

SOUTH VALLEY WATER RECLAMATION FACILITY

REQUEST FOR QUOTATION & SPECIFICATIONS  
for  
REPLACEMENT OF MICROVERSA MVT TRIP UNITS ON  
BREAKERS IN SUBSTATION ES-2

May 2023

## REQUEST FOR QUOTATION

### RECEIPT OF QUOTATION

Quotations will be received by South Valley Water Reclamation Facility at 7495 South 1300 West, West Jordan City, Utah 84084, for the procurement of:

### REPLACEMENT OF MICROVERSA MVT TRIP UNITS ON BREAKERS IN SUBSTATION ES-2

In accordance with the Specifications prepared by:  
South Valley Water Reclamation Facility  
7495 South 1300 West  
West Jordan City, Utah 84084

QUOTATIONS WILL BE RECEIVED NOT LATER THAN 2:00 p.m. on June 12, 2023 at the South Valley Water Reclamation Facility located at 7495 South 1300 West, West Jordan City, Utah.

QUOTATIONS MAY BE DELIVERED by certified mail, hand delivered, or emailed to the South Valley Water Reclamation Facility located at 7495 South 1300 West, West Jordan City, Utah. Quotations should be sent to the attention of Taigon Worthen, P.E., email [tworthen@svwater.com](mailto:tworthen@svwater.com).

### OWNER'S RIGHTS RESERVED

South Valley Water Reclamation Facility, hereinafter called the OWNER, reserves to itself, without condition, the right to reject any or all quotations and to waive any informality or technicality in any quotation deemed in the interest of the Owner.

### SPECIFICATIONS

Breaker Trip Unit specifications can be obtained at SVWRF from May 25, 2023 through June 12, 2023 during office hours or downloaded from [www.svwater.com](http://www.svwater.com) under Engineering and then 2023 ES-2 Trip Unit Replacement.

## **INSTRUCTIONS TO VENDORS**

### **Examination of Specifications**

The submission of a Quotation will constitute an incontrovertible representation by the Vendor that he has examined the Specifications and concurs that they are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for furnishing the Equipment and Services.

### **Interpretations**

All questions about the meaning or intent of the Specifications shall be submitted to the Owner in writing at the email address noted in the Advertisement. Replies will be issued by Addenda posted to South Valley Water Reclamation Facility's website. Questions received on the day of closing for the advertisement may not be answered. Only questions answered by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

### **Substitute Equipment or Services**

The contract, if awarded, will be on the basis of supplying Equipment and Services described and specified. Specific reference to a brand, make, or manufacturer, together with a model or catalog number, in the Specifications, is to denote minimum quality standards of products required. The intent of the Specifications is to set forth and convey to Vendors, the style, type, character, and minimum quality of product required. Equivalent products will be considered by the Owner with the Owner's decisions considered final.

### **Quotation Form**

The Quotation shall be made on the Quotation forms bound herein and in the manner hereafter specified. The Quotation forms shall be completed in ink or by printer, all names must be typed or printed below the signature, and the Quotation forms shall include the name of the Vendor and the date of the submission.

### **Modification and Withdrawal of Quotations**

Quotations may be modified or withdrawn by an appropriate document duly executed and delivered to the place where Quotations are to be submitted at any time prior to the opening of Quotations.

Unauthorized conditions, limitations, or provisos attached to a Quotation will render it informal and may cause its rejection as being non-responsive. The completed Quotation forms shall be without interlineations, alterations, or erasures. Alternative Quotations may not be considered unless called for. Oral, telegraphic, or telephonic Quotations will not be considered.

## **INSTRUCTIONS TO VENDORS** (continued)

### **Basis of Purchase Award**

The Contract Award will be based on the following criteria:

- Total price.
- The ability to comply or exceed the Specifications.
- Evaluation by the Owner on the ease of operations and maintenance, service representative accessibility, financial capability of the Vendor and manufacturer, physical dimensions and gross weight of the unit, operational and maintenance costs, and overall safety features on the equipment.

At the completion of the evaluation by the Owner, the Owner may or may not award the purchase.

### **Award of Purchase**

Owner reserves the right to reject any and all Quotations, to waive any and all informalities, to negotiate purchase terms with the Successful Vendor, and may disregard all nonconforming, non-responsive or conditional Quotations. Discrepancies between words and figures will be resolved in favor of words. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.

