver. The transmission shall have a shift pattern of 1, 2, 3, 4, 5, D, N and R (NOTE: Reverse shall be located toward the front of the shifter). The shift lever shall be back-lighted for nighttime operation.

There shall be adequate clearance to direct mount a PTO on the transmission.

The transmission shall be factory-filled (or by the delivering dealer if not available from the factory) with Allison Transynd transmission fluid. The fill location(s) shall be labeled to indicate the transmission has been filled with Transynd.

A "SCAAN" computer printout shall be supplied with each bid, or upon request, for the transmission, torque converter, and axle ratios the vendor proposes to supply. The State and Allison shall determine if the torque converter and axle ratios are acceptable.

OPTION 2 PRICE: \$ 18,512

3. **DELETE AIR CONDITIONING:** The air conditioning required in the CAB section of this Specification shall be omitted.

CREDIT
OPTION 3 PRICE: \$ <445>

4. **TIRES (ON/OFF HIGHWAY - M & S):** All **driving** tires supplied on this truck shall be steel belted radial On/Off Highway rated tires with aggressive mud and snow traction lug tread design. Tire sizes and load ranges shall be as originally specified. All trucks purchased on this order with this option shall have the same make/model tires (Front tires may differ in model than rear tires).

OPTION 4 PRICE: \$ 1,464

5. **SPARE TIRES:** A spare tire and wheel, one (1) each for both the front and rear, shall be supplied. The tires and wheels shall be of the same make and model as supplied on the truck, as specified herein. The tires shall be completely mounted and balanced on the wheels.

OPTION 5 PRICE: \$ 1,570

6. BLOCK HEATER: The engine shall be equipped with a block heater. The block heater shall be powered by 110 volts AC and shall be not less than 1,200 watts. The receptacle shall be located to provide easy access for the operator.

OPTION 6 PRICE: \$ 50

7. CLEAR LEFT OUTSIDE FRAME RAIL: The left frame rail behind the cab shall not have components or accessories mounted to the outside of the rail. This will allow a clear space to mount a LEFT wing plow. Battery box and air tanks location to be determined in consultation with the Specifications Engineer prior to ordering chassis.

OPTION 7 PRICE: \$ 805

8. POWER MIRROR(S): As a minimum, the right (passenger) side exterior rear view mirror shall be power-adjustable. If a single right side power adjustable mirror is not available, both right and left (driver) side exterior power-adjustable rear view mirrors may be supplied. Mirror adjustment controls shall be easily accessible from the driver's position.

OPTION 8 PRICE: \$ 250

9. POWER WINDOWS: Both the left (driver) and right (passenger) side doors shall be equipped with power windows. The right (passenger) side power window shall be operable from the driver's position.

OPTION 9 PRICE: \$ 287

10. POWER DOOR LOCKS: Both the left (driver) and right (passenger) side doors shall be equipped with power door locks. The right (passenger) side power door lock shall be operable from the driver's position.

OPTION 10 PRICE: \$ 287

11. CNG OPTION: In lieu of the diesel-fueled engine described in section 3. ENGINE, of the TECHNICAL SPECIFICATIONS, the supplier shall provide a CNG-fueled engine of not less than 435 horsepower and a minimum torque rating of not less than 1650 lb-ft.

The minimum fuel capacity shall be not less than 150 diesel-gallon equivalent of CNG. The capacity shall be calculated at 5.2 gallons of CNG for each gallon of diesel fuel.

The fuel tank(s), plumbing, fittings, etc. shall be rated for 3,600 PSI filling. All components shall be as recommended and approved for use in high pressure CNG fuel systems, and shall comply with all requirements of the engine

manufacturer. The fueling port shall be compatible for use with 3,600 PSI and lower filling stations. There shall be a pressure gauge located near the fueling port, and a fuel capacity gauge installed in the dash.

If CNG OPTION is not available, list the price as NOT AVAILABLE (N.A.) here, and on the Invitation for Bid (IFB):

OPTION 11 PRICE: \$ N/A

If CNG OPTION is not available, provide price below for diesel-fueled engine and diesel fuel system per section 3. ENGINE and section 18. FUEL CAPACITY of the Specification. This option price would normally be 0 (zero) as diesel engine and diesel fuel system is the base (or standard) for this unit.

