



STATE OF CALIFORNIA  
Department of General Services - Office of Procurement  
**PURCHASE ORDER**

Page 1

Purchase Order No. Rev. Date  
**62361** 6/26/2009

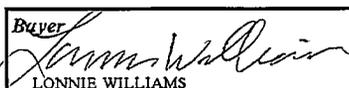
Form GSOP 1-PIN (04/98)

Supplier No.	Solicitation No.	Delivery Date	FOB Point	Invoice Terms
804869	57323	180 Days ARO	Destination	

COASTLINE EQUIPMENT CRANE DIVISION 325 NORTH FIFTH ST #A SACRAMENTO, CA 95814 Attn: MIKE CALDERON   Phone: 916-440-8090	<b>S</b> DWR CORPORATION YARD <b>h T</b> 4300 WEST CAPITOL AVE <b>i o</b> W SACRAMENTO CA 95605 <b>P</b>	<b>C</b> DEPT OF WATER RESOURCES <b>h T</b> PO BOX 942836 <b>r o</b> SACRAMENTO CA 94236-0001 <b>g e</b>	
	<b>Agency Billing</b> 81000	<b>Agency Purchase Estimate</b> 6000027363	<b>Purchase Estimate</b> 67455 <b>Revision</b> 0
	<b>Agency Contact</b> BILL MAHON	<b>Phone</b> 916-653-6167	<b>Date Received</b>

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension
<p>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: <a href="http://www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf">www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf</a></p> <p>THE FOLLOWING INFORMATION IS PROVIDED FOR AGENCY USE ONLY: PRIME CONTRACTOR: NS FISCAL YEAR: 2008/2009</p>						
1	1	EA	1096-000-0370-5	TRUCK FLATBED Truck, with Mounted Boom, as described, meeting the requirements of the attached Specifications 2320-065SAS of six (6) pages, dated April 4, 2009.	211,636.0000	211,636.00
					Brand: <u>MATRIX</u>	
					Model: <u>2277C</u>	
<b>Total Value:</b>						<b>211,636.00</b>
<p><b>F.O.B. DESTINATION</b></p> <p>For the purpose of this order only F.O.B. Destination will be accepted.</p> <p><b>ATTACHMENTS</b></p> <p>THE FOLLOWING ATTACHED DOCUMENTS ARE PART OF THIS PURCHASE ORDER.</p> <ol style="list-style-type: none"> <li>Department of Water Resources, Administrative Requirements # PE 67455 of seven (7) pages.</li> <li>SPECIFICATION # 2320-056AS of six (6) pages, dated April 1, 2009.</li> <li>QUESTIONNAIRE PE 67455 of five (5) pages dated April 21, 2009.</li> </ol>						

Sales and/or use tax to be extra unless noted above

<b>Buyer</b>  LONNIE WILLIAMS	<b>Phone</b> 916-375-4586	<b>BOC Number</b>
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STATE OF CALIFORNIA

Department of General Services - Office of Procurement

PURCHASE ORDER CONTINUATION

Form GSOP 2-PIN (04/98)

<i>Purchase Order No.</i>	<i>Revision</i>	<i>Date</i>	<i>Supplier No.</i>	<i>Supplier Name</i>
62361		6/26/2009	804869	COASTLINE EQUIPMENT

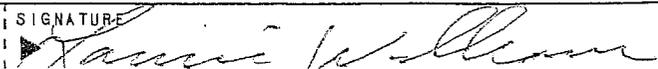
<i>Item No.</i>	<i>Quantity</i>	<i>Unit</i>	<i>Commodity Code</i>	<i>Description</i>	<i>Unit Price</i>	<i>Extension</i>
<p><u>PRECONSTRUCTION CONFERENCE</u></p> <p>After award a preconstruction conference shall be held between the State and contractor within ten (10) calendar days after formal award of the purchase order. This conference shall be held prior to the start of any construction. The purpose of this meeting is to review specifications, resolve any questions concerning the specifications and/or variations of the chassis.</p> <p>Contact: Department of Water Resources 4300 West Capitol Ave. West Sacramento, CA 95605 Contact: Bill Mahon Phone (916) 653-6167</p> <p><u>DELIVERY</u></p> <p>Delivery is to be completed in full within 180 days ARO.</p> <p>Delivery to be made during normal business hours Monday through Friday, 8:00am-12:00pm or 1:00pm to 4:00pm, except State Holidays.</p> <p>The Truck/Crane is to be delivered to the following address: All required documentation shall be sent to the address below by the time of delivery.</p> <p>Department of Water Resources Corporation Yard 4300 West Capitol Ave. West Sacramento, CA 95605 Contact: Bill Mahon Phone: (916)653-6167</p> <p>DOCUMENTATION: The following documents shall be delivered to the consignee (receiving agency) with the vehicle:</p> <ul style="list-style-type: none"><li>1.) Completed and signed pre-delivery inspection checklist, including the purchase order number and vehicle ID.</li><li>2.) "Line Set Tickets" or "Window Sticker" showing all options installed.</li></ul> <p><u>FEDERAL EXCISE CERTIFICATE</u></p> <p>Federal Excises Tax Certificate attached.</p> <p><u>SCPRS</u></p> <p>This Purchase order has been registered into the state contact and procurement registration system (<a href="https://www.scprs.dgs.ca.gov/">https://www.scprs.dgs.ca.gov/</a>). The registration number is epl017666.</p> <p><u>CHANGE ORDERS</u></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>						

FEDERAL EXCISE TAX  
EXEMPTION CERTIFICATE

NAME OF VENDOR Coastline Equipment / Crane Division		
NAME OF AGENCY Department of Water Resources		
THIS ORDER - KIND <input type="checkbox"/> SUB-PURCHASE ORDER <input checked="" type="checkbox"/> PURCHASE ORDER	NUMBER 62361	DATE 06/08/2009

THE UNDERSIGNED HEREBY CERTIFIES THAT HE IS AN OFFICER OR EMPLOYEE OF THE STATE OF CALIFORNIA AND THAT HE IS AUTHORIZED TO EXECUTE THIS CERTIFICATE AND THAT THE ARTICLE OR ARTICLES SPECIFIED IN THE ACCOMPANYING ORDER OR ON THE REVERSE SIDE HEREOF ARE PURCHASED FOR THE EXCLUSIVE USE OF THE GOVERNMENTAL UNIT NAMED ABOVE.

