



Frankfort Plant Board

BID INVITATION #1654

ISSUED ON

February 26, 2018

BY

**THE ELECTRIC & WATER PLANT BOARD OF THE
CITY OF FRANKFORT, KENTUCKY**

FOR

2000KVA PAD MOUNT TRANSFORMERS

TO BE OPENED ON

March 12, 2018 at 10AM

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III. ADVERTISEMENT FOR BID

**The Frankfort Plant Board
305 Hickory Drive
P.O. Box 308
Frankfort, KY 40602**

Separate sealed Bids for Pad Mount Transformers will be received by the Frankfort Plant Board until 10 A.M. local time, March 12, 2018; and then opened and publicly read aloud.

Specifications may be examined at the following location:

Frankfort Plant Board
Service Center
305 Hickory Drive
P.O. Box 308
Frankfort, KY 40602

No bidder may withdraw his bid for a period of ninety (90) days after closing time scheduled for the receipt of Bids.

The Plant Board reserves the right to waive informalities and to accept or to reject any and all bids.

For Bid Correspondence, contact:

**Leigh Ann Phillips
(502) 352-4423
lphillips@fewpb.com**

For Technical Correspondence, contact:

**Travis McCullar, P.E.
(502) 352-4608
tmccullar@fewpb.com**

IV. INTRODUCTION

PAD MOUNT TRANSFORMERS

The Electric & Water Plant Board of the City of Frankfort, Kentucky issues this Invitation to solicit bids on the purchase of Pad Mount Transformers.

Quoted prices shall be firm F.O.B. with freight included to Frankfort, Kentucky.

This bid can be awarded on an item by item basis.

Please note instructions on Pages 5-7. Failure to adhere to instructions may result in rejection of bid.

**READ CAREFULLY -- BIDDER MUST PROVIDE ALL INFORMATION REQUESTED --
SIGN BID**

If an EEOC Certificate is included as a part of this documentation, it shall be executed and returned as a part of the bid response package. Absence of the EEOC Certificate indicates your organization already has the necessary compliance certificate on file with the Plant Board.

V. INSTRUCTIONS TO BIDDERS**1. SUBMISSION OF BIDS**

A. The following certificates or notices are included as a part of this documentation and shall be returned as a part of the bid response package.

- An Equal Employment Opportunity Compliance (EEOC) Certificate
- A Certification of Nonsegregated Facilities (CONF)
- A General Safety Program (GSP) Notice
- A Drug free Workplace Compliance (DWC)

B. Each bid should be in a SEPARATE SEALED ENVELOPE and have typed on the envelope the INVITATION NUMBER, OPENING DATE, AND TIME. No responsibility will be attached to the Frankfort Electric & Water Plant Board for the premature opening of or failure to open a bid not properly addressed or identified. Bids must be received in the office of the Frankfort Electric & Water Plant Board, 305 Hickory Drive, P. O. Box 308, Frankfort, Kentucky, 40602, in a sealed envelope not later than the time specified for opening of bids, at which time all bids received will be publicly opened and read in the Bid Opening Room. It shall be the Bidder's responsibility that the bids are delivered to the above address no later than the time specified. Bidders are invited to attend public bid openings; also, to review complete bid files after awards have been made.

C. Bids may be rejected unless filled out in ink or typewritten and signed in ink by a proper agent of the firm.

D. Telegraphic bids, facsimile bids, or modifications of bids by telegram are not acceptable.

E. Conditional bids are not acceptable.

F. It is the responsibility of each Bidder before submitting a Bid to:

- Examine the Bid and Contract documents thoroughly.
- Consider federal, state, and local laws and regulations that may affect cost, progress, performance, or furnishing of the work.
- Study and carefully correlate Bidder's observations with the Bidding and Contract documents and notify Owner of all conflicts, errors, and/or the discrepancies.

G. All bids shall remain subject to acceptance for a period of ninety (90) days after the date of the Bid opening.

H. Retain one complete copy of the bid for your file and return original with your bid.

- I. Bids may be withdrawn at any time prior to opening upon written request by the bidder. Negligence on the part of the bidder in preparing his bid shall not constitute a right to withdraw bid after it has been opened.
- J. Bidders are invited to attend public bid opening; also, to review complete bid files after awards have been made.