DIESEL ENGINE/FUEL PRICE: \$ 0

ADMINISTRATIVE REQUIREMENTS

1. VEHICLE REGISTRATION DOCUMENTS REQUIRED: The original dealer's "Report of Sale" shall be furnished by all California licensed dealers at the time of delivery of each unit or units covered by these specifications.

A California certification of compliance for vehicle pollution must be supplied at the time of delivery of each unit.

An original weight certificate from a California certified Weigh Master for registration purposes must be supplied at the time of delivery of each unit.

A Federal Excise Tax Exempt Certificate will be attached to the purchase order.

All documentation supplied for registration shall contain the following:

State of California
Department of Transportation/Equipment
34th Street and Stockton Boulevard
P. O. Box 160048
Sacramento, CA 95816

All required documentation shall be sent to the above address by the time of delivery.

NOTE: The State shall register/license all vehicles with the Department of Motor Vehicles.

2. OPERATOR'S AND LUBE INSTRUCTIONS: One set of standard operator's and lubrication instructions shall be supplied with each unit. Manuals may be paper, electronic media (ie – CD's, DVD's), or web-based (ie – available on manufacturer's website).
3. WARRANTY: The truck cab and chassis, including but not limited to the engine, drive train, suspension, electrical system, all modifications made to the unit prior to delivery, etc., and any optional accessory, shall be free from defects in workmanship and materials and be covered (parts and labor) under warranty for one (1) year or 12,000 miles, whichever occurs first, following the date the Department of Transportation (Caltrans) puts the unit into service. Caltrans will notify the supplier by mail of the in-service date and keep a record of the in-service date.

A copy of the manufacturer's standard warranty for the unit, any accessory, optional equipment, and components shall be supplied with each unit at delivery, or upon request. The manufacturer will be held responsible for warranty

(commencing from the date Caltrans puts the unit into service) for the following circumstances:

1. The manufacturer's standard warranty exceeds one (1) year or 12,000 miles, whichever comes first. Under this circumstance, the supplier is responsible until one (1) year or 12,000 miles, whichever ever comes first, is reached. The manufacturer will be held responsible for the balance of the manufacturer's standard warranty.
2. The supplier is no longer an authorized dealer of the equipment supplied. Under this circumstance, the manufacturer will be held responsible for the balance of the manufacturer's standard warranty. The manufacturer shall establish a fully operational warranty service provider with capabilities equal to or exceeding the supplier's (or his designated warranty provider) within 45 days of the supplier's authorized dealer termination.

If the supplier is not the manufacturer or manufacturer's authorized representative, then a statement agreeing to the warranty conditions stated herein shall be signed by the manufacturer and submitted upon request prior to Purchase Order award.

An In-Shop Warranty agreement (see attached), signed by the supplier or manufacturer, shall be supplied prior to Purchase Order award.

Caltrans, at its option, may perform warranty work under the terms of the In-Shop Warranty agreement. If Caltrans opts not to perform the warranty work, the supplier shall pick up the unit within 48-hours of notification, written or verbal. The unit will be at a Caltrans facility. The unit shall be repaired and returned within 10 working days to the Caltrans facility where the unit was originally picked up. Upon prior approval with Caltrans and in compliance with all Caltrans Policies and Procedures, warranty work may be performed at a Caltrans facility.

Any supplier or manufacturer non-compliant with the warranty provisions set forth herein may be subject by the Procurement Division, Department of General Services, State of California to be removed from any future bidding.

For questions regarding the warranty or In-Shop Warranty agreement contact:

California Department of Transportation
Division of Equipment
P.O. Box 160048
Sacramento, CA 95816
Attn.: Warranty Coordinator (916) 227-9646

4. WORKMANSHIP: The equipment and any accessories shall be a product of good workmanship and shall be free from any defects that will affect their appearance or serviceability.