IT IS UNDERSTOOD THAT THE EXEMPTION FROM TAX IN THE CASE OF SALES OF ARTICLES UNDER THIS EXEMPTION CERTIFICATE TO THE STATE OR ANY POLITICAL SUBDIVISION THEREOF IS LIMITED TO THE SALE OF ARTICLES PURCHASED FOR THEIR EXCLUSIVE USE, AND IT IS AGREED THAT IF ARTICLES PURCHASED TAX-FREE UNDER THIS EXEMPTION CERTIFICATE ARE USED OTHERWISE OR ARE SOLD TO EMPLOYEES OR OTHERS, SUCH FACT MUST BE REPORTED TO THE MANUFACTURER OF THE ARTICLE OR ARTICLES COVERED BY THIS CERTIFICATE. IT IS ALSO UNDERSTOOD THAT THE FRAUDULENT USE OF THIS CERTIFICATE TO SECURE EXEMPTION WILL SUBJECT THE UNDERSIGNED AND ALL GUILTY PARTIES TO A FINE OF NOT MORE THAN \$10,000, OR TO IMPRISONMENT FOR NOT MORE THAN FIVE YEARS, OR BOTH, TOGETHER WITH COSTS OF PROSECUTION.

OFFICER OR EMPLOYEE - TITLE OR POSITION Lonnie Williams      AMA	SIGNATURE 
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STD. 802 (REV. 4-59)

STATE OF CALIFORNIA



STATE OF CALIFORNIA  
ADMINISTRATIVE REQUIREMENTS  
TRUCK, 56,000 GVWR, 70FT TELESCOPIC CRANE

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**1. GENERAL PROVISIONS**

Each unit and any accessory shall be delivered completely assembled and ready for operation. All equipment options and accessories are to be factory installed. If factory installed options are not available, dealer-installed options may be acceptable if approved by the State in advance. All dealer-installed options shall be listed on each bid.

To be considered for the bid, the supplier shall be the original equipment manufacturer, an authorized factory dealer or representative thereof. The qualified supplier shall also be capable of providing parts, service, warranty, and training in California for the equipment specified herein. The supplier shall be capable of providing replacement part(s) within three (3) working days after a purchase order is submitted to the supplier.

Each bid shall include specification(s), drawing(s), diagram(s), schematic(s), published literature(s), photo(s), and illustration(s) pertaining to the equipment bid. Only new models in current production that are cataloged by the manufacturer, and for which printed specifications are available shall be considered. All equipment and accessories cataloged as standard, unless superseded by these specifications, shall be furnished and included in the purchase price of each unit. Special option(s) may be included only if recommended by the equipment manufacturer and approved in advance by the State.

The State reserves the right to purchase a minimum of two (2) additional units at bid prices for State Agencies and California Local Government Agencies. Orders for such additional units shall be placed within 150 days of bid award date.

**2. DESIGN AND WORKMANSHIP**

Component parts of each unit shall be new (unused), current model year production, and of proper size and design to safely withstand the maximum stresses imposed. The equipment shall be provided with components, accessories, materials, design practices, and workmanship that are the best available in the industry for the equipment type, and the operational conditions to which the equipment will be subjected. Component parts shall be designed and manufactured to give maximum performance, service life, and safety. The manufacturer's recommended torque rating of each driven part shall be equal to or exceed the torque rating of its driving member. The equipment shall be a product of good workmanship and shall be free from any defects that will affect their appearance, use, or serviceability.

**Material:**

Construction shall be of all new (unused) material free of rust and any defects. All structural components in the assembly shall be fabricated from a single piece of material. Spliced components are not acceptable. Brackets, gusset plates, etc. to be welded shall be of the same material as the adjoining material. The finished product shall be free of dents and warpage. The use of body filler is unacceptable.

**Fasteners:**

Nuts, bolts, and washers shall comply with the most current engineering and manufacturing practices and standards. Frame (flange) bolts and nuts shall be used to attach components to vehicle frame. Frame bolts and nuts shall be of compatible material to prevent electrolysis with frame member. Bolt lengths shall be such that a minimum of two threads shall extend beyond the nut when tightened. Nuts shall be the locking type.

Structural members shall use SAE Grade 8, or better, bolts with matching nuts.

Non-structural members shall use SAE Grade 5, or better, bolts with matching nuts.

**Metal Shaping:**

All breaks shall be free of cracks. Radii shall be at least twice the thickness of the material or in accordance with the requirements established by ASTM for the particular material being formed, whichever is greater. All holes shall be round, of the proper dimension, perpendicular to the material they are produced in, and finished smooth. Oblong holes or holes drilled, bored, etc. at angles are not acceptable. Holes and slots shall be drilled, punched, saw cut, plasma cut, or milled; torch cut is unacceptable. Sharp corners on all material shall be rounded smooth to prevent injury.

**Welding:**

Welding shall comply with the most current standards as set forth by American Welding Society (AWS) and American National Standard Institute (ANSI):

Intermittent or spot welds shall be spaced and proportioned to provide ample strength for the material being welded. Weld sizes not indicated shall be equal to the thickness of the least of the joined plates

All welds shall be properly fused, displaying proper penetration and a professional finish, and must meet the qualification requirements of applicable

AWS specifications. Examples of unacceptable welds are:

- |    |          |    |                    |
|----|----------|----|--------------------|
| a. | Cracks   | d. | Excessive Splatter |
| b. | Undercut | e. | Blow Holes         |
| c. | Overlap  | f. | Slag Entrapment    |

Any weld failing to comply with the AWS specification, or failing to pass a quality assurance inspection performed by the State, shall be corrected by the manufacturer at the manufacturer's expense, and be corrected off State property.

