

## **Specification IFB 23IFB8765**

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### **Project Description:**

The vendor will be required to provide a 1000KVA – 12,470V Primary – 480Y/277V Secondary Transformer and associated fiberglass base per the specification below

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### **Specification:**

The Vendor shall be responsible provide a transformer meeting the following requirements:

1. The Vendor shall be allowed to provide a refurbished and/or new transformer
2. Transformer Requirements – Basis of Design
  - a. Padmount Transformer
  - b. 12,470V Delta Primary – 3 Phase – 480Y/277 Secondary – 1000KVA
  - c. Accessories
    - i. Primary Bushings, Dead Front, Loop Feed
    - ii. 8.3/14.4 KV Wells with Inserts
    - iii. Bayonet Fusing
    - iv. 3 – 2 position LBOR position switch
    - v. Secondary bushings / stud connections with spades
    - vi. Oil Level Gauge
    - vii. Pressure / Vacuum Gauge
    - viii. Pressure Relief
    - ix. Pentahead entry system
    - x. Mineral Oil (PCB Free) / Non-PCB Label
    - xi. Drain valve w/ sampler
    - xii. Manufacturers standard green paint
  - d. Electrical Testing – Manufacturer Standard
    - i. Turns Ration Test
    - ii. Polarity and Phase Relation Test
    - iii. DC HYPOT Test
    - iv. Core and Excitation Test
    - v. Load and No-Load Test
    - vi. Induced Potential Test
  - e. Test Reports
    - i. Provide test reports
    - ii. Provide nameplate data sheet
  - f. Warranty
    - i. Three (3) year warranty
3. Transformer Basement
  - a. Vendor shall be responsible to provide the associated fiberglass basement to match to the size of the transformer
  - b. Fiberglass basement shall be a minimum of 36" tall / tapered flared base

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## **Required Documentation and Warranty**

### **1. Required Documents:**

Contractor shall provide to USD Project Manager any project documents that may be applicable, including:

1. Submittals / Shop Drawings
  - a. Transformer
  - b. Fiberglass Basement
2. O&M Manuals
  - a. N/A
3. Warranty Manuals
  - a. Provide Contractor Warranty Certificate
  - b. Provide Manufacturers three (3) year warranty certificate
  - c. Provide transformer name plate diagram
  - d. Provide manufacturers test data

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## **Delivery Schedule**

The delivery of the transformer shall be scheduled between May 13, 2024 thru May 24, 2024. If the Vendor ships the equipment prior to the May 13, 2024 date, the Vendor shall be required to offload the equipment at their expense.

Vendor shall coordinate with USD Project Manager for coordination of shipment

### **Shipment shall be FOB Site**

University of South Dakota  
Facilities Management Warehouse  
228 E Highway 50  
Vermillion, SD 57069

### **USD Project Manager Contact Information:**

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