

**PUBLIC NOTICE
INVITATION TO BID #1231**

The Springfield Electric Department will be accepting sealed bids for:

Pad-Mount Distribution Transformers

Two (2) 300 kVa 208Y/120

Two (2) 300 kVa 480Y/277

Two (2) 500 kVa 208Y/120

Three (3) 500 kVa 480Y/277

Two (2) 750 kVa 208Y/120

One (1) 1500 kVa 480Y/277

One (1) 2500 kVa 480Y/277

Two (2) 3000 kVa 480Y/277

Specifications and bid requirements may be downloaded at www.springfieldtn.gov. Call Sandy Vallejo at (931) 217-3138 with questions. Please reference **BID NUMBER #1231** on the outside of the sealed envelope. **Sealed** bids must be received in the Office of the City Recorder, 405 N. Main St., Springfield, TN 37172 by 2:00 PM local time, Tuesday, February 21st, 2023.

The City reserves the right to reject any or all bids.

Lisa H. Crockett
City Recorder

GENERAL SPECIFICATIONS

TWO (2) each – Pad mount distribution transformer, **300 kVA**, 3-phase, 60 HZ, 95 BIL, and average temperature winding rise to 65 degrees C. The transformer shall include the following:

- a. **300 kVA** rated
- b. 3-phase, 60 Hz
- c. Self-cooling, OA (Liquid filled)
- d. Primary (High Voltage) rated at 13,200Y/7,620 Volts, Wye-connected with neutral available and taps 2-2½% above and 2-2½% below.
- e. Secondary (Low Voltage) rated at **208Y/120** Volt, Wye-connected with neutral available
- f. Impedance of approximately 5%
- g. Loop feed
- h. Dead front

SPECIAL FEATURES

- a. Internal high-side fuse protection
- b. 200 Amp HV busing wells and inserts
- c. 10-hole blade (supported) LV bushings and neutral
- d. Housing with removable sill and compartment doors

SPECIAL ACCESSORIES

- a. Drain valve with sampler
- b. Diagrammatic stainless steel name plate

MISCELLANEOUS

- a. Unless specified refer to either NEMA or ANSI standards.
- b. One primer and two finish coats of paint to be applied to all exterior metal surfaces.
- c. Manufacturer recommended oil shall be shipped in the transformer and shall be included in the purchase price of the transformer.
- d. Secondary cabinet dimensions to be 30” wide x 30” deep.
- e. Primary cabinet dimensions to be 36” wide x 30” deep.
- f. Color shall be standard green
- g. Specify no-load losses, full-load losses, and impedance for all units.

TESTING

Factory tests and checks are to be performed on all materials and equipment furnished. All tests are to be given per ANSI standards, and are to include the following specified tests:

- a. Ratio
- b. Polarity
- c. Core loss
- d. Exciting Current
- e. Applied Potential and Induced Potential
- f. Impulse test
- g. Noise level – to be in accordance with NEMA standards.

III. WARRANTY

The manufacturer warrants equipment to be good material and workmanship and agrees to promptly replace any part or parts that fail due to defective material and workmanship for minimum period of 12 months from the date unit is placed in service by the City of Springfield. Structural components shall have no less than a five (5) year warranty from the date unit is placed in service by the City of Springfield. Replacement shall be free of charge excluding any deductibles standard to such warranties. Manufacturer's Warranty and any extended warranty options on all equipment shall be submitted with bid.

