

NOTICE TO BIDDERS

Sealed Bids will be received by the Secretary of the Municipal Utilities Board at the Watertown Municipal Utilities Office 901 Fourth Avenue SW Watertown SD 57201 up to 1:30 PM Thursday, September 23, 2021.

- | | | | |
|-----------------|-----|-----------|--|
| Item 1: | Qty | <u>6</u> | 15 KVA single phase padmounted transformers meeting attached specifications (12470 Grd Y/7200 - 240/120 volts). |
| Item 2: | Qty | <u>30</u> | 25 KVA single phase padmounted transformers meeting attached specifications (12470 Grd Y/7200 - 240/120 volts). |
| Item 3: | Qty | <u>50</u> | 50 KVA single phase padmounted transformer meeting attached specifications (12470 Grd Y/7200 - 240/120 volts). |
| Item 4: | Qty | <u>4</u> | 45 KVA three phase padmounted transformers meeting attached specifications (12470 Grd Y/7200 - 208/120 volts). |
| Item 5: | Qty | <u>4</u> | 75 KVA Three phase padmounted transformers meeting attached specifications (12470 Grd Y/7200– 208/120 volts). |
| Item 6: | Qty | <u>5</u> | 300 KVA Three phase padmounted transformers meeting attached specifications (12470 Grd Y/7200 - 208/120 volts). |
| Item 7: | Qty | <u>2</u> | 300 KVA Three phase padmounted transformers meeting attached specifications (12470 Grd Y/7200 - 480/277 volts). |
| Item 8: | Qty | <u>2</u> | 500 KVA Three phase padmounted transformers meeting attached specifications (12470 Grd Y/7200 – 480/277 volts). |
| Item 9: | Qty | <u>1</u> | 150 KVA Three phase padmounted transformers meeting attached specifications (12470 Delta – 240 Delta/120 volts). |
| Item 10: | Qty | <u>3</u> | 150 KVA Three phase padmounted transformers meeting attached specifications (12470 Grd Y/ 7200 – 208/120 volts). |
| Item 11: | Qty | <u>2</u> | 500 KVA Three phase padmounted transformers meeting attached specifications (12470 Grd Y/7200 – 208/120 volts). |
| Item 12: | Qty | <u>2</u> | 750 KVA Three phase padmounted transformers meeting attached specifications (12470 Grd Y/7200 – 480/277 volts). |

Item 13: Qty 2 750 KVA Three phase padmounted transformers meeting attached specifications (12470 Grd Y/7200 – 208/120 volts).

Item 14: Qty 1 45 KVA three phase padmounted transformers meeting attached specifications (12470 Grd Y/7200 - 480/277 volts).

Item 15: Qty 1 1000 KVA Three phase padmounted transformers meeting attached specifications (12470 Grd Y/7200 – 208/120 volts).

INSTRUCTIONS TO BIDDERS

ALL BIDS ARE TO BE SUBMITTED ON ATTACHED PROPOSAL FORM, and any supporting data attached thereto

Specify Delivery Date.

Each bid shall be accompanied by bid deposit as a guaranty that such bidder will enter into a contract with said Municipal Utilities Board in case such bidder be awarded the contract. The bid deposit shall be in the form of a certified check, cashier's check or bank draft, for **FIVE (5%)** of the amount of the bid OR a bid bond for **TEN PERCENT (10%)** of the amount of the bid.

The check or bank draft should be made payable to Watertown Municipal Utilities. The bond should be issued by a Surety authorized to do business in the State of South Dakota, such bond to be made payable to Watertown Municipal Utilities. (CHECKS OR BONDS NOT COMPLYING WITH THESE PROVISIONS WILL DISQUALIFY BID.)

The right is reserved to reject any and all bids or any part of any bid. No bidder may withdraw their bid within thirty (30) days after the actual date of opening.

The Watertown Municipal Utilities does not discriminate in employment opportunities or provision of services basis of race, color, religion, sex, national origin, age, disability, or any other characteristic protected by law.

Bidder shall place their bid and check or bid bond in an envelope, securely sealed, and marked **BID FOR TRANSFORMERS FOR THE ELECTRIC DEPARTMENT** and have delivered to SECRETARY MUNICIPAL UTILITIES BOARD 901 Fourth Avenue SW Watertown, SD 57201 before Thursday, September 23, 2021 at 1:30 PM.