5. IN-PROCESS REVIEW: The unit(s) may require an in-process review to verify timely progress of construction of the unit(s) and to ascertain compliance with the intent of the specifications and drawings. If there are any questions regarding the intent of the specifications or drawings, call the "Agency Contact" as indicated on the Purchase Order title page. Any in-process review will be at State expense conducted within the State of California only and will not constitute acceptance of the unit(s).
6. INSPECTION: This order will require a two (2) phase inspection process. For all inspections the unit(s) will be serviced, washed and ready for, as applicable, inspection or delivery. Inspections will begin within ten (10) working days from the date of the inspection request by the supplier. It is the supplier's responsibility to contact the Equipment Parts Coordinator at (916) 227-9636 for inspections.

FIRST PHASE (PRE-DELIVERY INSPECTION): In accordance with the State Administrative Manual, Section 4112 and the Caltrans inspection program, each unit will be inspected prior to shipment to the destination on the purchase order. This inspection trip(s) shall be State financed at no cost to the supplier.

Arrangements for pre-delivery inspections shall be made only when multiple units are complete. Each unit shall be identified with the applicable Purchase Order and Line Item. The vendor shall receive a copy of the inspection report within 4 working days of the inspection indicating that the first unit is either acceptable or not acceptable. Unacceptable or non-compliant items will be listed on the report. If late delivery charges accrue, the vendor will not be held responsible for those days from the request of the inspection to the receipt of the inspection report. If corrections are needed as a result of the inspection, the corrections shall be made prior to shipment to the purchase order destination. Authorization to deliver unit(s) must be granted by the Department of Transportation, Division of Equipment, Quality Assurance Section.

If additional interim inspections are required, such inspection trips shall be at the expense of the supplier at \$75.00 per hour (including travel time) and all expenses (meals, lodging, and cost of transportation). Travel expenses will be documented on State of California, Department of Transportation, Travel Expense Claim Form, FA302. These fees may be deducted from the invoice.

PRE-DELIVERY INSPECTION LOCATION: The inspections shall be conducted by the Department of Transportation, Division of Equipment, Quality Assurance. These inspections shall take place at an adequate site provided by the vendor within the State of California. The inspection site shall meet all of the following criteria:

- a. The site shall not be the Purchase Order delivery destination. The site shall be paved, secure and zoned for commercial use.

- b. The site shall include electricity, lights, water, compressed air and a secure paved lot. The facilities shall also include lift equipment adequate to raise the units and support them on safety stands with a minimum of 12 inches of tire clearance. The supplier shall provide conditions which meet the safety standards of CAL-OSHA and Title 8 of the California Code of Regulations.
- c. The adequacy of the site shall be determined by the Department of Transportation, Division of Equipment, Quality Assurance Section. Contact the Quality Assurance Section at (916) 227-9603 for approval.
- d. If the facility is deemed unacceptable by the Department of Transportation, Division of Equipment, Quality Assurance Section, the vendor shall be billed for the inspection trip including wages and expenses. This cost shall be deducted from the purchase order payment.

SECOND PHASE (FINAL INSPECTION): Each unit will have a final inspection at its delivery destination shown on the Purchase Order to verify acceptability. The State will have five (5) working days after delivery of a unit to conduct the final inspection of said unit. Units delivered to the final Purchase Order destination will be accepted only when all Purchase Order requirements have been met, any shipping damages have been corrected, and all required documents are received by the Department of Transportation, Division of Equipment, Equipment Receiving. These documents include, as applicable, the invoice, vehicle registration documents, parts book, operator's manuals, service manuals, lubrication instructions and charts, warranty information, certifications, questionnaires, etc. Units which are not accepted by the delivery date on the Purchase Order will be considered delivered late.

If the supplier receives notice that the unit(s) is not acceptable, whether written or oral, the unit(s) shipped to the Purchase Order destination shall be removed within seven (7) calendar days. If the supplier fails to remove said unit(s) from the State's facilities within the specified period, the State may forward said unit(s) to the supplier by common carrier at the supplier's expense and risk.