GENERAL SPECIFICATIONS:

TWO (2) each – Pad mount distribution transformer, **300 kVA**, 3-phase, 60 Hz, 90 BIL and average temperature winding rise to 65 degrees C. The transformer shall include the following:

- a. **300 kVA** rated
- b. 3 phase, 60 Hz
- c. Self-cooling, OA (liquid filled)
- d. Primary (high voltage) rated at 7620/13200Y, Wye-connected with neutral available and (2) 2 ½% above and (2) 2 ½% below taps
- e. Secondary (low voltage) rated at **480Y/277**, Wye-connected with neutral available
- f. Impedance of approximately 5%
- g. Radial feed

SPECIAL FEATURES

- a. Internal high-side fuse protection
- b. 200-amp HV bushing wells and inserts
- c. 10-hole blade (supported) LV bushings and neutral
- d. Housing with removable sill and compartment doors for unobstructed access to the front panel of the transformer. Cabinet hood must be able to be raised and locked in a position greater than 90 degrees and must be removable with simple hand tools.
- e. Provisions for padlocking compartment doors

SPECIAL ACCESSORIES

- a. Drain valve with sampler
- b. Diagrammatic stainless-steel name plate
- c. 200-amp HV bushing inserts (furnished and installed by manufacturer)

MISCELLANEOUS

- a. Unless specified refer to either NEMA or ANSI Standards.
- b. One primer and two finish coats of paint to be applied to all exterior metal surfaces.
- c. Manufacturer recommended oil shall be shipped in the transformer and shall be included in the purchase price of the transformer.
- d. Minimum secondary cabinet dimensions to be 35" wide x 30" deep.
- e. Specify no load and full load losses
- f. Specify impedance

TESTING

Factory tests and checks are to be performed on all materials and equipment furnished. All tests are to be given per ANSI standards and are to include the following specified tests:

- a. Ratio
- b. Polarity
- c. Core loss
- d. Exciting Current
- e. Applied Potential and Induced Potential
- f. Impulse test

WARRANTY

Manufacturer's Warranty to extend a minimum of twelve (12) months from the date the unit is energized.

OPTIONAL REQUIREMENTS

Where a choice of materials is permitted herein, the manufacturer will be given the right to exercise the option unless stated specifically otherwise.

ANY EXCEPTIONS OR SUBSTITUTIONS FROM THESE SPECIFICATIONS ARE TO BE NOTED AND EXPLAINED WITH ALL DOCUMENTATION SUPPLIED. DIRECT ALL QUESTIONS AND INQUIRIES CONCERNING THESE SPECIFICATIONS TO:

Sandy Vallejo at sandra.vallejo@springfieldtn.gov

931-217-3138 cell

Springfield Electric Department

GENERAL SPECIFICATIONS

TWO (2) each – Pad mount distribution transformer, **500 kVA**, 3-phase, 60 HZ, 95 BIL, and average temperature winding rise to 65 degrees C. The transformer shall include the following:

- a. **500 kVA** rated
- b. 3-phase, 60 Hz
- c. Self-cooling, OA (Liquid filled)
- d. Primary (High Voltage) rated at 13,200Y/7,620 Volts, Wye-connected with neutral available and taps 2-2½% above and 2-2½% below.
- e. Secondary (Low Voltage) rated at **208Y/120** Volt, Wye-connected with neutral available
- f. Impedance of approximately 5%
- g. Loop feed
- h. Dead front

SPECIAL FEATURES

- a. Internal high-side fuse protection
- b. 200 Amp HV busing wells and inserts
- c. 10-hole blade (supported) LV bushings and neutral
- d. Housing with removable sill and compartment doors

SPECIAL ACCESSORIES

- a. Drain valve with sampler
- b. Diagrammatic stainless steel name plate

MISCELLANEOUS

- a. Unless specified refer to either NEMA or ANSI standards.
- b. One primer and two finish coats of paint to be applied to all exterior metal surfaces.
- c. Manufacturer recommended oil shall be shipped in the transformer and shall be included in the purchase price of the transformer.
- d. Secondary cabinet dimensions to be 30” wide x 30” deep.
- e. Primary cabinet dimensions to be 36” wide x 30” deep.
- f. Color shall be standard green
- g. Specify no-load losses, full-load losses, and impedance for all units.

TESTING

Factory tests and checks are to be performed on all materials and equipment furnished. All tests are to be given per ANSI standards, and are to include the following specified tests:

- a. Ratio
- b. Polarity
- c. Core loss
- d. Exciting Current
- e. Applied Potential and Induced Potential
- f. Impulse test
- g. Noise level – to be in accordance with NEMA standards.