BID SHEET

Bids must be submitted on this sheet. Any other information may be attached:

Item 1: (6) – 15 KVA Single Phase
(12470 Grd Y/7200 – 240/120)

Delivery Date: _____
Manufacturer: _____
No Load Losses: _____
Load Losses: _____

Price each _____
Total price for Item 1: _____

Item 2: (30) - 25 KVA Single Phase
(12470 Grd Y/7200 – 240/120)

Delivery Date: _____
Manufacturer: _____
No Load Losses: _____
Load Losses: _____

Price each _____
Total price for Item 2: _____

Item 3: (50) - 50 KVA Single Phase
(12470 Grd Y/7200 – 240/120)

Delivery Date: _____
Manufacturer: _____
No Load Losses: _____
Load Losses: _____

Price each _____
Total price for Item 3: _____

Item 4: (4) - 45 KVA Single Phase
(12470 Grd Y/7200 – 208/120)

Delivery Date: _____
Manufacturer: _____
No Load Losses: _____
Load Losses: _____

Price each _____
Total price for Item 4: _____

Item 5: (4) – 75 KVA Three Phase
(12470 Grd Y/7200 – 208/120)

Delivery Date: _____
Manufacturer: _____
No Load Losses: _____
Load Losses: _____

Price Each _____
Total price for Item 5. _____

Item 6: (5) – 300 KVA Three Phase
(12470 Grd Y/7200 – 208/120)
Delivery Date: _____
Manufacturer: _____
No Load Losses: _____
Load Losses: _____

Price each _____
Total price for Item 6: _____

Item 7: (2)-300 KVA Three Phase
(12470 Grd Y/7200 – 480/277)
Delivery Date: _____
Manufacturer: _____
No Load Losses: _____
Load Losses: _____

Price each _____
Total price for item 7: _____

Item 8: (2)-500 KVA Three Phase
(12470 Grd Y/7200 – 480/277)
Delivery Date: _____
Manufacturer: _____
No Load Losses: _____
Load Losses: _____

Price each _____
Total price for Item 8: _____

Item 9: (1)-150 KVA Three Phase
(12470 Delta –240 delta/120)
Delivery Date: _____
Manufacturer: _____
No Load Losses: _____
Load Losses: _____

Price each _____
Total price for Item 9: _____

Item 10: (3)-150 KVA Three Phase
(12470 Grd Y/7200 208/120)
Delivery Date: _____
Manufacturer: _____
No Load Losses: _____
Load Losses: _____

Price each _____
Total price for Item 10: _____

Item 11: (2)-500 KVA Three Phase
(12470 Grd Y/7200 –208/120)
Delivery Date: _____
Manufacturer: _____
No Load Losses: _____
Load Losses: _____

Price each _____
Total price for Item 11: _____

Item 12: (2)-750 KVA Three Phase
 (12470 Grd Y/7200-480/277)

Delivery Date: _____
 Manufacturer: _____
 No Load Losses: _____
 Load Losses: _____

Price each _____
 Total price for item 12: _____

Item 13: (2)-750 KVA Three Phase
 (12470 Grd Y/7200-208/120)

Delivery Date: _____
 Manufacturer: _____
 No Load Losses: _____
 Load Losses: _____

Price each _____
 Total price for item 13: _____

Item 14: (1)-45 KVA Three Phase
 (12470 Grd Y/7200-480/277)

Delivery Date: _____
 Manufacturer: _____
 No Load Losses: _____
 Load Losses: _____

Price each _____
 Total price for item 14: _____

Item 15: (1)-1000 KVA Three Phase
 (12470 Grd Y/7200-208/120)

Delivery Date: _____
 Manufacturer: _____
 No Load Losses: _____
 Load Losses: _____

Price each _____
 Total price for item 15: _____

The specifications are hereby made a part of this proposal

Only firm bids will be accepted

Bids will be awarded on individual items

Transformers awarded will be based on total evaluated cost of the transformer. With the value of the no load losses at \$5.19/watt and load losses at \$1.74/watt.

