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CITY COUNCIL MEETING

DECEMBER 8, 1982

SPECIFICATIONS  
APPROVED FOR  
60 kv METERING  
UNITS

COUNCIL APPROVED THE SPECIFICATIONS FOR SINGLE-PHASE,  
OUTDOOR, 60 kv METERING UNITS FOR THE UTILITY DEPARTMENT  
AND AUTHORIZED THE PURCHASING AGENT TO ADVERTISE FOR BIDS  
THEREON.

# COUNCIL COMMUNICATION

TO: THE CITY COUNCIL FROM: THE CITY MANAGER'S OFFICE	DATE DECEMBER 1, 1982	NO. <u>10</u>
SUBJECT: SPECIFICATIONS FOR THE PURCHASE OF 60-KV METERING UNITS (UD-E82-10)		

Specifications for the purchase of three single-phase, outdoor, 60-kv metering units are presented for Council's approval and permission to advertise for bids is requested. The bid opening date has been set for Tuesday, December 28, 1982.

The metering units are a component of the 60-kv metering facility at Killelea Substation, authorized in the 1982-83 Utility Outlay Budget.

The estimated cost of this purchase is \$22,500 with delivery expected in approximately three months.



\_\_\_\_\_  
David K. Curry  
Utility Director

Attach.

**Specifications**

**SINGLE-PHASE METERING UNITS**

**UD-E82-10**

**December, 1982**

NOTICE INVITING BIDS TO  
FURNISH AND DELIVER SINGLE-PHASE METERING UNITS  
TO  
CITY OF LODI, CALIFORNIA

The City of Lodi hereby invites sealed proposals for furnishing and delivering single-phase metering units.

Each bid shall be in accordance with specifications on file in the office of the Utility Director, City Hall, City of Lodi, California 95240, where copies of said specifications may be inspected or obtained. No bid will be considered unless it is submitted on a proposal form furnished by the City of Lodi.

Said sealed proposals shall be delivered to the Purchasing Agent at the City Hall, 221 West Pine Street (P. O. Box 320 - 95241), Lodi, California, at or before

11:00 A.M., TUESDAY, DECEMBER 28, 1982

and will be publicly opened on said day and hour in the Council Chambers in the City Hall, Lodi, California.

The City of Lodi reserves the right to reject any or all bids, to waive any informality or irregularity in any bid, to accept other than the lowest bid, or not to award the bid.

Reference is hereby made to said specifications for further details.

CITY OF LODI

James W. Pruss  
Purchasing Agent

## INFORMATION TO BIDDERS

### BID OPENING

- A. The purchasing Agent will receive sealed bids in his office, City Hall, 221 West Pine Street, Lodi, California 95240, until the time for opening bids as noted in the "Notice Inviting Bids." Bidders or their authorized agents are invited to be present.
- B. The proposal shall be submitted as directed in the "Notice Inviting Bids" under sealed cover plainly marked as a proposal, and identifying the equipment to which the proposal relates and the date of the bid opening therefor. Proposals which are not properly marked may be disregarded.

### PROPOSAL FORM

- A. Prospective bidders are furnished with one proposal form included with the specifications.
- B. The proposal must be signed with the full name and address of the bidder, if a co-partnership, by a member of the firm; if a corporation, by an officer in the corporate name.
- C. The purchaser reserves the right to accept other than the lowest bid and to reject any or all bids.

### REJECTION OF PROPOSALS

Bids may be rejected if they show any alterations of proposal form, additions not called for, or alternative bids not properly documented. Bids proposing equipment with which the City has no prior in-service experience may be rejected. Erasures or irregularities of any kind may also be cause for rejection.

### AWARD OF BID

- A. The award of the bid, if it be awarded, will be to the lowest responsible bidder whose bid proposal complies with all the requirements described.

AWARD OF BID (continued)

- B. Where alternate bids are received, the City Council reserves the right to select the bid most advantageous to the City. The award, if made, will be made within thirty (30) days after the opening of the bids.

DELIVERY

Delivery time will be part of the bid evaluation, and delivery shall be clearly indicated on the proposal. Truck delivery shall be made only during normal working hours.

PRICES

All quoted prices shall be current\* and firm for at least thirty (30) days after date of bid opening. Escalation clause(s) and base indices shall be clearly specified. Maximum escalation shall also be indicated. Prices to be F.O.B. Lodi, California.