III. WARRANTY

The manufacturer warrants equipment to be good material and workmanship and agrees to promptly replace any part or parts that fail due to defective material and workmanship for minimum period of 12 months from the date unit is placed in service by the City of Springfield. Structural components shall have no less than a five (5) year warranty from the date unit is placed in service by the City of Springfield. Replacement shall be free of charge excluding any deductibles standard to such warranties. Manufacturer's Warranty and any extended warranty options on all equipment shall be submitted with bid.

Sandy Vallejo at sandra.vallejo@springfieldtn.gov

931-217-3138 cell

Springfield Electric Department

GENERAL SPECIFICATIONS

THREE (3) each – Pad mount distribution transformer, **500 kVA**, 3-phase, 60 HZ, 95 BIL, and average temperature winding rise to 65 degrees C. The transformer shall include the following:

- a. **500 kVA** rated
- b. 3-phase, 60 Hz
- c. Self-cooling, OA (Liquid filled)
- d. Primary (High Voltage) rated at 13,200Y/7,620 Volts, Wye-connected with neutral available and taps 2-2½% above and 2-2½% below.
- e. Secondary (Low Voltage) rated at **480Y/277** Volt, Wye-connected with neutral available
- f. Impedance of approximately 5%
- g. Loop feed
- h. Dead front

SPECIAL FEATURES

- a. Internal high-side fuse protection
- b. 200 Amp HV busing wells and inserts
- c. 10-hole blade (supported) LV bushings and neutral
- d. Housing with removable sill and compartment doors

SPECIAL ACCESSORIES

- a. Drain valve with sampler
- b. Diagrammatic stainless steel name plate

MISCELLANEOUS

- a. Unless specified refer to either NEMA or ANSI standards.
- b. One primer and two finish coats of paint to be applied to all exterior metal surfaces.
- c. Manufacturer recommended oil shall be shipped in the transformer and shall be included in the purchase price of the transformer.
- d. Secondary cabinet dimensions to be 30” wide x 30” deep.
- e. Primary cabinet dimensions to be 36” wide x 30” deep.
- f. Color shall be standard green
- g. Specify no-load losses, full-load losses, and impedance for all units.

TESTING

Factory tests and checks are to be performed on all materials and equipment furnished. All tests are to be given per ANSI standards, and are to include the following specified tests:

- a. Ratio
- b. Polarity
- c. Core loss
- d. Exciting Current
- e. Applied Potential and Induced Potential
- f. Impulse test
- g. Noise level – to be in accordance with NEMA standards.

III. WARRANTY

The manufacturer warrants equipment to be good material and workmanship and agrees to promptly replace any part or parts that fail due to defective material and workmanship for minimum period of 12 months from the date unit is placed in service by the City of Springfield. Structural components shall have no less than a five (5) year warranty from the date unit is placed in service by the City of Springfield. Replacement shall be free of charge excluding any deductibles standard to such warranties. Manufacturer's Warranty and any extended warranty options on all equipment shall be submitted with bid.

Sandy Vallejo at sandra.vallejo@springfieldtn.gov

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Springfield Electric Department

GENERAL SPECIFICATIONS:

TWO (2) each – Pad mount distribution transformer, **750 kVA**, 3-phase, 60 Hz, 90 BIL and average temperature winding rise to 65 degrees C. The transformer shall include the following:

- a. **750 kVA** rated
- b. 3 phase, 60 Hz
- c. Self-cooling, OA (liquid filled)
- d. Primary (high voltage) rated at 7620/13200Y, Wye-connected with neutral available and (2) 2 ½% above and (2) 2 ½% below taps
- e. Secondary (low voltage) rated at **208Y/120**, Wye-connected with neutral available
- f. Impedance of approximately 5%
- g. Radial feed