2. BID SCHEDULE/SIGNATURE PAGE

- A. Bidders should quote on the basis of units stated in this invitation. Unit price should be entered and EXTENDED. In case of error in the extension of prices, the unit price will govern. For discrepancies between figures and written amounts, precedence will be given to the written amounts.
- B. Bids by corporations must be executed in the corporate name by the president or a vice-president (or other corporate officer accompanied by evidence of authority to sign) and the corporate seal must be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation must be shown below the signature.
- C. Bids by partnerships must be executed in the partnership name and signed by a partner, whose title must appear under the signature and the official address of the partnership must be shown below the signature.
- D. All names must be typed or printed below the signature.
- E. The Bid shall contain an acknowledgement of receipt of all Addenda (the numbers of which must be filled in on the Bid Form).
- F. The address, telephone number and contact person for communications regarding the Bid must be shown.

3. QUALIFICATIONS OF BIDDERS

To demonstrate qualifications to perform work, each Bidder must be prepared to submit within five (5) days of Owner's request, written evidence such as financial data, previous experience, present commitments and other such data as may be called for. The Owner may make an investigation as deemed necessary to determine the ability of the Bidder to perform the work, and the Bidder shall furnish to the Owner all such information and data for this purpose, as the Owner may request. The Owner reserves the right to reject any bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the Owner that such Bidder is properly qualified to carry out the obligations of the Contract and to complete the work contemplated therein.

4. AWARD OF CONTRACT

A. The Owner reserves the right to reject any and all Bids and to waive informalities or minor defects. Any Bid may be withdrawn prior to the above scheduled time for the opening of Bids or authorized postponement thereof. Any Bid received after the time and date specified shall not be considered. No Bidder may withdraw a bid within 90 days after the actual date of opening thereof. Should there be reasons why the contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the Owner and the Bidder. In the event that the lowest responsive and responsible bid is within the Owner's budget, the Contract will be awarded to the lowest responsive and responsible Bidder which, in the Owners sole and absolute judgment, will best serve the interest of the Owner

B. In determining the best responsive and responsible Bidder, the following elements will be considered: (1) lowest price, (2) if the Bidder has a satisfactory performance record, (3) if the Bidder has a suitable financial status to meet obligations incidental to the work, (4) if the Bidder involved maintains a permanent place of business, (5) if the Bidder has adequate personnel and equipment to perform the work properly within the time allotted, (6) number of and acceptability by the Owner of any and all proposed Subcontractors, (7) the completeness and regularity of the Bid Schedule and (8) time schedule of delivery. In addition, the Owner may consider in making the determination (1) quality of equipment (or materials), (2) efficiency and environmental aspects of equipment (or materials) (3) the selection of equipment (or materials), (4) alternate equipment (or materials), and (5) deductions or other modifications listed in the Bid Schedule.

5. LAWS AND REGULATIONS

The Bidder's attention is directed to the fact that all applicable State Laws, municipal ordinance, and the rules and regulations of all authorities having jurisdiction over construction of the Project shall apply to the Contract throughout, and they will be deemed to be included in the Contract the same as though herein written out in full.

VI. SPECIFICATIONS

ABOVE 1000 KVA

PAD MOUNT TRANSFORMERS:

These specifications cover **FR3 Fluid** filled, self-cooled, dead front, pad mount type distribution transformers three-phase rated above 1000 KVA at voltages below 15 KV. All Units shall comply with DOE 10 CFR Part 431 Efficiency Compliance with DOE (71 FR 24995) defining liquid filled distribution transformers at Standard Efficiency Levels as specified in DOE Chart, Table I.1(72 FR 58191). **Bids shall include a statement that all units meet or exceed the DOE requirements listed above.**

RATINGS:

KVA: above 1000
 PHASE: Three
 FREQUENCY: 60 Hertz
 PRIMARY VOLTAGE: 13,200 delta DUAL WOUND: No
 AUX. PRIMARY VOLTAGE: delta
 SECONDARY VOLTAGE: 480/277 wye
 TEMPERATURE RISE: 65 degrees C.

GENERAL CONDITIONS:

At a minimum, transformers shall be designed and manufactured in accordance with these specifications and applicable sections of the latest edition of NEMA, ANSI, NEC, and any other applicable standard governing transformers. Units containing rebuilt, used, remanufactured or reconditioned parts will not be accepted.