- 7. DELIVERY: Inspection, delivery, and final acceptance of all units on the Purchase Order shall be within 240 calendar days after the Purchase Order date. Contact the State of California, Department of Transportation, Division of Equipment, Equipment Parts Coordinator at (916) 227-9636 for delivery. Failure of any units to comply with the specifications by the final delivery date may place the supplier in default and may be grounds for the State to invoke Paragraph 26 of the General Provisions, Rights and Remedies of the State for Default. The Department of General Services, Procurement Division will be notified at such time.

Acceptance of delivery or placement in operation of any equipment shall not release the manufacturer from liability for faulty design, workmanship, or materials appearing even after final payment has been made.

8. LATE DELIVERY CHARGES: The parties to this agreement acknowledge that the State shall incur actual damages should the supplier fail to perform the work as called out in the contract and specification on the dates set forth herein. The parties, therefore, have agreed to late delivery charges in the amount of \$80.00 per unit per work day.

Workdays are Monday through Friday inclusive, except State holidays observed Monday through Friday inclusive.

The parties also agree that the amount specified is not unreasonable nor punitive in nature because both parties have carefully considered the amount specified and believe it to be a reasonable estimate, and not excessive at the time the purchase order is entered into.

It is, therefore agreed, that the supplier will pay the State of California the sum of \$80.00 per unit per work day (as stated above) for each work day the work remains uncompleted or unaccepted by the State, provided the total late delivery charges assessed against supplier shall in no event exceed twenty-five percent (25%) of the total value of the entire order, and the supplier agrees to pay said damages as herein provided. In the event such damages are not paid, the supplier agrees that the State may deduct the amount thereof from any monies due or that may become due said supplier.

9. PAYMENT: Process for payment will be initiated on each unit as units are received and deemed acceptable. The discount period will start after acceptance of each unit on the Purchase Order.
10. QUESTIONNAIRE: The attached questionnaire shall be filled out and will become a part of each bid submitted. Any portion of the questionnaire which is not applicable to the equipment shall be shown as N/A (not applicable).

Unless otherwise stated in the purchase order, the requirements of the written purchase order specification shall have precedence over the completed questionnaire; and the completed questionnaire shall have precedence over standard factory specifications or literature.

11. GENERAL: One (1) complete set of additional filters (air, oil, water, fuel, hydraulic, etc.) shall be supplied with the first unit delivered. This additional set of filters shall be as recommended by the manufacturer and shall be complete with the appropriate part numbers for identification.

Each unit and any accessory shall be delivered completely assembled and ready to operate.

No exceptions to the specifications will be allowed unless the exceptions are listed on the purchase order or subsequent addenda.

The component parts of the unit shall be new and of proper size and design to safely withstand the maximum stresses imposed.

The manufacturer's torque rating of each driven part shall be equal to or exceed the torque rating of its driving member.

All equipment and accessories cataloged as standard, unless superseded by these specifications, are to be furnished and included in purchase price of this unit.

Bids will be considered only on equipment represented by a supplier capable of providing adequate repair parts, warranty, technical assistance, and training in the United States as of the bid opening date. The supplier shall be capable of supplying repair parts to Caltrans within five (5) working days after a purchase order for parts is submitted to the supplier, whether by phone, fax, or mail. Bidders may be required to provide documentation supporting this requirement prior to award of the contract.

Suppliers shall be the equipment manufacturer, an authorized factory dealer or representative thereof, or shall have authorization from the equipment manufacturer or authorized factory dealer to solicit the equipment bid. The bidder shall be capable of providing parts, service, warranty, and training for the equipment bid as specified herein. If the bidder cannot provide these items for the equipment bid, the equipment manufacturer or an authorized factory dealer may provide these items for the bidder. Upon request, the signed agreement between the bidder and the equipment manufacturer or authorized factory dealer, stating who will be responsible for providing parts, service, warranty, and training for the equipment bid, shall be provided to the State.

Bids will not be considered if supplier's designated f.o.b. delivery destination is other than the delivery address stated in the invitation to bid.

Only new models in current production, which are cataloged by the manufacturer and for which manufacturer's published literature and printed specifications are currently available, will be considered. Special options may be included only when recommended by the manufacturer of the unit and approved by the State.

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

"Caravan" or "drive-away" deliveries from points outside the State of California will not be accepted.

