

SOUTH VALLEY WATER RECLAMATION FACILITY

REQUEST FOR PROPOSALS
for
REPLACEMENT OF HVAC EQUIPMENT

July 2022

REQUEST FOR PROPOSAL

RECEIPT OF PROPOSAL

Proposals 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 HVAC EQUIPMENT

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

PROPOSALS WILL BE RECEIVED NOT LATER THAN 4:00 p.m. on August 9, 2022 at the South Valley Water Reclamation Facility located at 7495 South 1300 West, West Jordan City, Utah.

PROPOSALS 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. Proposals should be sent to the attention of Taigon Worthen, P.E., email 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 Proposals and to waive any informality or technicality in any Proposal deemed in the interest of the Owner.

SPECIFICATIONS

Proposal documents can be obtained at SVWRF from July 22, 2022 through August 9, 2022 during office hours or downloaded from www.svwater.com under Engineering and then 2022 Replacement of HVAC Equipment.

INSTRUCTIONS TO VENDORS

Examination of Specifications

The submission of a Proposal will constitute an incontrovertible representation by the Vendor that he has examined the Work and the Proposal Documents and concurs that they are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for furnishing the related Work as outlined.

Interpretations

All questions about the meaning or intent of the Proposal Documents 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 will 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 Proposal Documents, is to denote minimum size, capacity, quality, standards of products, etc. as applicable and required to provide the desired intend. The intent of the Proposal Documents is to set forth and convey to Vendors, the size, style, type, character, and minimum quality of product required. Equivalent products will be considered by the Owner with the Owner's decisions considered final.

Proposal Form

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

Modification and Withdrawal of Proposals

Proposals may be modified or withdrawn by an appropriate document duly executed and delivered to the place where Proposals are to be submitted at any time prior to the opening of Proposals.

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

INSTRUCTIONS TO VENDORS (continued)

Basis of Purchase Award

The Award will be based on the following criteria:

- The ability to comply or exceed the Proposal Documents coupled with sum of Price Schedule values.
- Evaluation by the Owner on the ease of operations and maintenance, service representative accessibility, equipment manufacturer, physical dimensions and gross weight, operational and maintenance costs, and overall 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 Proposals, to waive any and all informalities, to negotiate purchase terms with the Successful Vendor, and may disregard all nonconforming, non-responsive or conditional Proposals. 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 Proposal 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 Proposal 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 Proposal 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 technicians who are knowledgeable of the HVAC equipment. Performance testing will be required to demonstrate that equipment will meet the performance criteria established by manufacturers and set forth in these Proposal Documents. The performance testing will involve field testing in the presence of Owner personnel to verify the HVAC equipment 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 HVAC equipment.

Vendor shall assume all risk of loss or damage to the HVAC equipment prior to acceptance by the Owner at the point of delivery. Vendor shall purchase and maintain insurance on the HVAC 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 HVAC 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 Proposal price shall be paid as the Work is completed in Price Schedule.

SUMMARY OF WORK

The following summary of work has been prepared by SVWRF. Vendors are encouraged to tailor their Proposal. Vendors shall clearly state proposal details. Descriptions shall include equipment literature and dimensions where appropriate. Where a Vendor does vary from the work listed in the Price Schedule or offers substitute equipment and/or services, the Vendor should attach a verbose explanation detailing the proposed alternative.

Where execution of the Work requires roofing repairs or modifications, Vendors are encouraged to utilize the original roofing contractor to maintain existing warranties. All PVC membrane roofs were installed by Allweather Waterproofing. The EPDM membrane roof on the Thermal Drying Building was installed by Warburtons Inc. All electrical work shall be included.

1. Headworks North Grit Chamber Roof

- a. Replace motor; replace motor sheave; replace fan sheave; replace fan belt
 - i. SUF-3401 Northeast Supply Fan
 1. Manufacturer: Cel-Air, Model CAH-ODO-00, Serial 23506
 - ii. SUF-3405 Northwest Supply Fan
 1. Manufacturer: Cel-Air, Model CAH-ODO-00, Serial 23505
 - iii. SUF-3407 Southwest Supply Fan
 1. Manufacturer: Cel-Air, Model CAH-ODO-00, Serial 23507
 - iv. EXF-3402 East Exhaust Fan
 1. Manufacturer: Bayley, Model 30AX-10, Serial 5182100
 - v. EXF-3406 West Exhaust Fan
 1. Manufacturer: Bayley, Model 30AX-10, Serial 5182160
- b. Replace motor; retrofit inlet damper with greasable bearings on damper shaft
 - i. FAF-3403 North Foul Air Fan
 1. Manufacturer: Unknown, Model DHK-3650, Serial 12577-3
 - ii. FAF-3404 South Foul Air Fan
 1. Manufacturer: Unknown, Model DHK-3650, Serial 12577-2
- c. Demo and replace unit heaters in entirety with equal; motors must be Class 1 Division I/II explosion proof rated; refresh or replace glycol in heating system to re-establish corrosion inhibitors
 - i. UH-3701 Grit Chamber 2 SE Unit Heater
 - ii. UH-3702 Grit Chamber 3 SW Unit Heater
 - iii. UH-3703 Grit Chamber 3 NW Unit Heater
 - iv. UH-3704 Grit Chamber 2 NE Unit Heater
 - v. UH-3705 Grit Chamber 1 NW Unit Heater
 - vi. UH-3706 Grit Chamber 1 SW Unit Heater
 - vii. UH-3707 Grit Chamber 4 SE Unit Heater
 - viii. UH-3708 Grit Chamber 4 NE Unit Heater
 - ix. UH-3711 Wet Well Unit Heater