Losses shall be guaranteed according to ANSI C57-12.00. Certified test reports for losses and voltage ratios shall be furnished to Jim Carter, Engineer, Electric Department within fifteen (15) calendar days of receipt of the unit. A penalty will be imposed for losses exceeding the permitted deviation allowed by ANSI. Load losses shall be quoted at 85^o C and No load losses shall be quoted at 20^o C as well as percent impedance. **Percent Efficiency shall be quoted at 50% load.** The vendor shall submit annually to the Engineering Department, at the time of the annual bid, certified copies of through fault testing on transformers of equal size and characteristics as those to be supplied to the Board. The Board, at their discretion, will perform random testing on the supplied transformers. These tests will include, but not necessarily be limited to: turns ratio, induced voltage, resistance measurements, core and winding losses, mechanical inspection and, in some cases, impulse testing.

We reserve the right to return to the vendor, at vendor's expense, when the tested losses exceed the quoted losses by an amount as to cause a penalty charge equal to or exceeding 25% of the purchase price of the transformer.

Any unit supplied under these specifications which is found to be in violation of these specifications shall be replaced, at vendor's expense, for a like unit which meets specifications.

MECHANICAL CHARACTERISTICS

TANK: The design of the pad-mounted equipment in this specification shall conform to the stipulations, recommendations, opinions and practices of the "Western Underground Committee Guide 2.13", security for pad-mounted equipment enclosures.

Unit shall be of sealed tank construction of sufficient strength to withstand a pressure of 7 PSI without permanent distortion.

Unit shall be primed with a corrosion resistance primer coat and a final top coat of Munsell 7GY 3.29/1.5 pad-mount green.

Paint shall meet or exceed ANSI C57-12.28-1988 Enclosure Coating System.

NAMEPLATE: Shall be stainless steel or aluminum with laser etching with contrast lettering and shall be permanently mounted on the tank. Nameplate data shall include as a minimum: transformer weight, impedance, high and low voltage ratings, winding material, KVA rating, date of manufacture, name of supplying manufacturer, wiring schematic, type of insulating fluid, and other data as required by ANSI C57.12.00 - 1980 standards.

BUSHINGS AND TERMINALS: High voltage bushings shall consist of 200 amp Elastimold universal bushing wells catalog number K160PC-SI with Elastimold 200 amp loadbreak bushing inserts catalog number 1601 A4R or equivalent.

Low voltage terminals for copper or aluminum conductor shall be removable NEMA 10-hole pads with 9/16" diameter holes. Pads are to be furnished with additional support, by means of a support bar mounted to the end of the pads and fastened to the top of the transformer box.

VENTING: Venting shall be by means of an automatic self-sealing pressure release valve installed on the tank wall. The release valve shall be designed to operate and vent to the atmosphere the buildup of gases preventing the eruption of the tank, cover, or bushings.

EXTERNAL MARKINGS: The transformer shall be marked with a nameplate with all pertinent data, the KVA rating and the primary voltage shall be stenciled on the front just above the latching mechanism, the wording "NON PCB" and a plainly marked high voltage switch when applicable (Ref. #4, Other Features). Permanent decals and slight modifications in location are acceptable.

OTHER FEATURES: Transformer shall be equipped with the additional features as follows:

1. LV grounding provision
2. Tank grounding provision
3. Loop Feed, unless noted otherwise
4. External tap changer as required for dual primary with tap voltage plainly marked.
5. Two parking stands per phase
6. One inch drain valve with sampling device, to be installed in high voltage compartment.
7. A one-inch oil filling provision
8. Liquid level indicator
9. Temperature gauge with Peak Indicator Dial
10. Nitrogen blanket over oil
11. Other accessories as may be required by NEMA and /or ANSI standards

ELECTRICAL CHARACTERISTICS:

WINDING AND CORE: Unit shall be of wound core or shell type core construction with *copper primary and aluminum strip secondary with resin, epoxy or varnish coated diamond Kraft paper (both sides) installed between layers and also used as barriers between the primary and secondary windings. Core shall be constructed of cold-rolled grain oriented silicon steel, core steel edges are to be smooth. Core laminations shall be held together with bands with the top and bottom yokes being held together by vertical tie-rods or a core clamp to make for a rigid structure to withstand rated faulted conditions.

Coil leads are to be electrically connected to the terminal board or bushings by pressure welds to provide for optimum current exchange. Both high voltage and low voltage leads are to be installed in insulating tubes or ducts.

Unit is to be equipped with cooling ducts to direct the flow of coolant through the windings.