The State reserves the right to amend the contract within the scope of the original bid to cover: unanticipated work or the addition of options priced in the awarded Purchase Order. The bid may be amended for additional labor at the published flat rate where applicable.

The State reserves the right to purchase a minimum of one (1) unit, or up to an additional 25% of the quantity on the Purchase order, at bid prices, for State Agencies and California Local Government Agencies. Orders for such additional units shall be placed within 180 days of bid award.

CHANGE ORDERS: This contract may be amended, modified or terminated at any time by mutual agreement of the parties. Change orders amending, modifying, or terminating the contract including any modification of the compensation payable, may be issued only by the State Procurement Officer and shall be in writing. Termination, as that term is used in this section, does not include termination for default of the supplier.

CALTRANS IN-SHOP WARRANTY AGREEMENT

Name of Supplier/Manufacturer Riverview International Trucks, LLC / International
Warranty Representative (print or type) Mark Schmidt
Street Address 2445 Evergreen Ave.
City, State, Zip Code W. Sacramento, CA 95691
Telephone Number (916) 669-0253
Solicitation No. 57023 Due Date 8/25/08
Item (Quantity/Brand/Model) Qty. 48 / International / 7600

When equipment is purchased for Caltrans, a section of the specifications requires the supplier/manufacturer to enter into an In-Shop Warranty Agreement.

The terms of the In-Shop Warranty Agreement for this equipment are as follows:

1. Labor rate charged by Caltrans will be \$100.00 per hour.
2. Warranty claims will be processed on a Caltrans Work Order unless the supplier/manufacturer furnishes standard warranty forms.
3. Suppliers'/manufacturers' standard flat rate time schedules shall be used as a guide for In-Shop Warranty repair time. If a supplier's/manufacturer's flat rate time schedule is not available, Caltrans will use the time that is recorded on the Caltrans Work Order.
4. Replacement parts will be available within 5 working days from the date of receipt by supplier/manufacturer of a Purchase Order, whether the order is made by telephone or in writing.
5. Replaced parts will be held 60 days for inspection by the supplier/manufacturer.
6. Original Equipment Manufacturers' parts will be used as replacement parts; or, if OEM parts are not available, after-market parts of equal or better quality will be utilized.
7. Copies of invoices for all parts will be provided to the supplier/manufacturer.

Caltrans will contact the supplier/manufacturer for authorization to perform In-Shop Warranty repairs as stated in this agreement. Only under extreme emergency conditions will In-Shop Warranty be performed without prior authorization. If Caltrans opts not to perform the warranty work, the supplier shall pick up the unit within 48 hours of notification, written or verbal.

In-Shop Warranty Agreement shall remain in effect until all conditions of warranty in the State of California specifications and in the original manufacturer's warranty expire.

Signature, Caltrans Warranty Coordinator _____
Signature, Supplier/Manufacturer Jason Farrell Date 8/25/08
Date _____

QUESTIONNAIRE FOR DIESEL TRUCK CAB AND CHASSIS

NOTE: This questionnaire shall become part of this bid and take precedence over any accompanying literature. The bidder must complete the following in full.

Year & Make 2009 - International
Model 7600

1. **Capacity:**
Manufacturer GWR 64,000 lbs.
Manufacturer GCWR 100,000 lbs.
Total Curb Weight 20,108 lbs

2. **Wheelbase:**
Wheelbase 213 In.
Cab to Axle 133 In.
Back of Cab to Rear of Frame 208 In.

3. **Engine:**
Make Caterpillar
Model C13
Displacement 763 Cu in.
Gross HP 470 @ 2100 RPM
Gross Torque 1,650 lb.ft. @ 1200 RPM
Gross Torque w/ Auto. Trans. Option 1,650

4. **Frame:**
Minimum RBM 3,580,800 Lbs. In./Rail
Minimum RBM at Engine Notch 2,506,560 Lbs. In./Rail
Section Modulus 29.84 In³
Yield Strength 120,000 PSI

5. **Transmission:**
Manufacturer Fuller
Model RTLO (F) - 16913A
Filled with synthetic gear lubricant? (y/n) YES