SPECIAL FEATURES

- a. Internal high-side fuse protection
- b. 200-amp HV bushing wells and inserts
- c. 10-hole blade (supported) LV bushings and neutral
- d. Housing with removable sill and compartment doors for unobstructed access to the front panel of the transformer. Cabinet hood must be able to be raised and locked in a position greater than 90 degrees and must be removable with simple hand tools.
- e. Provisions for padlocking compartment doors

SPECIAL ACCESSORIES

- a. Drain valve with sampler
- b. Diagrammatic stainless-steel name plate
- c. 200-amp HV bushing inserts (furnished and installed by manufacturer)

MISCELLANEOUS

- a. Unless specified refer to either NEMA or ANSI Standards.
- b. One primer and two finish coats of paint to be applied to all exterior metal surfaces.
- c. Manufacturer recommended oil shall be shipped in the transformer and shall be included in the purchase price of the transformer.
- d. Minimum secondary cabinet dimensions to be 35" wide x 30" deep.
- e. Specify no load and full load losses
- f. Specify impedance

TESTING

Factory tests and checks are to be performed on all materials and equipment furnished. All tests are to be given per ANSI standards and are to include the following specified tests:

- a. Ratio
- b. Polarity
- c. Core loss
- d. Exciting Current
- e. Applied Potential and Induced Potential
- f. Impulse test

WARRANTY

Manufacturer's Warranty to extend a minimum of twelve (12) months from the date the unit is energized.

OPTIONAL REQUIREMENTS

Where a choice of materials is permitted herein, the manufacturer will be given the right to exercise the option unless stated specifically otherwise.

ANY EXCEPTIONS OR SUBSTITUTIONS FROM THESE SPECIFICATIONS ARE TO BE NOTED AND EXPLAINED WITH ALL DOCUMENTATION SUPPLIED. DIRECT ALL QUESTIONS AND INQUIRIES CONCERNING THESE SPECIFICATIONS TO:

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931-217-3138 cell

Springfield Electric Department

GENERAL SPECIFICATIONS:

ONE (1) each – Pad mount distribution transformer, **1500 kVA**, 3-phase, 60 Hz, 90 BIL and average temperature winding rise to 65 degrees C. The transformer shall include the following:

- a. **1500 kVA** rated
- b. 3 phase, 60 Hz
- c. Self-cooling, OA (liquid filled)
- d. Primary (high voltage) rated at 7620/13200Y, Wye-connected with neutral available and (2) 2 ½% above and (2) 2 ½% below taps
- e. Secondary (low voltage) rated at **480Y/277**, Wye-connected with neutral available
- f. Impedance of approximately 5%
- g. Radial feed

SPECIAL FEATURES

- a. Internal high-side fuse protection
- b. 200-amp HV bushing wells and inserts
- c. 10-hole blade (supported) LV bushings and neutral
- d. Housing with removable sill and compartment doors for unobstructed access to the front panel of the transformer. Cabinet hood must be able to be raised and locked in a position greater than 90 degrees and must be removable with simple hand tools.
- e. Provisions for padlocking compartment doors

SPECIAL ACCESSORIES

- a. Drain valve with sampler
- b. Diagrammatic stainless-steel name plate
- c. 200-amp HV bushing inserts (furnished and installed by manufacturer)

MISCELLANEOUS

- a. Unless specified refer to either NEMA or ANSI Standards.
- b. One primer and two finish coats of paint to be applied to all exterior metal surfaces.
- c. Manufacturer recommended oil shall be shipped in the transformer and shall be included in the purchase price of the transformer.
- d. Minimum secondary cabinet dimensions to be 35" wide x 30" deep.
- e. Specify no load and full load losses
- f. Specify impedance

TESTING

Factory tests and checks are to be performed on all materials and equipment furnished. All tests are to be given per ANSI standards and are to include the following specified tests:

- a. Ratio
- b. Polarity
- c. Core loss
- d. Exciting Current
- e. Applied Potential and Induced Potential
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WARRANTY

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Sandy Vallejo at sandra.vallejo@springfieldtn.gov
931-217-3138 cell
Springfield Electric Department