2. Blower Building 1

a. Option 1

- i. Abandon existing buried glycol supply and return lines to unit heaters from Grit Chambers.
- ii. Provide and install new glycol supply and return lines from Headworks North to existing unit heaters. Service existing unit heaters to establish like new operation.
 1. UH-3709
 - a. Manufacturer: Leeson, Model: A6T11EB21D, Serial: CAT111940-00
 2. UH-3710
 - a. Manufacturer: Leeson, Model: A6T11EB21D, Serial: CAT111940-00

b. Option 2

- i. Demolish and remove existing said unit heaters.
- ii. Demolish and remove existing said buried glycol supply and return lines. Plug existing tees to said lines.
- iii. Supply, install and commission new 480V, 3-phase, all electric convection air heaters including all related electrical breakers, conduit, and wires from HW-MCC-C. Heating capacity shall match that which was removed.

3. RAS 1

- a. Demo and replace unit in entirety with equal
 - i. RW-ME-2 Evaporative Cooler on roof
- b. Demo and remove existing east roof skylight. Supply and install new roof exhaust hood with electric motorized dampers controlled by startup of new evaporative cooler.
- c. Demo and remove electric actuators and wiring to two existing wall mounted exhaust dampers on north wall. Provide finished cover on interior side of wall to block off abandoned exhaust dampers. Leave exterior louvered finish as is.
- d. Demo and relocate replacement unit to the roof above electrical room. Reuse existing ground mounted condenser & compressor units. Provide new ducting for supply and return air. All new ducting must leave north wall space clear and open.
 - i. RW-F-2 Fan / A-Coil unit inside electrical room.
 1. Manufacturer: York, Model NM120C00C48AA3, Serial: N1K8153402

4. RAS 2

- a. Demo and replace unit in entirety with equal
 - i. RW-ME-105 West Evaporative Cooler on roof
 1. Manufacturer: Unknown, Model ED213C, Serial: H92002530
 - ii. RW-ME-109 Roof Mounted Air Conditioning Unit to Electrical Room.
 1. Manufacturer: Trane, Model: TCD102B400BA, Serial: G031428620

- b. Demo and replace RW-ME-104 East Evaporative Cooler on roof with a new Roof Exhaust Hood with electric motorized dampers controlled by startup of new evaporative cooler.
- c. Demo and remove electric actuators and wiring to two existing wall mounted exhaust dampers on north wall. Provide finished cover on interior side of wall to block off abandoned exhaust dampers. Leave exterior louvered finish as is.

5. UV Building

- a. Demo and replace unit in entirety with equal. This equipment coordinates staging to meet the demand heat load of specific building rooms.
 - i. 3H-RTU-1 North Air Conditioner on roof
 - ii. 3H-RTU-2 South Air Conditioner on roof
- b. Demo and replace water cooling coils with stainless steel coils of equal cooling capacity.
 - i. 3H-RTMU-1 North Evaporative Cooler on roof
 - ii. 3H-RTMU-2 South Evaporative Cooler on roof

6. Clarifier Chemical Building

- a. Measure existing air flow. Replace evaporative media, balance fan impeller. Inspect and verify controls, operational staging, and overall function. Recommend improvements as appropriate.
 - i. 5H-EC-1 West Evaporative Cooler
 - 1. Manufacturer: Cel-Air, Model: CAH-ODO-8, Serial: 23512
 - ii. 5H-EC-2 East Evaporative Cooler
 - 1. Manufacturer: Cel-Air, Model: CAH-ODO-8, Serial: 23513

7. Maintenance Building

- a. Demo and remove existing West Roof Mounted Evaporative Cooler MB-EV01.
- b. Demo and remove existing Roof Mounted AAON 4 ton Air Conditioning Unit MB1-RT-HVAC1 with new unit sized appropriately to handle existing load and add the upstairs storage area formerly serviced by MB-EV01.
 - i. Manufacturer: AAON, Model: 31450 (needs verified), Serial: 200011-AKE02945 (needs verified)
 - ii. Supply and install new insulated double wall exterior rated supply air ducting from new roof mounted air conditioning unit to roof penetration for demolished MB-EV01.
 - iii. Demo and remove electric actuator and wiring to existing wall mounted exhaust damper on north wall. Provide finished cover on interior side of wall to block off abandoned exhaust damper. Leave exterior louvered finish as is.
 - iv. Modify existing two return air ducts to relocate the return air intakes in the Maintenance Team Room to increase the distance between the nearest supply air louver and the return air louver to minimize short circuiting of conditioned air. The new duct extension should be approximately 8-ft long.
- c. Demo and replace unit in entirety with new and adjusted capacity as indicated.