SALES AND USE TAXES

All quotations submitted shall include California state sales or use taxes.

PAYMENTS

- A. Invoices shall indicate sales or use taxes as separate items apart from the cost F.O.B. point of delivery. Purchaser's specifications and order number shall appear on all invoices. All invoices shall be rendered in triplicate.
- B. Full payment by purchaser shall not release supplier of his responsibility to fully carry out his bid obligations nor be construed by supplier as acceptance of the work hereunder by purchaser.

\* December, 1982.

GUARANTEES

- A. In addition to any or all guarantees mentioned elsewhere herein, the supplier shall repair and/or replace entirely at his own expense any parts or part that may develop defects due to faulty material, workmanship or design within a period of at least one year after the equipment has been accepted by the purchaser.
- B. This transaction will be covered by City of Lodi purchase order and all terms included in Information to Bidders, Proposal and Detailed Specifications will be binding.

PROPOSAL

UD-E82-10 - SINGLE-PHASE METERING UNITS

FOR

THE CITY OF LODI, CALIFORNIA

PROPOSAL

TO FURNISH EQUIPMENT AS SPECIFIED IN THESE SPECIFICATIONS FOR THE CITY OF  
LODI, CALIFORNIA.

Name of Bidder \_\_\_\_\_

Address of Bidder \_\_\_\_\_

To the Lodi City Council  
City Hall  
Lodi, California

The undersigned, as bidder, declares that he has carefully examined the Information to Bidders and Specifications filed for furnishing and delivering equipment, and agrees that he is fully informed regarding all of the conditions affecting the materials to be furnished for the completion of the work, and that his information was secured by personal investigation and research and not from any estimate of the engineer; and that he will make no claim against the City by reason of estimates, tests or representations of any officer or agent of the City; and he proposes and agrees that, if the proposal be accepted, he will furnish the City of Lodi the necessary apparatus and materials specified in the bid in the manner and time therein set forth. It has been noted the City of Lodi reserves the right to accept all or part of this bid, and to reject any or all bids or to accept other than the lowest bid.

All items listed below are to be in accordance with the City of Lodi Specifications dated December, 1982. The bidder will submit a detailed list of any and all exceptions taken to these Specifications. In the absence of such a list, it will be understood that the bidder's proposal is based on strict conformance to the Specifications in all respects. If exceptions are taken, they will be cleared before the award is made.

If awarded the bid, the undersigned agrees to furnish and deliver the equipment described in the Specifications and that he will take in full payment therefor the following unit and total prices, to-wit:



It is understood and agreed that if this Proposal is accepted, the price quoted above is inclusive of sales or use tax, or similar tax now imposed by Federal, State, or other governmental agency upon the material specified.

Shipment will be made by \_\_\_\_\_  
(trucks, or railroad cars and trucks)  
and will be consolidated into about \_\_\_\_\_ shipments.  
(number of)

The undersigned submits with this Proposal complete manufacturer's specifications covering all material bid. Failure to provide adequate information may cause rejection of bid.

In any case where discrepancy in extensions may occur, the Bidder agrees that the unit price shall be taken as the correct figure.

The undersigned has checked carefully all the above figures and understands that the City and its officers and employees will not be responsible for any errors or omissions on the part of the undersigned in making up this bid.

The undersigned, as bidder, hereby declares that the only persons or firms interested in the proposal as principal or principals is or are named herein and that no other persons or firms than herein mentioned have any interest in this proposal, that his proposal is made without connection with any other person, company or parties making a bid or proposal; and that it is in all respects fair and in good faith, without collusion or fraud.

The undersigned hereby designates as his office to which such notice of acceptance may be mailed, telegraphed or delivered:

\_\_\_\_\_

This bid may be withdrawn at any time prior to the scheduled time for the opening of bids or any authorized postponement thereof.

SIGNATURE OF BIDDER

\_\_\_\_\_

By \_\_\_\_\_

Title \_\_\_\_\_

Dated: \_\_\_\_\_

Address \_\_\_\_\_

The full names and residences of persons and firms interested in the foregoing bid, as principals, are as follows:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DIVISION 1 - GENERAL REQUIREMENTS

METERING UNITS - OIL FILLED

1-1 GENERAL:

It is the intent of these specifications to describe single-phase, oil-filled, outdoor metering units that combine a voltage transformer and a current transformer into one unit, sharing a common porcelain. The metering units (3) must be suitable for application in a bank, on a three-wire, 60-kv (line-to-line) system. The units to be platform mountable and have two high-voltage connections each.