Only a welder who is AWS certified to perform the type, size, and position of the weld in accordance shall correct deficient welds.

Grinding of welds must have prior approval of the Department of Water Resources' Mobile Equipment Office engineering staff. Welds that have been ground without approval shall be subject to complete re-welding upon request, at no additional cost to the State. The covering of welds with body fillers or similar materials is unacceptable. Warpage of assembled parts is unacceptable.

**Electrical System:**

Minimum electrical equipment shall comply with all Federal Motor Vehicle Safety Standards and State of California Department of Motor Vehicle regulations. All lights, signals, and markers shall be recessed, mounted in rubber grommets, unless otherwise specified. Mounting holes for lights shall be the proper dimension as recommended by the manufacturer. Mounting holes shall be punched, plasma cut, or saw cut and finished smooth; torch cut holes are unacceptable.

All wiring installed shall be the stranded copper type and shall have cross-linked polyethylene insulation. All wiring shall be protected in plastic loom or conduit, unless otherwise specified. Adequate size gauge of wire to the lights shall be used in accordance with SAE standards for distance from power source and load demand. The ends of all stranded conductors cut shall be mechanically stripped and fitted with insulated type terminals. The terminals shall be mechanically crimped securely with appropriate tool(s). All splices and connections shall be sealed against moisture. Scotch Lock wire-piercing devices shall not be used. Ground return connections shall be attached to the vehicle frame, body and/or engine. In cases where the engine or body is mounted on rubber or other insulation, proper ground shall be provided with grounding straps.

The edge of all metal members, which a wire harness or loom pass through, shall be deburred and bushed with suitable grommets. In general, wire routing shall be such that maximum protection is provided by the vehicle sheet metal and structural components. All wiring shall be mechanically secured to prevent sagging and movement. Adhesive type mounting will not be accepted. Electrical devices, lamps, etc., requiring periodic service and/or removal shall be provided with adequate wire length for ease of access.

**Hydraulic System:**

Hydraulic lines shall be sized as recommended by the manufacturer of the component to which they attach, and shall be adequate for the use intended. All hoses and plumbing shall have a minimum number of bends, and shall be free of any kinks. All bends in hoses and tubing shall be not less than the minimum radius as recommended by the hose or tubing manufacturer. Where applicable, plumbing components shall be protected by frame members. Any hoses routed around or through areas, which may cause abrasion and cuts, shall be protected as necessary. Through holes for routing hose and tubing shall include grommet. All hydraulic components and plumbing shall be mechanically mounted and supported to withstand extensive field use. Adhesive type mounting will not be accepted. Fittings shall be of the proper size to match the hydraulic line to which they attach. Compression type fittings shall not be used in the system. All

threads shall be North American type threads. British, metric, etc. threads are unacceptable.

The use of black pipe, galvanized pipe, pipe fittings, etc. shall not be used in the hydraulic system. All reservoir inlets and outlets shall incorporate flange type fittings. Pipe nipples welded to the reservoir is unacceptable.

### **3. RULES, REGULATIONS, STANDARDS**

The following rules, regulations, and standards shall apply to each unit supplied:

- A. Federal Motor Vehicle Safety Standards (FMVSS).
- B. California Vehicle Code.(CVC)
- C. California Code of Regulations (CCR), Title 13, "Motor Vehicles" and Title 8, "General Industry and Construction Safety Orders".
- D. Occupational Safety and Health Agency (OSHA)
- E. Society of Automotive Engineers (SAE)
- F. American Society of Mechanical Engineers (ASME)
- G. American Society for Testing and Materials (ASTM)
- H. American National Standards Institute (ANSI).
- I. American Welding Society (AWS).
- J. National Electric Code (NEC).

### **4. DELIVERY**

Supplier shall be responsible for, and bear all costs associated with, the delivery and unloading of each unit. Each unit shall be delivered to:

Department of Water Resources  
Corporation Yard  
4300 West Capitol Ave.  
West Sacramento, CA 95691

Caravan delivery of vehicles from points outside the State of California will not be accepted. Driveaway-towaway operations for truck cab and chassis is not acceptable. The supplier shall not drive each vehicle for more than 250 miles total. The supplier will be charged a rate of \$0.50 per mile for each mile exceeding the 250-mile limit. This charge shall be deducted from the purchase order price for each vehicle exceeding the 250-mile limit.

The supplier shall be responsible for unloading each unit delivered to the above address.

### **5. INSPECTION**

In-Process Inspection: Prior to final assembly, the first unit on the order shall be inspected during fabrication to determine timely manufacture, verify build quality, and to identify and resolve any discrepancies with the contract specification. This in-process inspection will take place at the manufacturer's facility and will be conducted by State personnel. The supplier shall call the California Department of Water Resources, Division of Operations and Maintenance, Fleet

Management Office, at (916) 653-7681 when the first unit on the order is considered to be at least 50% complete and/or prior to the permanent installation of major components.

A written inspection report will be submitted to the supplier indicating that the unit is either acceptable or unacceptable. If a unit is determined unacceptable, the inspection report will list those deficiencies that must be corrected to make the unit acceptable. All deficiencies must be corrected prior to final assembly.

If the manufacturer's facility is within the State of California, this inspection trip shall be State-financed at no cost to the supplier. If the manufacturer's facility is outside the State of California, the supplier shall burden all travel and per diem costs to send one State employee to the manufacturer's facility for the in-process inspection.

