



STATE OF CALIFORNIA  
Department of General Services - Office of Procurement

**PURCHASE ORDER**

Purchase Order No. **62252** Rev. **6/30/2008** Date

Form GSOP 1-PIN (04/98)

<b>Supplier No.</b> 811968	<b>Solicitation No.</b> 57003	<b>Delivery Date</b> 60 Days ARO	<b>FOB Point</b> Destination	<b>Invoice Terms</b>
<b>S</b> NAPA STATE HOSPITAL <b>h T</b> 2100 NAPA-VALLEJO HIGHWAY <b>i o</b> NAPA, CA 94558-6293 <b>p</b> Attn: MAIN WAREHOUSE		<b>C</b> NAPA STATE HOSPITAL <b>h a T</b> ACCOUNTING OFFICE <b>r o</b> 2100 NAPA-VALLEJO HIGHWAY <b>g e</b> NAPA CA 94558-6293		
<b>Agency Billing</b> 49802	<b>Agency Purchase Estimate</b> 7-EST-0001	<b>Purchase Estimate</b> 67009	<b>Revision</b> 1	
<b>Agency Contact</b> CHRISTINE WATANABE		<b>Phone</b> 707-253-5567	<b>Date Received</b>	

ELKINS ELECTRIC COMPANY  
1858 ACKELY CR. # 3-B  
OAKDALE, CA 95361  
Attn: B. KEVIN ELKINS

Phone: 209-084-5915

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/modelang/GPnonIT0407.pdf">www.documents.dgs.ca.gov/pd/modelang/GPnonIT0407.pdf</a></p> <p>THE FOLLOWING INFORMATION IS PROVIDED FOR AGENCY USE ONLY: PRIME CONTRACTOR: NS FISCAL YEAR: 2007/2008</p>						
1	3	EA	5925-592-7925-6	CIRCUIT BREAKER (AS DESCRIBED)	30,656.0000	91,968.00
<p>Medium Voltage Circuit Breaker shall furnished, delivered, and installed as described in Specification # 5925-08BS-001R1 and in accordance with Contractor's License Requirements.</p> <p>Each circuit breaker shall be mechanically and electrically tested before they are installed in each designate breaker cubicles, as per the attached Specification # 5925-08BS-00R1, Contractor's License Requirements and Manufacturer's Recommendations.</p> <p>During the testing and installation the Contractor shall provide training for central plant operators and electrical personnel.</p>						
<p><u>PD Miscellaneous Charges and Discounts</u></p> <p>INSTALLATION</p>						<p><u>Dollar Value</u></p> <p>4,575.00</p>
<p>Total Value:</p>						<p>96,543.00</p>
<p><b>ATTACHMENTS</b> THE FOLLOWING ATTACHED DOCUMENTS ARE PART OF THIS PURCHASE ORDER. SPECIFICATIONS # 5925-08BS-001R1 OF ONE (1) PAGE, DATED MAY 5, 2008.</p>						

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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**PURCHASE ORDER CONTINUATION**

Form GSOP 2-PIN (04/98)

<i>Purchase Order No.</i> <b>62252</b>	<i>Revision</i>	<i>Date</i> 6/30/2008	<i>Supplier No.</i> 811968	<i>Supplier Name</i> ELKINS ELECTRIC COMPANY
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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>
<p><u>F.O.B. Destination:</u></p> <p>For the purpose of this order only F.O.B. Destination will be accepted.</p> <p><u>DECREASING / INCREASING PURCHASE QUANTITIES</u></p> <p>NAPA STATE HOSPITAL RESERVES THE OPTION TO INCREASE OR DECREASE THE QUANTITY PURCHASED. AT THE TIME OF AWARD THE OPTION TO PURCHASE ADDITIONAL UNITS UNDER THE SAME BID AND SET PRICE, FOR UP TO 180 DAYS FROM THE AWARD OF PURCHASE.</p> <p><u>PRE-INSTALLATION MEETING</u></p> <p>Supplier will schedule a pre-installation meeting with in seven (7) days of receipt of the purchase order. The meeting will be held at the State's facility, between the supplier's representative and members of Napa State Hospital, Plant Operations staff.</p> <p>This meeting shall take place at no cost to the State. Pre-installation meeting will be held at the State's address listed below:</p> <p>NAPA STATE HOSPITAL 2100 NAPA-VALLEJO HIGHWAY NAPA, CA 94558-6293</p> <p>CONTACT: Victor Garcia Phone: (707) 253-5667</p> <p><u>INSTALLATION &amp; WORKMANSHIP:</u></p> <p>The building and the areas near which the building will be occupied during installation. Therefore, adjustments will be made to give Contractor maximum freeaccess to the work areas without undue interference. Contractor's employees, equipment, and etc., shall be restricted to the immediate area of work.</p> <p><u>CONTRACTOR RESPONSIBILITY:</u></p> <p>The contractor must meet his/her obligation to his/her employees with regard to the Federal and State Hazardous Communications Standards as set forth in 29 CFT 19:10.1200 GISD, Section 5194; California Labor Code, Section 6360 and any other applicable Local, State, or Federal requirements.</p> <p>Regulations and Codes:</p> <p>The services covered by the contract must conform to the State of California code, Title 17.</p> <p><u>SECURITY REGULATIONS:</u></p> <p>Contractor understands that services may be performed in the Central Plant and agrees that Contractors and his/her representative shall follow any and all rules, regulations, and requirements in forced at Napa State Hospital. <u>Failure to comply shall constitute grounds for immediate termination of the contract.</u></p> <p><u>WORK HOURS:</u></p> <p>Work hours for this project are from 8:00 AM to 4:30 PM, Monday through Friday. No work shall be accomplished at any other time except by special arrangements with the Chief of Plant Operations III, Napa State Hospital.</p>						