1-2 PERFORMANCE SPECIFICATIONS:

Bidders shall submit with their bid complete performance specifications and dimensions of the metering units they propose to furnish. Failure to supply such data may be cause for rejection of the bid.

1-3 TESTS:

Metering units shall receive and pass at least the following tests in accordance with the applicable ANSI Standards:

1. Ratio check
2. Polarity check
3. Accuracy test
4. Power factor test
5. Applied (insulation) test

1-4 SERVICE:

The manufacturer shall own and operate a service shop in this vicinity, or the bidder may submit evidence that he has a repair shop contract with an approved service shop in this vicinity, which has been in effect for a period of at least one year.

1-5 GUARANTEE:

The contractor shall guarantee all equipment delivered under these specifications against any and all defects in material and/or workmanship for a period of at least one year from date of acceptance. He shall rectify all such defects by repair or replacement at his own expense and assume responsibility for associated shipping costs.

1-6 SHIPMENT:

Unloading of truck deliveries will be performed only during the normal 40-hour work week. All shipments will be prepaid, F.O.B. Lodi, California.

1-7 TECHNICAL INFORMATION:

The following specifications shall be met:

1. Insulation level: 350 kv BIL (min.).
2. Insulation rating: 55°C rise.
3. Ground pad NEMA 2-hole.
4. All exterior surfaces shall be coated, using a system of coordinated and thoroughly tested materials and application techniques that will assure long life. Special attention shall be given to welds, seams, edges and rough spots.
5. Lifting lugs shall be provided on the base and shall be located in such a way to avoid interference between lifting slings and any attachments on the metering unit and to avoid scratching the surface coating.
6. The unit shall be hermetically sealed to prevent breathing and entry of moisture. A gas 'cushion' above the oil shall be maintained at a positive pressure throughout all temperature extremes at which the unit is to be operated (50 feet above sea level, 25°F - 115°F ambient temperature range).

1-7 TECHNICAL INFORMATION: (continued)

7. Stainless steel diagrammatic nameplate shall be securely attached to the unit by means of stainless steel screws, rivets or other fasteners. The letters and numbers shall be stamped on the nameplate.
8. Sound level: The sound level shall be equal to or better than EEI-NEMA Standards.

1-8 PCB CONTENT:

Fluid must be guaranteed to contain less than 1 p.p.m. Polychlorinated Biphenyls (PCB). Certified test report of PCB content must be produced upon request.

DIVISION 2 - EQUIPMENT SPECIFICATIONS

SINGLE-PHASE, 60 HZ, OIL-FILLED, METERING UNIT

2-1 ACCESSORIES:

In addition to that specified in General Requirements, metering unit shall be provided with the following:

1. NEMA 4-hole primary terminal pad (2).
2. Oil gauge, magnetic type.
3. Oil-filling plug.
4. Oil drain/filling valve.
5. Instruction manual.
6. Test report.

2-2 RATINGS AND DESIGN:

Transformer cores to be manufactured of cold-rolled, high-permeability, grain-oriented silicon steel annealed under controlled conditions.

Porcelain to be one-piece, wet process glazed inside and out having ANSI-70 gray color.

Secondary windings to terminate in a weather-tight terminal box(es) at the base level. Polarity and terminal identification to be clearly marked.

VOLTAGE TRANSFORMER:

Primary Winding: The neutral end of the primary winding is to be brought out through a 5-kv bushing on the tank and grounded with a removable strap.

Secondary Winding: A secondary and a tertiary winding shall be provided, each having a 58% tap, making ANSI C57.13 standard voltage available.

2-2 RATINGS AND DESIGN: (continued)

Rating: 34,500 volts primary for application on a 60-kv line-to-line system and 67.08/115-volt secondary (each winding). Accuracy 0.3 class, W through ZZ burdens. Thermal rating to be minimum 6,500 VA.

CURRENT TRANSFORMER: To be single core with single, dual ratio secondary.

Rating: 600/1200:5 with 1.5 thermal rating factor. Accuracy 0.3 class through B 2.0 burdens (both ratios).

2-3 ALTERNATE BID:

Same unit as specified above, except: Voltage transformer to have a single, no tap secondary winding, rated 115 volt (34,500-volt primary).