GENERAL SPECIFICATIONS:

ONE (1) each – Pad mount distribution transformer, **2500 kVA**, 3-phase, 60 Hz, 90 BIL and average temperature winding rise to 65 degrees C. The transformer shall include the following:

- a. **2500 kVA** rated
- b. 3 phase, 60 Hz
- c. Self-cooling, OA (liquid filled)
- d. Primary (high voltage) rated at 7620/13200Y, Wye-connected with neutral available and (2) 2 ½% above and (2) 2 ½% below taps
- e. Secondary (low voltage) rated at **480Y/277**, Wye-connected with neutral available
- f. Impedance of approximately 5%
- g. Radial feed

SPECIAL FEATURES

- a. Internal high-side fuse protection
- b. 200-amp HV bushing wells and inserts
- c. 10-hole blade (supported) LV bushings and neutral
- d. Housing with removable sill and compartment doors for unobstructed access to the front panel of the transformer. Cabinet hood must be able to be raised and locked in a position greater than 90 degrees and must be removable with simple hand tools.
- e. Provisions for padlocking compartment doors

SPECIAL ACCESSORIES

- a. Drain valve with sampler
- b. Diagrammatic stainless-steel name plate
- c. 200-amp HV bushing inserts (furnished and installed by manufacturer)

MISCELLANEOUS

- a. Unless specified refer to either NEMA or ANSI Standards.
- b. One primer and two finish coats of paint to be applied to all exterior metal surfaces.
- c. Manufacturer recommended oil shall be shipped in the transformer and shall be included in the purchase price of the transformer.
- d. Minimum secondary cabinet dimensions to be 35" wide x 30" deep.
- e. Specify no load and full load losses
- f. Specify impedance

TESTING

Factory tests and checks are to be performed on all materials and equipment furnished. All tests are to be given per ANSI standards and are to include the following specified tests:

- a. Ratio
- b. Polarity
- c. Core loss
- d. Exciting Current
- e. Applied Potential and Induced Potential
- f. Impulse test

WARRANTY

Manufacturer's Warranty to extend a minimum of twelve (12) months from the date the unit is energized.

OPTIONAL REQUIREMENTS

Where a choice of materials is permitted herein, the manufacturer will be given the right to exercise the option unless stated specifically otherwise.

ANY EXCEPTIONS OR SUBSTITUTIONS FROM THESE SPECIFICATIONS ARE TO BE NOTED AND EXPLAINED WITH ALL DOCUMENTATION SUPPLIED. DIRECT ALL QUESTIONS AND INQUIRIES CONCERNING THESE SPECIFICATIONS TO:

Sandy Vallejo at sandra.vallejo@springfieldtn.gov
931-217-3138 cell
Springfield Electric Department

GENERAL SPECIFICATIONS:

TWO (2) each – Pad mount distribution transformer, **3000 kVA**, 3-phase, 60 Hz, 90 BIL and average temperature winding rise to 65 degrees C. The transformer shall include the following:

- a. **3000kVA** rated
- b. 3 phase, 60 Hz
- c. Self-cooling, OA (liquid filled)
- d. Primary (high voltage) rated at 7620/13200Y, Wye-connected with neutral available and (2) 2 ½% above and (2) 2 ½% below taps
- e. Secondary (low voltage) rated at **480Y/277**, Wye-connected with neutral available
- f. Impedance of approximately 5%
- g. Radial feed

SPECIAL FEATURES

- a. Internal high-side fuse protection
- b. 200-amp HV bushing wells and inserts
- c. 10-hole blade (supported) LV bushings and neutral
- d. Housing with removable sill and compartment doors for unobstructed access to the front panel of the transformer. Cabinet hood must be able to be raised and locked in a position greater than 90 degrees and must be removable with simple hand tools.
- e. Provisions for padlocking compartment doors

SPECIAL ACCESSORIES

- a. Drain valve with sampler
- b. Diagrammatic stainless-steel name plate
- c. 200-amp HV bushing inserts (furnished and installed by manufacturer)