BID ITEMS WITH LONGER DELIVERY DATE OF 36 WEEKS FROM RECEIPT OF ORDER MAY BE SUBJECT TO BEING REJECTED

TRANSFORMER PRICE MUST INCLUDE FREIGHT FROM MANUFACTURE TO WATERTOWN, SD (FOB DESTINATION)

ACCEPTABLE MANUFACTURERS ARE ABB, CENTRAL MOLONEY, ERMCO, GE, PROLEC, COOPER, HOWARD INDUSTRIES AND WEG

MANUFACTURER _____

DATE OF DELIVERY _____

There is submitted herewith (certified-cashier's) Check drawn on _____ Bank of _____ as bid security. In lieu of check described above, we are submitting a Bid Bond issued by _____ a Surety authorized to do business in the State of South Dakota, for 10% of the amount of the total bid.

Dated September _____ 2021

Signature

Date

SPECIFICATIONS FOR SINGLE-PHASE TRANSFORMER

Single phase padmounted transformers shall meet or exceed the following specifications:

Primary voltage: 12470 grd y/7200 loopfeed primary
Secondary voltage: 240/120 three bushing secondary

Transformers shall meet or exceed all applicable ANSI and IEEE standards – latest edition. Loopfeed with 2 bushings wells. Bushing wells shall have a removable copper stud such as the Cooper Power Systems bushing well or approved equal. Bushing wells shall be externally clamped. Loadbreak bushing inserts shall be included with transformer that have a high visibility latch indicator ring that becomes covered with proper elbow installation.

Secondary bushings shall be externally clamped epoxy bushings with a threaded stud.

Units shall have a pressure relief device to relieve slow pressure buildup that will automatically vent when pressure reaches 10 ± 2 psi and reclose when pressure falls to 6 psi.

Units shall have parking stands.

Units shall be low profile ANSI Type 2 design with no external cooling fin construction.

Units shall also meet NEMA, latest edition, tamper resistance requirements. Security bolt shall be penta-head.

Units shall meet 2016 DOE standards for efficiency.

Paint shall be certified to meet or exceed ANSI.

Units shall meet applicable ANSI short circuit withstand specifications.

Units shall have a “DANGER HIGH VOLTAGE” sign attached to the outside. The size of the sign shall be approximately 6” x 6”. There shall also be a non-corrosive label permanently attached on the outside of each unit. The label shall contain the following information: High Voltage, Low Voltage, Impedance, Serial Number, Year of Manufacture, weight and KVA. The size of the label shall be approximately 2” x 2”. All labels, lettering, numbers or signs must be on the front of the transformer.

A label certifying non-PCB status of transformer shall be permanently attached to the outside of each unit.

Fusing shall be one RTE Bay-O-Net dual sensing fuse coordinated with an internal RTE ELSP current limiting fuse. The Bay-O-Net shall be load break rated. The fusing arrangement shall meet IEEE Standard 386.

Prior to shipment of units, reports certifying transformers meet all specifications must be submitted to the Watertown Municipal Utilities.

SPECIFICATIONS FOR THREE-PHASE TRANSFORMER

Three phase padmounted transformers shall meet or exceed the following specifications:

Primary voltage: 12470 grd y/7200

Secondary voltage: 480Y/277 or 208Y/120

Loopfeed with 6 bushing wells. Bushing wells shall have a removable copper stud such as the Cooper Power Systems bushing well or approved equal. Bushing wells shall be externally clamped and meet all ANSI/IEEE latest edition standards. Loadbreak bushing inserts shall be included with transformer that have a high visibility latch indicator ring that becomes covered with proper elbow installation.

Secondary bushings shall be externally clamped epoxy bushings with a threaded stud with removable paddles supplied on units 500 KVA and larger. They shall meet ANSI C57.12.26 - latest edition.

Primary and Secondary bushing shall have a staggered arrangement.

Primary bushing height on units shall be a minimum of 31" on the lowest bushing.

Secondary bushing height on units shall be a minimum of 31" on the lowest bushing on units 500 KVA and smaller.

Secondary bushing height on units shall be a minimum of 46" on the lowest bushing on units 750 KVA and larger.

Spacing between secondary bushing shall be a minimum of 6" or greater than 6" if need to meet ANSI C57.12.26 - latest edition.

Units shall have a 2 position load-break switch.