Owner may conduct such investigations as Owner deems necessary to assist in the evaluation of any Quotation and to establish the responsibility, qualifications, and financial ability of the Vendor to furnish the Equipment and Services in accordance with the Specifications to Owner's satisfaction within the prescribed time. Owner reserves the right to reject the Quotation of any Vendor who does not pass any such evaluation to Owner's satisfaction.

The purchase, if awarded, will be in the best interest of the Owner. The successful Vendor will be notified following completion of Quotation evaluation.

### **Performance Testing**

Upon installation of the replacement trip units the Vendor shall conduct performance testing. This performance testing will be conducted by the Vendor's operators who are knowledgeable of the Equipment. Performance testing will be required to demonstrate that equipment will meet the performance criteria set forth in these specifications. The performance testing will involve field testing in the presence of Owner personnel to verify the replacement trip units operate properly.

This performance testing will be conducted at the South Valley Water Reclamation site located at 7495 South 1300 West, West Jordan City, Utah.

In the event that defects in manufacture, workmanship, or performance are determined during the testing, the Vendor will be required to correct these within 15 days of receipt of

## **INSTRUCTIONS TO VENDORS** (continued)

notice to do such by the Owner and prior to the Owner's final acceptance and subsequent payment. If the Vendor fails to correct any defects, etc. as described above within the 15 day period or refuses to correct them at all, the Owner reserves the right to refuse acceptance and terminate the purchase of the Equipment.

Vendor shall assume all risk of loss or damage to the Equipment prior to acceptance by the Owner at the point of delivery. Vendor shall purchase and maintain insurance on the Equipment during the process of fabrication and while in transit to insure against perils of fire, accident, theft, vandalism, or other perils.

### **Operator and Maintenance Manuals & Training**

The successful Vendor shall provide O&M manuals on the equipment. The Vendor shall within ten days after acceptance of Equipment by the Owner, provide training to the Owner's equipment operators and maintenance personnel.

### **Terms of Payment**

VENDOR shall submit their invoice for payment after delivery, acceptance, and training have been completed. Application for payment will be processed by the OWNER and 100% of the Quotation price shall be paid.

QUOTATION FORM

IDENTIFICATION: REPLACEMENT OF MICROVERSA MVT TRIP UNITS ON  
BREAKERS IN SUBSTATION ES-2

QUOTATION IS SUBMITTED TO:

South Valley Water Reclamation Facility  
7495 South 1300 West  
West Jordan City, Utah 84084

The undersigned Vendor agrees, if this Quotation is accepted, to accept a purchase order from OWNER in the form included in the Specifications for the Price and within the Time indicated in this Quotation and in accordance with the Specifications.

Vendor accepts all of the terms and conditions of the Request for Quotations and Specification. This Quotation will remain subject to acceptance for thirty days after the day of closing.

In submitting this Quotation, Vendor represents, as more fully set forth in the Specifications, that:

- (a) VENDOR has examined copies of all the Specifications and of the following Addenda (receipt of all which is hereby acknowledged):

Date	Number
_____	_____
_____	_____

- (b) VENDOR has familiarized itself with the nature and extent of the Specifications, Services, locality, and all local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing of the Equipment and Service
- (c) VENDOR has given OWNER written notice of all conflicts, errors or discrepancies that he/she has discovered in the Specifications and the written resolution thereof by OWNER is acceptable to VENDOR.
- (d) This Quotation is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation. VENDOR has not directly or indirectly induced or solicited any person, firm or corporation to refrain from quoting; and VENDOR has not sought by collusion to obtain for itself any advantage over any other VENDOR or over OWNER.

VENDOR will furnish the Equipment and Services for the price shown on the attached Price Schedule. Other items of work defined in the specifications, but not listed in the Price Schedule, shall be considered incidental to one or more of the items listed in the Price Schedule and shall be paid for under the item listed to which it is related. Final payment will be based on actual Equipment and Services provided for the prices proposed.

QUOTATION FORM (Continued)

The PRICE SCHEDULE includes eight (8) items:

1. TRIP UNITS:

This item will cover all costs of labor and materials to provide, install, test and provide training on eight new trip units, installed in the below identified GE WAVEPRO breakers located in ES-2.

Breaker trip units shall be delivered F.O.B. to the South Valley Water Reclamation Facility site located at 7495 South 1300 West, West Jordan City, Utah, 84084.

All licenses, fees, transportation/delivery costs, and set up costs will be included in this item including training.

PRICE SCHEDULE

GE WAVEPRO BREAKER TRIP UNITS

The OWNER, South Valley Water Reclamation Facility, is exempt from paying state and local sales tax. Supplier shall not incorporate this tax into Quotation price.