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- c. Manufacturer recommended oil shall be shipped in the transformer and shall be included in the purchase price of the transformer.
- d. Minimum secondary cabinet dimensions to be 35" wide x 30" deep.
- e. Specify no load and full load losses
- f. Specify impedance

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Factory tests and checks are to be performed on all materials and equipment furnished. All tests are to be given per ANSI standards and are to include the following specified tests:

- a. Ratio
- b. Polarity
- c. Core loss
- d. Exciting Current
- e. Applied Potential and Induced Potential
- f. Impulse test

WARRANTY

Manufacturer's Warranty to extend a minimum of twelve (12) months from the date the unit is energized.

OPTIONAL REQUIREMENTS

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ANY EXCEPTIONS OR SUBSTITUTIONS FROM THESE SPECIFICATIONS ARE TO BE NOTED AND EXPLAINED WITH ALL DOCUMENTATION SUPPLIED. DIRECT ALL QUESTIONS AND INQUIRIES CONCERNING THESE SPECIFICATIONS TO:

Sandy Vallejo at sandra.vallejo@springfieldtn.gov
931-217-3138 cell
Springfield Electric Department

BID INFORMATION FORM FOR:

Pad Mount Distribution Transformers

Bid #1231 - Opening Tuesday, February 21, 2023 at 2:00PM CST

Please fill out this form and submit with any other bid information you wish to include.

COMPANY NAME	
QUANTITY	
PRICE PER ITEM	
TOTAL PRICE	
DELIVERY	
OTHER	

The City of Springfield reserves the right to reject any and all bids.

IRAN DIVESTMENT ACT NOTICE

Tenn. Code Ann. § 12-12-106 requires the chief procurement officer to publish, using credible information freely available to the public, a list of persons it determines engage in investment activities in Iran, as described in § 12-12-105.

For these purposes, the State intends to use the attached list of “Entities determined to be non-responsive bidders/offerers pursuant to the New York State Iran Divestment Act of 2012.”

While inclusion on this list would make a person ineligible to contract with the state of Tennessee, if a person ceases its engagement in investment activities in Iran, it may be removed from the list.

If you feel as though you have been erroneously included on this list please contact the Central Procurement Office at CPO.Website@tn.gov.

List Date: October 14, 2020

Source: <https://www.ogs.ny.gov/iran-divestment-act-2012>

1. Ak Makina, Ltd.
2. Amona
3. Bank Markazi Iran (Central Bank of Iran)
4. Bank Mellat
5. Bank Melli Iran
6. Bank Saderat Iran
7. Bank Sepah
8. Bank Tejarat
9. China Precision Machinery Import- Export Corporation (CPMIEC)
10. ChinaOil (China National United Oil Corporation)
11. China National Offshore Oil Corporation (CNOOC)
12. China National Petroleum Corporation (CNPC)
13. Indian Oil Corporation
14. Kingdream PLC
15. Naftiran Intertrade Co. (NICO)
16. National Iranian Tanker Co. (NITC)
17. Oil and Natural Gas Corporation (ONGC)
18. Oil India, Ltd.
19. Persia International Bank
20. Petroleos de Venezuela (PDVSA Petróleo, SA)
21. PetroChina Co., Ltd.
22. Petronet LNG, Ltd.
23. Sameh Afzar Tajak Co. (SATCO)
24. Shandong FIN CNC Machine Co., Ltd.
25. Sinohydro Co., Ltd.
26. Sinopec Corp. (China Petroleum & Chemical Corporation)
27. SKS Ventures
28. SK Energy Co., Ltd.
29. Som Petrol AS
30. Unipet (China International United Petroleum & Chemicals Co., Ltd.)
31. Zhuhai Zhenrong Co.

IRAN DIVESTMENT ACT

“By the submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not a person included within the list created pursuant to § 12-12-106.”

Signature: _____

Date: _____

Title: _____