**Pre-Delivery Inspection:** Prior to final shipment to the delivery destination as indicated on the purchase order, each unit shall be inspected by State personnel to determine compliance with the contract specification. The supplier shall call the California Department of Water Resources, Division of Management Services, Transportation Office, at (916) 653-9051, when a unit is complete and ready for inspection. The inspection shall be held at the supplier's place of business in California. If the supplier's place of business is outside the State of California, the supplier shall burden all travel and per diem costs to send One State employee to the supplier's place of business for this inspection.

Each unit shall be serviced, washed and ready for inspection. Where applicable, the supplier shall complete and sign the supplier pre-delivery inspection (PDI) form and the supplier shall note the appropriate Purchase Order number and line item on each form.

A written inspection report will be submitted to the supplier indicating that the unit(s) is either acceptable or unacceptable. If a unit is determined unacceptable, the inspection report will list those deficiencies that must be corrected to make the unit acceptable. All deficiencies must be corrected prior to final shipment. If necessary, State personnel will re-inspect each unit to determine compliance. If the supplier's place of business is outside the State of California, the supplier shall burden all travel and per diem costs to send one State employee to the supplier's place of business for any additional re-inspection.

Once a unit is determined to be acceptable, the supplier can commence shipment of said unit. The inspection report must state "OK to ship" or "OK to deliver" before the supplier can ship each unit.

**Final Inspection:** After delivery of each unit, the State will conduct a final inspection to check for shipping damage, determine that all deficiencies have been corrected, and verify receipt of all required documents and manuals. The State will have five working days, starting from the date that the State receives the unit and all required documentation, to conduct a final inspection.

If the unit is deemed unacceptable, the supplier must remedy, at the supplier's expense, all deficiencies within seven days after receipt of written notification.

The supplier shall remove said item from the State's facility if major corrections are required. If the supplier fails to remedy all deficiencies or remove said item from the State's facility within the specified period, the State may forward the said item to the supplier by common carrier at the supplier's expense and risk. The supplier must correct any deficiencies noted at the final inspection before the unit will be considered for final acceptance and payment. Delivered units will not be considered for final acceptance and payment until all required documents (i.e., invoice, vehicle registration documents, weight certificate, parts books, operator's manuals, service manuals, lubrication instructions and charts, warranty information, certifications, questionnaires, etc.) are received by the Department of Water Resources.

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

#### **6. PARTS BOOKS AND MANUALS**

One (1) set of equipment operation and safety manuals, service and maintenance manuals, troubleshooting and repair guides, and parts books shall be provided for each complete system/unit, if available. As a minimum, operation and safety manuals, service and maintenance manuals, troubleshooting and repair guides, and parts books shall be provided for all major component(s). CD ROMS are preferred in lieu of hardcopy manuals.

#### **7. VEHICLE REGISTRATION DOCUMENTS REQUIRED (Final Stage Manufacturer)**

Each unit will be registered with the State of California, Department of Motor Vehicles, and licensed for on-highway use by the Department's Transportation Office. All documentation supplied for registration shall contain the following Physical and Post Office Box addresses:

State Department of Water Resources  
1416 9<sup>th</sup> Street  
Sacramento, CA 95814

State Department of Water Resources  
P. O. Box 942836  
Sacramento, CA 94236-0001

A final stage manufacturer's label shall be affixed to the completed vehicle in accordance with FMVSS and the supplier shall furnish a weight slip, from a certified weighmaster, showing the vehicle tare weight for each unit at the time of delivery.

#### **8. TRAINING**

The supplier, at his expense, shall provide a qualified factory-authorized service representative to provide operational and technical training for equipment operators and shop mechanics. Training shall consist of a combination of

classroom discussion and/or audio-visual aids and hands-on operation for the operators. Training shall also include safety instructions, operation, maintenance, and lubrication requirements, any special adjustments and minor repair procedures. Shop mechanics shall also receive procedures for ordering parts, repair manual and parts book orientation.

The training shall be for one 8-hour day, or longer if the supplier deems necessary. The date of the training shall be coordinated between the supplier and the Department of Water Resources' Transportation Office at (916) 653-9051; however, the training will be completed within 30 days after final delivery. The full cost of this service shall be included in the bid. Equipment training will be held at each field division receiving a unit.

**9. WARRANTY**

The manufacturer shall guarantee that each unit to be a product of good workmanship, and shall be free from defects in workmanship and materials for a minimum period of one (1) year, 1000 hrs, or 12,000 miles, whichever occurs first. The warranty shall start on the first day The Department of Water Resources puts the unit into service. The Department will notify the supplier, by mail, of the in-service date.

This warranty shall cover the entire unit (i.e., bumper to bumper), including special modifications and any optional equipment or accessories being supplied, and shall be for 100 percent parts and labor of all repair costs. A copy of the manufacturer's warranty for each complete unit shall be supplied with each unit.

The supplier shall be responsible for all costs associated with pickup and delivery of units requiring warranty repair. The supplier may elect to repair the unit via traveling mechanic. All costs associated with truck rental, travel time, per diem, etc., shall be burden by the supplier.

**10. PAYMENT**

Process for payment will be initiated after each unit on the purchase order is received and deemed acceptable. All discount periods start after final acceptance of each unit on the purchase order.



## 1 SCOPE

This specification establishes the minimum requirements for a 3-axle, diesel powered truck with a conventional cab equipped with a behind the cab mounted crane, sub-frame, and flatbed. The truck will be utilized for various maintenance in support of the State Water Project including lifting of pumps, radial gates, valves, and other components through out California with typical California ambient temperatures and will be subject to on and off road conditions. The supplier is responsible for providing a truck that meets the following minimum requirements.