BIL: Unit shall be rated 95 KV BIL but shall withstand a 110 KV impulse test.

FUSING: A hook stick operable bayonet-type expulsion fuse (with label installed stating: "Vent transformer prior to removing fuse"), with drip shield, which is an oil-immersed drawout expulsion fuse designed to protect the transformer from excessive overloads and secondary faults, in conjunction with an under-oil back-up current-limiting fuse to provide transformer protection against internal faults. The two fuses must be properly coordinated so that operation of the back-up current-limiting fuse will occur only as a result of transformer failure.

BUSHING ARRANGEMENTS DIMENSIONS: Pad mounts shall be of ANSI style "one" arrangement and the minimum dimensions as specified in ANSI shall apply.

Drawings for approval by Plant Board Engineering shall be submitted along with the bid and will be returned to the successful bidder with noted changes and/or approval.

Bushing and Terminal arrangements shall be as specified in ANSI C57.12.26-1987, Figure 6A for loop-feed and with staggered low voltage terminals as specified in Figure 8A.

PRIMARY TAPS: Transformer shall be equipped with 2 1/2 % taps, two above and two below the reference voltage.

TRANSFORMER SWITCH: Provide an internal oil-immersed, gang-operated radial feed switch. The switch must be capable of switching transformer full load current. The switch handle shall be located in the primary compartment and must be hot stick operable.

*NOTE: If manufacturer elects to use different winding materials than specified, it must be noted in the bid exceptions. Otherwise it will be assumed that the winding materials are as specified.

VII. BID PRICING FORM

PAD MOUNT TRANSFORMERS

ITEM #	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	2	2000 KVA PAD MOUNT 3PH, 13200 DELTA X 480/277 WYE NO LOAD _____ LOAD LOSS _____ Efficiency@ 50 % Load _____ MANUFACTURER _____		
		GRAND TOTAL		

VIII. SIGNATURE PAGE

PAD MOUNT TRANSFORMERS

We submit the prices on page 13 and agree to make delivery within _____ days after receipt of order.

This offer shall be valid for 90 calendar days from the date this bid is opened.

GRAND TOTAL WRITTEN IN WORDS: _____

SIGNED BY: _____

PRINTED NAME: _____

EMAIL: _____

FIRM: _____

ADDRESS: _____

TELEPHONE NUMBER: () _____

E-MAIL ADDRESS: _____

FAX NUMBER: () _____

DATE:

IX. EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCE CERTIFICATE

A. Has your company filed the required Employer Information Report, EEO-1 (Standard Form 100) with the Secretary of Labor's Joint Reporting Committee for the prior period ending March 31?

YES

NO

If your answer to Question A above is "NO", check the following appropriate reasons for not filing:

1. Employ less than one hundred people company-wide.
2. Have specific exemption from Secretary of Labor as provided in Section 20 of Executive Order 11246, as amended.

Within Thirty (30) days after receipt of any order from the **Frankfort Electric and Water Plant Board** and prior to each March 31 thereafter, during the performance of work under said order, the undersigned firm agrees to file Standard Form 100, entitled "Equal Employment Opportunity Information Report EEO-1" in accordance with instructions contained therein, unless such firm has either filed such report within twelve months preceding the date of the award or is not otherwise required by law or regulations to file such a report.

B. In consideration of the undersigned being placed in the **Frankfort Electric and Water Plant Board's** "Supplier Document" for the year ending March 31 next, the undersigned certifies that he does not and will not maintain or provide for his employees any segregated facilities at any of his establishments and that he does not and will not permit his employees to perform their services at any location under his control where segregated facilities are maintained. The undersigned agrees that a breach of this certification is a violation of the Equal Opportunity Clause in any subcontract, contract, purchase order, or agreement that the undersigned may receive from the **Frankfort Electric and Water Plant Board**.

As used in this certification, the term "Segregated facilities" means any waiting room, work areas, rest room, and washrooms, restaurants and other eating areas, time clocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated on the basis of race, creed, color or national origin, because of habit, local custom or otherwise.

The undersigned further agrees that he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause; that he will retain such certification in his files and that he will forward the following notice to his proposed subcontractors (except when the proposed subcontractors have submitted identical certification for specific time periods).

"NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENT FOR CERTIFICATION OF NONSEGREGATED FACILITIES"

"A certification of Nonsegregated Facilities, as required by the May 9, 1967 order on Elimination of Segregated Facilities, by the Secretary of Labor (32 Fed. Reg. 7439, May 19, 1967) must be submitted prior to the award of a subcontract exceeding \$10,000 which is not exempt from the provisions of the Equal Opportunity clause. The certification for all subcontractors during a period (i.e., quarterly, semi-annually, or annually).

(Note: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.)"

C. Do you have at each of your facilities a current written Affirmative Action Compliance Program as required by Title 41 of the Code of Federal Regulations (CFR) 60-1.40; and current written Affirmative Action Programs for disabled veteran, veterans of the Vietnam Era and Handicapped workers as required by CFR 60-250.4 and CFR 60-741.4?

YES

NO

If "NO" within 120 days after receipt of any order resulting from attached quotation, the undersigned firm agrees to develop and maintain written Affirmative Action Compliance Programs as required. (Current law requires the contractor to develop a written Affirmative Action Compliance Programs in those cases where the contractor has received prime contract or subcontracts for \$50,000 or more and employs fifty (50) or more people).

CONTRACTOR (SELLER/SUPPLIER): _____

MAILING ADDRESS / PHONE: _____

Authorized Representative's
NAME (PRINT OR TYPE): _____

Authorized Representative TITLE: _____

Dated Signature of Authorized Representative: _____

If you received this as part of an Invitation to Bid please Return with your BID.

OTHERWISE

Please return to: Personnel Officer/EEO Coordinator
Frankfort Electric and Water Plant Board
P.O. BOX 308
Frankfort, KY 40602

X. “NOTICE TO PROSPECTIVE CONTRACTORS OF REQUIREMENT OF GENERAL SAFETY PROGRAM”

The Frankfort Plant Board requires that all contractors operate in compliance with standards set forth by federal, state, and local regulatory agencies, including but not limited to the Occupational Safety and Health Administration, Environmental Protection Agency and Department of Transportation. To comply with the regulations set forth by these agencies it is necessary for each contractor to operate under an established safety program pertaining to the contractor's specific line of business.

The primary goal of a safety program is to protect the health and safety of employees and the public. Our goals are also to conserve and protect property and the environment. **IT IS OUR ABSOLUTE CONVICTION THAT:**

- This is a moral responsibility of each firm and worker involved.
- Safe and healthful work is more efficient, effective and inseparable from how we perform our work.
- Accidents and injuries are unnecessary costs

We accomplish work which is free from accident and injury by providing vigorous leadership that is visible through the organization.

How well we conduct our work in a hazard-free manner, according to the direction provided, is a key factor in our performance for which we are each accountable.

There are certain basic elements that are incorporated into the safety program:

- Effective management leadership from each contractor;
- Organization of a **General Safety Program**;
- On-site supervisor with authority to carry out their responsibilities including suspension of work to correct unsafe conditions;
- Proper training and supervision; and
- Employee participation

Does your organization operate under an established safety program that is in compliance with all applicable federal, state and local regulations and does this program embody the philosophies described above?

YES

NO

CONTRACTOR (SELLER/SUPPLIER): _____

MAILING ADDRESS / PHONE: _____

Authorized Representative's
NAME (PRINT OR TYPE): _____

Authorized Representative TITLE: _____

Dated Signature of Authorized Representative:

If you received this as part of an Invitation to Bid, please return with your bid.

OTHERWISE

Please return to: Safety Officer
Frankfort Electric and Water Plant Board
PO Box 308
Frankfort, KY 40602

*Frankfort Electric and Water Plant Board
PO Box 308, Frankfort KY 40602*

XI. DRUGFREE WORKPLACE COMPLIANCE CERTIFICATE

PLEASE SIGN BELOW TO INDICATE: 1) Contractor is in compliance with any applicable local, state or federal laws concerning mandatory Drug and Alcohol Testing Programs; and 2) AS a term of any contract, the Contractor agrees to comply with any such drug and/or alcohol testing that may be required by law.

CONTRACTOR : _____
MAILING ADDRESS/PHONE: _____

Authorized Representative's
NAME (Print or Type): _____
Authorized Representative's TITLE: _____
SIGNATURE & DATE: _____

**If you received this as part of an Invitation to Bid please Return with your BID;
Otherwise, Return to: Personnel/Safety Officers, PO Box 308, Frankfort KY 40602**

**DRUGFREE WORKPLACE COMPLIANCE
CERTIFICATE**