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<p><u>INTERFERENCE WITH HOSPITAL OPERATIONS:</u></p> <p>The Contractor shall make provision to accomplish the work of this project without undue interference with the operations of the Hospital.</p> <p><u>INSPECTIONS:</u></p> <p>Inspections may be carried out by the Chief of Plant Operations III or his designated representative at anytime during the work.</p> <p><u>WORK TO BE COMPLETED BY CONTRACTOR FOR EACH CIRCUIT BREAKER:</u></p> <p>MECHANICAL CHECKS:</p> <ul style="list-style-type: none"> <li>* Inspect breaker assembly primary and finger clusters.</li> <li>* Rack circuit breaker in and out of cell to ensure proper fit.</li> <li>* Inspect vacuum bottles, inspect wire, closing and opening sequence, open gas and alignment.</li> <li>* Check operating mechanism for proper operation.</li> </ul> <p>ELECTRICAL CHECKS:</p> <ul style="list-style-type: none"> <li>* Test control wiring insulation.</li> <li>* Check insulation and integrity with hipot tests.</li> <li>* Check breaker insulation resistance with DC Megohmmeter.               <ul style="list-style-type: none"> <li>I. Phase to Phase - Breaker Closed</li> <li>II. Phase to Ground - Breaker Closed</li> </ul> </li> <li>* Operate breaker electrically and/or mechanically several times to ensure smooth operation.</li> <li>* Check contact resistance with low resistance Ohm Meter.</li> <li>* Check breaker insulation resistance DC Megohmmeter.               <ul style="list-style-type: none"> <li>I. Phase to Phase - Breaker Closed.</li> <li>II. Phase to Phase - Breaker Closed.</li> </ul> </li> </ul> <p><u>MAINTENANCE MANUALS, ACCESSORY TOOLS, TRAINING, WARRANTY:</u></p> <p>MAINTENANCE MANUALS:</p> <p>The Contractor shall provide three (3) manufactures circuit breaker service / maintenance manuals and showing spare parts breakdown and circuit breaker adjustments and tolerances.</p> <p>ACCESSORY ITEMS - TOOLS:</p> <p>Circuit breakers shall be provided with one set of tools including charging racking handles and spring release tools.</p> <p>TRAINING:</p> <p>The supplier shall provide two (2) hours of basic operation mechanism training to Central Plant and Electrical personal familiarizing them with the new breaker operations.</p> <p>WARRANTY:</p> <p>The manufacturer/supplier shall provide a one year warranty on the mechanical and electrical components and operation of each circuit breaker.</p> <p>Warranty shall commence after successful testing and acceptance of cicruit breakers.</p>						

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<p><u>AWARD DATE</u></p> <p>This purchase order is being awarded on September 28, 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><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 44400908334918.</p> <p><b>CHANGE ORDERS:</b></p> <p>Any Purchase Order resulting from this bid 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>						



## 1. GENERAL

### 1.1 INTRODUCTION

This bid specification describes requirements for procuring circuit breakers that will directly replace existing vacuum circuit breakers Siemens model #5-MSV-250-1200-58 in existing Siemens medium voltage switchgear. The replacement circuit breakers shall be:

- functional replacements (both mechanical and electrical) for the existing circuit breakers
- directly interchangeable between the breaker cells and designated feeders of the same MVA class and interrupt rating of the original equipment without cell modifications
- fully compatible with the existing switchgear compartments and shall meet form, fit, function and inter-member for the Siemens medium voltage switchgear

## 2 REQUIREMENTS

### 2.1 GENERAL REQUIREMENTS

- 2.1.1 No cable rerouting and no cable modification to the switchgear cabinet shall be necessary.
- 2.1.1 All materials shall be new, unused with no reconditioned parts.
- 2.1.1 All breakers shall be tested mechanically and electrically before and after the installation.

### 2.2 PRODUCT REQUIREMENTS

- 2.2.1 Breaker shall be a horizontal latch type, designed to fit in a standard 23" wide compartment of Siemens switchgear.
- 2.2.2 Breaker shall be a "roll-in replacement" such that no modification to the existing vacuum switchgear cabinet shall be necessary.
- 2.2.3 Breaker shall meet or exceed all applicable ANSI requirements for new general-purpose breakers included but not limited to ANSI C37.04, C37.06, C37.09, C37.20.2, C37.55, and C37.100.

### 2.3 CIRCUIT BREAKER

- 2.3.1 Normal RMS voltage class: 4.16 kV
- 2.3.2 Normal 3-phase class: 250 MVA
- 2.3.3 Rated maximum RMS voltage: 4.76 kV
- 2.3.4 Rated voltage range factor,  $K=1.24$
- 2.3.5 Basic impulse voltage: 60 kV
- 2.3.6 Continuous RMS current rating @ 60 Hz: 1200 A
- 2.3.7 Short circuit RMS current rating: 29,000 A
- 2.3.8 Rated interrupting time: 5 cycles
- 2.3.9 Closing and latching capability RMS current: 58,000 A
- 2.3.10 Close coil: 125 volts DC
- 2.3.11 Trip coil: 125 volts DC
- 2.3.12 Spring Charging motor: 125 volts DC