## 2 APPLICABLE SPECIFICATIONS / STANDARDS / CODES

Specifications, standards and codes referenced in this document in effect on the opening of the 'Invitation For Bid', form a part of this specification. The vehicle furnished under these specifications shall conform to all of the requirements of all Divisions and Chapters of the following publications:

1. Federal Motor Vehicle Safety Standards, Federal Highway Safety and DOT.
2. California Motor Vehicle Code.
3. California Code of Regulations (i.e. Title 8, Title 13, Title 15, Title 21).
4. Current California Air Resources Board (CARB) emission requirements.
5. Society of Automotive Engineers (SAE), International Standards Organization (ISO), and American National Standards Institute (ANSI).
6. Occupational Safety and Health Administration (OSHA) and California State Division of Occupational Safety and Health (Cal OSHA)
7. A plate identifying the manufacturer, tare weight, gross vehicle weight rating (GVWR), date of manufacture and all other information as specified in the National Traffic and Motor Vehicle Safety Act, Section 114, and Federal Code of Regulations, Title 49, shall be attached to the truck frame or body in an easily accessible location.
8. 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.

## 3 TRUCK REQUIREMENTS

### 3.1 General

The vehicle shall be new and equivalent in style, quality, and appointments to those offered to the general public. The vehicle shall be supplied with all equipment and accessories indicated as standard equipment in the manufacturer's published literature. Optional equipment necessary to meet the requirements of this specification shall also be installed.

- GVWR: 56,000 pounds (minimum).
- GCWR: 100,000 pounds (minimum).
- Cab to Axle Centerline: 168 ± 12 inches.
- Cab to End of Frame: 260 inches (minimum).

### 3.2 Engine

The vehicle shall be equipped with the manufacturer's standard diesel engine that meets the following minimum requirements:

- Power: 380 hp gross (minimum).
- Torque: 1400 lbs.-ft. (minimum).
- Options/Accessories:
- Engine brake (Jacobs or equivalent).
- Air cleaner, dual element with restriction indicator mounted inside cab.
- Fuel water separator.

**3.3 Cooling System**

The manufacturer shall provide its heavy-duty cooling system and contain coolant/anti-freeze rated for - 40°. The radiator shall come equipped with a thermostatically controlled fan with an override switch installed in the cab. The radiator shall be equipped with a fixed bug screen behind the grill and in front of the radiator. All water hoses shall be high temperature, reinforced silicone rubber hoses or EPDM (Ethylene Propylene Diene Monomer).

**3.4 Electrical System**

- System Voltage: 12 Volt
- Alternator: 130 amp (minimum).
- Battery: Maintenance free type with 1825 CCA (minimum) at 0° F.
- Resettable breakers shall be supplied in lieu of fuses where available.

**3.5 Transmission**

The transmission shall be an Allison automatic transmission with six (6) forward speeds and one (1) reverse speed designed for on/off highway use (reference models 4000 RDS P or HD 4560P). In addition, the transmission shall have a PTO provision and shall be equipped with a factory water-to-oil transmission cooler. The controls shall be push button activated with a range hold option. Transmission shall be filled with synthetic transmission fluid (reference Allison Transynd) and labeled as such.

**3.6 Brakes**

Self-adjusting air brakes with an Anti-lock Brake System (ABS) shall be included. Brakes shall come equipped with an air compressor capacity of 15 CFM (minimum) and include a heated air dryer. The truck shall be supplied with the Trailer Air Brake Package complete with all controls allowing the release of the trailer spring brakes without releasing the truck parking brake.

**3.7 Steering**

Steering gear shall have either double steering boxes or a single steering box and a power assist ram.

**3.8 Wheels & 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 315/80/22.5, Load Range J (minimum), and the rear tires shall be size 11R22.5 Load Range G (minimum). The front tires shall have a highway type tread and the rear tandem axle tires shall have a on/off 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), and meet the minimum GAWR. All wheels supplied on the order shall be of the same make and model. All wheels shall be of the 10-stud, hub-piloted, steel type with two hand holds (minimum), and wheel widths shall be as recommended by The Tire and Rim Association Inc. and the tire manufacturer. Tire chain clearance shall be provided for dual tire chains with triple side chains.

**3.9 Axles**

The front axle shall have a Gross Axle Weight Rating (GAWR) of at least 16,000 pounds and shall be set back approximately 40-inches. The front axle shall be equipped with Stemco style hub seals with site glass and shall be filled with synthetic oil and labeled as such. The rear axles shall have a combined GAWR of at least 40,000 pounds and be a single reduction tandem type with both axles driving. Rear axle ratio shall be determined by the truck manufacturer in order to maintain a 65 MPH road speed under full load. The rear axle shall be supplied with an inter-axle lock and a differential lock on the front tandem with controls and an indicator light. The rear axle shall have Stemco type seals filled with synthetic oil and labeled as such. Rear axles shall come equipped with an ABS traction control system that works in conjunction with the ABS braking system. When fully loaded, maximum weights on each axle shall not exceed the most recent State of California Vehicle Code.

**3.10 Suspension**

The front suspension shall be the tapered leaf type with heavy duty shock absorbers. Rear Suspension shall be an air ride type suspension with transverse track bars and heavy-duty

shock absorbers. It shall include a valve in the cab to release the air pressure in the suspension to aid in loading and unloading of the equipment trailer.

### **3.11 Frame**

The Resistance Bending Moment (RBM) of the frame shall meet the crane manufacturer's minimum requirements and shall not be less than 1,500,000 in.-lbs. per rail. The rails shall be fabricated from steel with minimum yield strength of 110,000 PSI. Each rail shall be full length with no splicing or added extensions. The end of the frame rails shall be straight.

### **3.12 Trailer Connections**

A buck plate shall be fabricated from 5/8-inch plate steel and welded to the end frame rails with adequate diagonal bracing. An automatic coupler-type hitch shall be mounted on the buck plate at a vertical height of 29 inches  $\pm$  2 inches from level ground and shall have a minimum rated GCVW of 100,000 lbs. (reference Holland PH 300 with air plunger or equal). Glad hand and glad hand covers for service and emergency air lines, a seven pin electrical trailer receptacle, and two D-rings shall be installed on the buck plate.