Transmission - Option 1 and/or Option 2:

Manufacturer Allison
Model 4500 RDS (option #1) w/ Integral retarder (option #2)
Filled with Transynd transmission fluid? (y/n) YES

6. Cooling System:

Coolant w/ 100,000 mile (min.) warranty? (y/n) Yes
Coolant product name Red Shell Rotella Extended Life Coolant
Coolant change interval 600,000 miles (12,000 hours) months/miles
w/ Rotella Extender @ 300,000 miles (6,000 hours)

7. Exhaust:

Number of Mufflers 1
Vertical or Horizontal HORIZONTAL
Number of Stacks 1
Vertical or Horizontal VERTICAL

8. Front Axle:

Make/Model DANA SPICER I-200W
Manufacturer Rating 20,000 Lbs.
Set-Back? (Yes/No) YES Distance 32 In.
GAWR 18,000 Lbs.
Hubs filled with synthetic gear lubricant? (y/n) Yes

9. Rear Axle:

Make/Model Meritor RT-46-160
Mfg Rating 46,000 Lbs.
Ratio 4.56 Single or Two Speed Single
Electronic Traction Control? (Yes/No) Yes
Both Axles? (Yes/No) Yes
GAWR 46,000 Lbs.
Differentials filled with synthetic gear lubricant? (y/n) Yes

10. Rear Suspension:

Spring Type:
Make/Model Hendrickson RT-463
Capacity at ground 46,000 lbs.

11. **Air Brakes:**
Type (S-cam?) S-CAM w/ Auto Slack adjusters, dust shields, AD-IP AIR DRYER,
ABS, Spring activated parking brake, 16.1CFM capacity Compress

12. **Wheels:**

	<u>Front</u>	<u>Rear</u>
Rim Size	<u>22.5</u>	<u>24.5</u>

13. **Tires:**

	<u>Front</u>	<u>Rear</u>
Size/Load Range	<u>315/80R22.5 -L</u>	<u>11R24.5 -H</u>
Manufacturer/Model	<u>GOODYEAR G287 MSA</u>	<u>GOODYEAR G149 RSA/RH</u>
Revs per mile	<u>485 rev/mile</u>	<u>476 rev/mile</u>

14. **Address of pre-delivery inspection:**
Riverview International Trucks, LLC
2445 Evergreen Ave.
West Sacramento, CA 95691

15. **Warranty provider:**
INTERNATIONAL TRUCK AND ENGINE CORPORATION

NOTE: THIS QUESTIONNAIRE SHALL BECOME PART OF THIS BID AND TAKE PRECEDENT OVER ACCOMPANYING LITERATURE. THE BIDDER MUST COMPLETE THE FOLLOWING IN FULL.

Riverview International Trucks, LLC
Company

Jason Farrell
Signature

2445 Evergreen Ave.
Street Address

JASON FARRELL - Fleet Account Manager
Name and Title

W. Sacramento, CA 95691
City, State, Zip Code

(916) 669-0253
Telephone Number

LIST ANY ADDITIONAL INFORMATION OR EXCEPTIONS TO THE SPECIFICATIONS BELOW:

Specification No. 05321-123-071
P.E. No.: 32-12-5228

CONTACT INFORMATION

DURING BIDDING AND PRIOR TO PURCHASE ORDER AWARD		
Purpose	Name	Telephone No.
Any technical or administrative questions concerning this bid.	BUYER: As listed on the Invitation For Bid	As listed on the Invitation For Bid Fax 916-227-9655
AFTER PURCHASE ORDER AWARD		
Administrative questions, first inspection request, payment ...	MILACA BERNARDI Shipping and Receiving Division of Equipment	916-227-9636
All technical issues, equivalent parts, print discrepancies, Spec interpretation...	R. A. PEDERSEN, P.E. Specification Engineer	916-227-9639
Follow up inspections, scheduling after inspection request, copy of inspection report ...	ROSS SNYDER Quality Assurance Division of Equipment	916-227-9709
Establish training plan.	TONY MARSHALL	916-227-9665
Warranty questions.	HAROLD THOMPSON	916-227-9724