Units shall have a pressure relief device to relieve slow pressure buildup that will automatically vent when pressure reaches 10 ± 2 psi and reclose when pressure falls to 6 psi.

Units shall have parking stands.

Units shall meet NEMA TR-P9-1977 and ANSI C57.12.28, latest edition, for tamper resistance. Security bolt shall be penta-head.

Units shall meet 2016 DOE standards for efficiency.

Paint shall be certified to meet or exceed ANSI C57.12.28 - latest edition.

Units shall meet ANSI C57.12.00-latest edition and ANSI C57.12.90-latest edition short circuit withstand specifications.

Units shall have 180° opening, removable doors.

Units shall have a "DANGER HIGH VOLTAGE" sign attached to the outside. The size of the sign shall be approximately 6" x 6". There shall also be a non-corrosive label permanently attached on the outside of each unit. The label shall contain the following information as a minimum: High Voltage, Low Voltage, Impedance, Serial Number, Year of Manufacture, weight, and KVA. The size of the label shall be approximately 2" x 2". All labels, lettering, numbers or signs must be on the front of the transformer.

A label certifying the non-PCB status of transformer shall be permanently attached to the outside of the unit.

Fusing shall be one RTE Bay-O-Net dual sensing fuse coordinated with an internal RTE ELSP current limiting fuse. The Bay-O-Net shall be load break rated. The fusing arrangement shall meet IEEE Standard 386.

Prior to shipment of units, reports certifying transformers meet all specifications must be submitted to the Watertown Municipal Utilities.

SPECIFICATIONS FOR THREE-PHASE TRANSFORMER

Three phase padmounted transformers shall meet or exceed the following specifications:

Primary voltage: 12470 Delta

Secondary voltage: (240 Delta/120)

Loopfeed with 6 bushing wells. Bushing wells shall have a removable copper stud such as the Cooper Power Systems bushing well or approved equal. Bushing wells shall be externally clamped and meet all ANSI/IEEE latest edition standards. Loadbreak bushing inserts shall be included with transformer that have a high visibility latch indicator ring that becomes covered with proper elbow installation.

Secondary bushings shall be externally clamped epoxy bushings with a threaded stud with removable paddles supplied on units 500 KVA and larger. They shall meet ANSI C57.12.26 - latest edition.

Primary and Secondary bushing shall have a staggered arrangement.

Primary bushing height on units shall be a minimum of 31" on the lowest bushing.

Secondary bushing height on units shall be a minimum of 31" on the lowest bushing on units 500 KVA and smaller.

Secondary bushing height on units shall be a minimum of 46" on the lowest bushing on units 750 KVA and larger.

Spacing between secondary bushing shall be a minimum of 6" or greater than 6" if need to meet ANSI C57.12.26 - latest edition.

Units shall have a 2 position load break switch

Units shall have a pressure relief device to relieve slow pressure buildup that will automatically vent when pressure reaches 10 ± 2 psi and reclose when pressure falls to 6 psi.

Units shall have parking stands.

Units shall meet NEMA TR-P9-1977 and ANSI C57.12.28, latest edition, for tamper resistance. Security bolt shall be penta-head.

Units shall meet 2016 DOE standards for efficiency.

Paint shall be certified to meet or exceed ANSI C57.12.28 - latest edition.

Units shall meet ANSI C57.12.00-latest edition and ANSI C57.12.90-latest edition short circuit withstand specifications.

Units shall have 180° opening, removable doors.

Units shall have a "DANGER HIGH VOLTAGE" sign attached to the outside. The size of the sign shall be approximately 6" x 6". There shall also be a non-corrosive label permanently attached on the outside of each unit. The label shall contain the following information as a minimum: High Voltage, Low Voltage, Impedance, Serial Number, Year of Manufacture, weight, and KVA. The size of the label shall be approximately 2" x 2". All labels, lettering, numbers or signs must be on the front of the transformer.

A label certifying the non-PCB status of transformer shall be permanently attached to the outside of the unit.

Fusing shall be one RTE Bay-O-Net dual sensing fuse coordinated with an internal RTE ELSF current limiting fuse. The Bay-O-Net shall be load break rated. The fusing arrangement shall meet IEEE Standard 386.

Prior to shipment of units, reports certifying transformers meet all specifications must be submitted to the Watertown Municipal Utilities