### **3.13 Electrical**

The completed truck shall have rubber grommet mounted LED lighting system to include two (2) 4 inch stop, tail, turn lights (minimum), 2 ½ inch reflectorized side marker and identification lights, two (2) back up lights, and a license plate light with mount. An electric, weatherproof, backup alarm with automatic adjusting variable sound from 87 to 112 dB (A) shall be installed at the rear (reference Ecco model SA940, SA917, or equal). Install Two (2) seven-conductor electrical socket for trailer jumper cable (Ref. Pollak 11-720, or equivalent). One shall be wired per SAE J506b specification and labeled SAE. The other shall be wired per the attached drawing # MEO-BP-01 and shall be labeled DWR.

### **3.14 Fuel Tank**

Aluminum fuel tanks with a total capacity of no less than 150 gallons.

### **3.15 Air Conditioning**

A multi-speed cab heater, air conditioning and windshield defroster shall be included. The system shall come equipped with fresh air ventilators or combination fresh air and recirculating ventilation system

### **3.16 Cab**

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

- 3.16.1 Dual visors
- 3.16.2 Ash tray and 12 volt DC interior power outlet (cigar lighter type).
- 3.16.3 Dual, two-speed, windshield wipers with intermittent feature.
- 3.16.4 Dual windshield washers.
- 3.16.5 Instrument Cluster shall contain, at a minimum the following items:
  - Speedometer
  - Tachometer (with redline indicator)
  - Coolant temperature
  - Primary and secondary air pressure
  - Oil pressure
  - Fuel level
  - System voltage
  - Engine running time (hour meter)
- 3.16.6 Interior lights activated by opening either door and with a manual switch.
- 3.16.7 Air horns

- 3.16.8 Right and left outside rearview mirrors shall be power operated and heated with control switch(s) inside the cab. The mirrors shall be stainless steel with 102-inch wide spacing.
- 3.16.9 Visibility window in the lower forward section of the right door or a look down mirror.
- 3.16.10 Driver and Passenger side windows shall be power operated.
- 3.16.11 Steps and grab handles to safely enter and exit the cab on both sides.
- 3.16.12 Floor mats, headliner and full cab insulation.
- 3.16.13 Driver and passenger seats shall be adjustable air-ride suspension type with high back head support and dual arm rests.
- 3.16.14 Seat belts for all seating positions.
- 3.16.15 Interior color shall be one of the neutral colors among the manufacturer's standard colors.
- 3.16.16 Three sets of keys shall be provided.
- 3.16.17 All locks shall be keyed alike.
- 3.16.18 Standard manufacturer's AM/FM/WB (Weather Band) radio, speakers and antenna.
- 3.16.19 Cruise Control.
- 3.16.20 Adjustable tilt and telescoping steering column.
- 3.16.21 Daytime running lights.

### 3.17 Paint

The cab, hood and fenders shall be finish painted with the manufacturer's standard white lead-free enamel paint (lead-free: 100-PPM maximum based on dry paint). The finish coat shall be free from runs, drips, sags, etc., and shall be evenly applied to provide a gloss finish. All other components shall be painted according to factory standard colors. Identification plates and labels placed on equipment and components by various manufacturers shall not be painted over.

### 3.18 Miscellaneous

The following miscellaneous equipment shall be furnished and installed:

- Tow hook(s) or pin(s) mounted on the front for towing the vehicle.
- Provide one spare front wheel and tire and one rear wheel and tire matching the brands and models being supplied with the chassis (no mount required)
- Rear mud flaps (anti-sail type) and 12 gage (minimum) steel mud guard in front of rear tandem axles on both sides to protect the tool boxes and any exposed components from debris thrown radially from the rear wheels. The combination of the rear mud flaps, body and steel mudguard shall cover the tires of the rear tandem axles and serve as a full fender.
- Diamond tread cover on battery box

## 4 CRANE AND FLATBED REQUIREMENTS

### 4.1 Crane

- 4.1.1 The crane shall be a behind the cab mounted hydraulically operated telescoping boom crane with a fully extended minimum horizontal reach of 70 feet.
- 4.1.2 The crane capacity shall be greater than or equal to 40,000 pounds and shall comply with the following:

- Load Lift rating @ 10' load operating radius shall be greater than or equal to 18,500 pounds.
  - Load Lift rating @ 35' load operating radius shall be greater than or equal to 4,500 pounds.
  - Load Lift rating @ 65' load operating radius shall be greater than or equal to 1,400 pounds.
  - Crane shall be capable of performing any rated lift at any point within a minimum 360° radius about the chassis.
- 4.1.3 Boom:
- Shall be equipped with minimum of three (3) sections.
  - Sections shall be hydraulically operated.
  - Horizontal reach shall be greater than or equal to 65 feet and vertical reach shall be greater than or equal to 70 feet.
  - Shall be made of high strength steel and telescoping sections shall be supported on low friction replaceable wear pads.
  - Wear pads shall be serviceable.
  - Boom extension/retraction and elevation shall be through double-acting hydraulic cylinders equipped with holding valves.
  - Shall have a minimum 360° rotation.
  - Shall be supplied with continuous rotation if it is available as an option.
- 4.1.4 Crane rotation shall be hydraulically powered.
- 4.1.5 Shall be equipped with a minimum of one downhaul block and one sheave block.
- The sheave block shall match the maximum number of line parts the crane utilizes to meet the rated capacity of the crane.
- 4.1.6 Shall be equipped with multiple-section hydraulic pump(s) driven by truck power take off.
- Pumps capacity and pressure shall be sufficient to operate at least three crane functions simultaneously and not cause a drain on the others.
  - Shall be equipped with an auxiliary oil cooler.
  - Hydraulic cylinders shall be heavy duty, double acting with holding valves.
  - Reservoir shall be the manufacturer's standard size for the crane furnished which shall be large enough to maintain oil temperature at a proper working level as recommended by the hydraulic fluid manufacturer.
  - Shall be equipped with a magnetic plug in the bottom of the hydraulic fluid reservoir.
  - Shall be equipped with a 100 to 150 mesh wire strainer at the hydraulic fluid reservoir outlet line.
  - Shall be equipped with a standard manufacturer's full flow replaceable element filter with restriction gauge to signal when new element is needed at the hydraulic fluid reservoir return line.
- 4.1.7 Shall be equipped with a hydraulically sense capacity overload and/or load moment indicator.
- Those boom functions that could be used to bring the load back into an acceptable capacity situation shall remain operational.
  - This system shall be fully automatic and shall not have any type of manual override.
- 4.1.8 Shall be equipped with an anti-two block device.
- 4.1.9 Crane shall be installed behind the cab with a sub-frame.
- Sub-frame shall be heavy-duty structural steel welded construction.