ITEM	DESCRIPTION	QTY	QUOTATION PRICE
1. 52-2-1	3200A breaker, 3200A trip unit	1	_____
2. 52-2-12	2000A breaker, 1600A trip unit	1	_____
3. 52-2-11	800A breaker, 100A trip unit	1	_____
4. 52-2-13	2000A breaker, 1600A trip unit	1	_____
5. 52-2-T	3200A breaker, 2400A trip unit	1	_____
6. 52-2-21	3200A breaker, 2400A trip unit	1	_____
7. 52-2-22	3200A breaker, 2400A trip unit	1	_____
8. 52-2-2	3200A breaker, 3200A trip unit	1	_____

PRICE SCHEDULE TOTAL PRICE \_\_\_\_\_

VENDOR offers to deliver to the South Valley Water Reclamation Facility site the following item within the following calendar days after receipt of a purchase order.

1. All GE Wavepro breaker trip units \_\_\_\_\_  
Delivery, Calendar Days

QUOTATION FORM (Continued)

Vendor Information:

The Vendor shall furnish the following information along with his Quotation. Failure to comply with this requirement will render the Quotation informal and shall cause its rejection. Additional sheets may be attached as required.

Vendor's name and address:

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Vendor's telephone number: \_\_\_\_\_

Number of years as a Vendor in furnishing electrical equipment of this type: \_\_\_\_\_

Origin of equipment: \_\_\_\_\_

Communications concerning this Quotation shall be addressed to:

South Valley Water Reclamation Facility  
7495 South 1300 West  
West Jordan City, Utah 84084

Taigon Worthen  
Facility Engineer / Assistant GM  
(801) 495-5469: Office  
Email: tworthen@svwater.com

\_\_\_\_\_  
Signature of Company Representative

SUBMITTED ON \_\_\_\_\_, 20\_\_\_\_

VENDOR \_\_\_\_\_

By \_\_\_\_\_  
Agent Title

Business Address \_\_\_\_\_

\_\_\_\_\_

Telephone Number \_\_\_\_\_ Date \_\_\_\_\_

State/County Business License No. \_\_\_\_\_



## **SPECIFICATIONS FOR GE WAVEPRO BREAKER TRIP UNITS**

### **GENERAL**

The VENDOR is required to furnish, in accordance with these Specifications the listed items in the price schedule.

The trip units shall be plug and play compatible with the existing GE Wavepro breakers in ES-2.

New trip units shall be GE Entelliguard TU Trip Units or equal. All existing functionality of the Microversa MVT trip units is to be maintained or improved upon.

Trip units shall be removable in the field and replaced by de-energizing and removing the cover of the circuit breaker.

Trip units shall include a graphical LCD. A DC battery shall provide backlight to the LCD when the current flow is less than 20% of the breaker's sensor rating.

Trip units shall be capable of interfacing via RS-485 supporting MODBUS to the existing MODBUS concentrator.

Trip units shall be provided with LCD batteries, rating plugs (sized as per the price schedule), and any and all parts required to install and operate them in the existing breakers.

Overcurrent protection functions shall meet or exceed existing performance of the Microversa MVT trip units.

### **PROGRAMMING / PARAMETER SETUP**

The Vendor shall provide technician assistance to Owner personnel during setup of overcurrent protection settings.

### **OPERATION & MAINTENANCE MANUAL**

Vendor shall supply three sets of Operation & Maintenance Manuals for equipment. Where possible, the manual shall contain operational procedures, recommended settings, preventative maintenance tasks and schedules, maintenance instructions, recommended spare parts, and vendor contact information for service and parts.

### **EXCEPTIONS**

The Vendor shall note any and all exceptions from the specifications in their quotation. Owner reserves the right to reject exceptions to the specifications if deemed not in the best interest of the Owner.

## **WARRANTEES**

The Owner shall receive and be beneficiary of all OEM warranties. The Vendor shall warranty the equipment to be free from defects in workmanship and material under normal use and service for a period of one year. The warranty period begins the date the equipment is accepted by the Owner.

## **PERFORMANCE TESTING**

Performance testing will be conducted at the South Valley Water Reclamation Facility site located at 7495 South 1300 West, West Jordan City, Utah.

## **OPERATOR AND MAINTENANCE TRAINING**

Training shall include:

- Navigation of the menu system on the trip unit
- Instruction on how to set the trip unit settings and check on them
- Instruction on how to recognize faults, review the fault log, and clear active faults when appropriate
- Instructions on how to contact the Vendor in the event of an emergency

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