- 4.1.10 Shall be equipped with independently controlled forward and rear outriggers with complete hydraulic functionality.
- "Down and Out Style" outriggers shall be supplied, if available, in lieu of "A-Frame Style" outriggers.
  - Road clearance when retracted shall not be less than any truck component.
  - Outrigger spread shall be suitable for the complete unit as specified to allow full capacity of the crane.
  - The additional of a front stabilizer maybe necessary to provide the full rating of the crane in all quadrants.
  - Shall be equipped with sand pads and storage provisions for pads.
- 4.1.11 Shall be equipped with transmission mounted, "air shift" PTO.
- Shall be equipped with cab-mounted controls and an over-speed control.
  - Shall be equipped with an indicator light mounted in the cab to indicate when the PTO is engaged.
  - All controls shall be clearly and permanently labeled.

## 4.2 Body

- 4.2.1 Shall be equipped with an 8 foot wide x 20 foot long (minimum), heavy-duty flatbed body.
- Body structure shall have full-length structural steel, channel section, longitudinal sills with support gussets; high strength steel, "C" or channel section cross sills and steel side and end rails. Cross sill spacing shall be approximately 12".
  - Deck surface shall be wood and be able to support a minimum payload of 10,000 pounds.
  - Body shall have a goal post-style reinforced plate steel headboard with expanded metal to allow the driver to see out of the rear window. The headboard shall be constructed using square structural steel tubing.
  - Shall be equipped with load binders with heavy-duty hooks, minimum five (6) on each side and equally spaced apart.
  - In addition to the load binders, there shall be steel tie down hooks welded underneath the bed along both sides on each cross member suitable for securing cargo with a minimum 3/4-inch diameter rope.
  - Shall be equipped with reinforced stake pockets for common mill cut (2"x 4") wood.
  - Body shall be painted black.
- 4.2.2 Shall be equipped with two (2) under bed storage boxes.
- Boxes shall have flush mounted, key lockable door latch and dust seal around door.
  - Boxes shall be constructed of minimum 12-gauge steel, approximately 18" tall x 18" deep x 36" wide.
  - Box mounting bracket shall be structural steel, bolted to truck frame. Bracket shall support bottom edges of box and shall have adequate structural bracing.

ELECTRIC BRAKE, WHEN APPLICABLE  
blue, 12 ga

TAIL LIGHT; CLEARANCE & ICC MARKERS  
brown, 12 ga

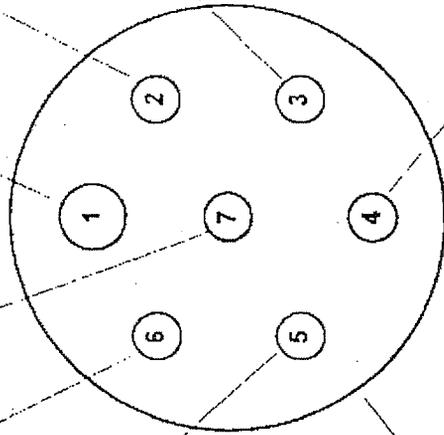
RIGHT TURN SIGNAL; STOP LIGHT  
green, 12 ga

GROUND  
white, 10 ga

AUXILIARY  
black, 12 ga

LEFT TURN SIGNAL; STOP LIGHT  
yellow, 12 ga

BATTERY, WHEN APPLICABLE  
red, 12 ga



FACING THE PLUG

**NOTE:**

1. Use (7) wire rubber covered cable with (1) 10 ga and (6) 12 ga wires.
2. Use combination STOP, TAIL, and TURN lights.
3. Reference POLLAK 11-700 plug.

STATE OF CALIFORNIA  
DEPARTMENT OF WATER RESOURCES  
DIVISION OF MANAGEMENT SERVICES  
MOBILE EQUIPMENT OFFICE

WIRING DIAGRAM FOR TOW VEHICLE BUMPER PLUG

SCALE	N/A	DATE	3-15-2000	DRG.#	
DRAWN	J Yang	FILE			MEO - BP - 01
CHECK		APPROVED			SHEET 1 OF 1



STATE OF CALIFORNIA  
QUESTIONNAIRE  
TRUCK, 56,000 GVWR, 70FT TELESCOPIC CRANE

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

Make International  
Model 7700 SFA 6x4

**1. Capacity:**

Manufacturer GVWR 56,000  
Manufacturer GCWR 100,000  
Total Curb Weight 16,259

**2. Wheelbase:**

Wheelbase 270-280 In.  
Cab to Axle Centerline 168.10 In.  
Cab to End of Frame 266 In.

**3. Engine:**

Make International Maxxforce  
Model 11  
Gross HP 390 minimum @ 2100 RPM  
Gross Torque 1400 minimum @ 1000 RPM  
Engine Brake Type International retarder  
Air Cleaner, Dual Element  Yes  No  
Fuel Water Separator  Yes  No

**4. Frame:**

Minimum RBM 2,311,000 Lbs. In/Rail  
Minimum RBM at Engine Notch 2,311,000 Lbs. In/Rail  
Section Modulus 22.34 In<sup>3</sup>  
Yield Strength 120,000 PSI

**5. Transmission - Specification:**

Manufacturer Allison  
Model 4000 RDS  
Filled with synthetic transmission fluid? (Y/N) Yes  
Lubricant change interval 48 mo. / 150,000 / 6,000 hrs. months/miles  
PTO Provision Yes  No   
Water to Oil Transmission Cooler Yes  No

6. **Cooling System:**

Coolant w/ 100,000 mile (min.) warranty or filter and conditioner? 100K Warr  
Coolant product name Shell Rotella  
Coolant change interval 300,000 months/miles  
Coolant Rating -40 Degrees

7. **Electrical system:**

System Voltage 12 Volts  
Alternator 1100 Amps  
Battery 1950 CCA @ 0 Degrees F.  
Breakers/Fuses Fuses

8. **Exhaust:**

Number of Mufflers 1  
Vertical or Horizontal Horizontal  
Number of Stacks 1  
Vertical or Horizontal Vertical (right side)

9. **Brakes:**

Anti Lock Brakes Yes  No   
Air Brakes, Self-Adjusting Yes  No   
Air Compressor Capacity, w/heated air dryer 15.9 CFM  
Trailer Air Brake Package Yes  No

10. **Steering:**

Double Steering Box  or  
Single Steering Box with Power Assist Arm

11. **Front Axle:**

Make/Model Dana Spicer  
Manufacturer Rating 16,000 Lbs.  
Set-Back? (Yes/No) Yes Distance 399 In.  
GAWR 16,000 Lbs.  
Hubs filled with synthetic gear lubricant? (y/n) Yes  
Lubricant product name Emgard 50w  
Lubricant change interval 60-100,000 months/miles  
Increased product warranty w/ syn. Lube? (y/n) Yes months/miles

12. **Rear Axle:**

Make/Model Dana Spicer  
Mfg Rating 40,000 Lbs.  
Ratio 6.17 Single or Two Speed Single

Electronic Traction Control? (Yes/No) Yes  
 Both Axles? (Yes/No) Yes  
 GAWR 40,000 Lbs.  
 Differentials filled with synthetic gear lubricant? (Y/N) Yes  
 Lubricant product name Emgard 75 (90W)  
 Lubricant change interval 50,000 months/miles  
 Increased product warranty w/ syn. Lube? (Y/N) Yes months/miles

13. **Rear Suspension:**

**Spring Type:**

Make/Model Hendrickson (HAS-402-55)  
 Capacity at ground 40,000 lbs.

14. **Tires:**

	Front	Rear
Tire Size	<u>315/80R 22.5</u>	<u>11R 22.5</u>
Load Range	<u>L</u>	<u>H</u>
Load Range	<u>20 ply</u>	<u>16 ply</u>

15. **Wheels:**

	Front	Rear
Rim Size	<u>22.5 (10 stud)</u>	<u>22.5 (10 stud)</u>

16. **Frame:**

Resistance Bending Moment (RBM) 2,311,000 inch lbs per rail.  
 Rail Yield Strength 120,000 PSI

17. **Trailer Connections:**

Automatic Coupler-type Hitch GCVW 100,000 lbs

18. **Fuel Tank capacity** 180 Gal

19. **CAB**

Dual Visors	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
12 VDC Interior Power outlet	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Dual, two-speed Windshield Washers	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
In-Dash Instrument Cluster		
• Speedometer	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
• Tachometer (w/Redline Indicator)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
• Coolant Temperature	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
• Primary & Secondary Air Pressure	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
• Oil Pressure	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
• Fuel Level	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
• System Voltage	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

- Engine Running Time Yes  No
- Interior Lights activated by opening either door and by manual switch Yes  No
- Air Horns Yes  No
- Power/Heated, Right & Left outside Rear-View Mirrors w/internal control switches Yes  No
- Power Windows, Driver & passenger Yes  No
- Air Ride Seats, Driver & Passenger Yes  No
- Grab handles, Exterior, both side of cab Yes  No
- Floor Mats & Headliner, Full Cab Insulation Yes  No
- Three-Point Seat Belt, Driver & passenger Yes  No
- Three sets of keys Yes  No
- AM/FM Weather Band radio, speakers, Antenna Yes  No
- Cruise Control Yes  No
- Adjustable Tilt Telescoping Steering Wheel Yes  No
- Front Mounted Tow Hooks Yes  No

**20. Crane:**

Minimum Horizontal Reach 29 Ft.  
 Capacity 44,000 lbs.  
 Load Lift rating @ 10' load operating radius 22,000 lbs.  
 Load Lift rating @ 35' load operating radius 7,120 lbs.  
 Load Lift rating @ 65' load operating radius 2,280 lbs.

• Boom

Horizontal reach 77 ft.  
 Vertical Reach 86 ft.  
 Rotation 372 degrees

**21. Body:**

Flat Bed Measurements Width 8 ft Length 22 ft.  
 Deck Surface Covering Material wood  
 Deck Surface Material support \* Min. 10,000 lbs  
 Two Lockable, Flush mounted Under Bed Storage boxes Yes  No   
 Number of Load Binders minimum of 5 each side  
 Max Towing Weight Min. GCVW 100,000 lbs

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

Coastline Equipment  
Company

  
Signature

325 N. 5<sup>th</sup> Street  
Street Address

Mike Calderon (Sales Representative)  
Name and Title

Sacramento, Ca. 95814  
City, State, Zip Code

916-440-8090  
Telephone Number

LIST ANY ADDITIONAL INFORMATION OR EXCEPTIONS TO THE SPECIFICATIONS BELOW