- i. Existing (2) roof exhaust fans.
 - 1. Currently each fan is controlled by its own thermostat. Demo and remove existing thermostat controls and provide a new single local control panel with an HOA for the main fan in the main shop area and the one fan in the east storage area. In Auto a remote mounted temperature sensor mounted in the main shop above floor level will sense the space temperature. The LCP shall be mounted on the main shop floor level and shall have an adjustable temperature setpoint at which the three roof mounted exhaust fans turn on.
 - a. Main Shop Fan is currently 3333 CFM. Replace with 4000 CFM fan.
 - b. East Storage Area Fan is currently 1725 CFM. Replace with 1000 CFM fan.
 - ii. The auxiliary fan in the main shop is to be removed along with its thermostat, control and power wiring. Install a sun-tube in roof opening appropriately sized for the existing opening.
 - iii. Replace the fan with new 500 CFM fan. Modify the roof top exhaust fan that currently sits above the interior masonry wall between the tool storage and the main shop mezzanine with new ducting to the mezzanine area. This will require removal of the top course of masonry at this location between the roof top double tees. This fan will have a thermostat mounted six feet from the transformer on the mezzanine level that turns the fan on when a set high temperature is reached.

8. Thermal Drying Building

- a. Demo and replace unit in entirety with equal. Reposition unit for better maintenance access. Replace flues to accommodate new equipment and provide a 15-year service life.
 - i. 12H-GUH-1 South Unit Heater
 - ii. 12H-GUH-2 Northwest Unit Heater
 - iii. 12H-GUH-3 North middle Unit Heater
 - iv. 12H-GUH-4 Northeast Unit Heater
- b. Demo and replace unit in entirety with equal. This unit has a natural gas heating section.
 - i. 12H-AC-2 West Air Conditioner to Electrical Room
 - 1. Manufacturer: Carrier, Model 48HJF009-65HS, Serial: 5007G40174

9. Solids Handling Building

- a. Demo and replace unit in entirety with equal. Care shall be taken to remove control wiring between SCADA PLC and existing unit. Provide control thermostat in Electrical VFD Room.
 - i. SUF-1004 AAON Rooftop Air Conditioner

- b. Demo and replace unit in entirety. Supply and install new PVC pipe vent thru new exhaust air evaporative cooler media to exhaust fan inlet. Route vent piping out of the way against the south wall.
 - i. TK-SP-01-V
- c. Demo and replace unit in entirety with equal. Mount upstream of exhaust air evaporative cooler media to mitigate corrosion impacts on instrument.
 - i. FE/FIT-1002 Exhaust Air Flow Meter
 - 1. Manufacturer is Ebtron. Transmitter Model is GTC-116 P+ with Gold Series Probe for 112”H X 102”W rectangle; probe length 112”, 4 sensors per probe, 4 probes.
- d. Demo and replace unit in entirety with equal or better. Replace cellular evaporative media / cell deck, water pan, float valve and associated appurtenances with new. Replace water supply and drain piping within HVAC plenum with schedule 80 PVC piping. Point of piping material transition must be outside of HVAC plenum. Provide float pump on-off switch outside of HVAC plenum in hallway.
 - i. Air Washer AW-1002 Exhaust Air Evaporative Cooler Section

PROPOSAL FORM

IDENTIFICATION: REPLACEMENT OF HVAC EQUIPMENT

PROPOSAL IS SUBMITTED TO:

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

The undersigned Vendor agrees, if this Proposal 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 Proposal and in accordance with the Specifications.

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

In submitting this Proposal, 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 Proposal Documents, 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 Proposal 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.

PROPOSAL FORM (Continued)

Price Schedule Items shall include and cover all costs taxes, licenses, fees, transportation/delivery, labor and materials to provide, install, test and provide training on the equipment.

PRICE SCHEDULE

ITEM	DESCRIPTION	PROPOSAL PRICE
1.a.i-iii	SUF-3401,5,7	_____
1.a.iv-v	EXF-3402,6	_____
1.b.i-ii	FAF-3403,4	_____
1.c.i thru ix	UH-3701 thru UH-3708, UH-3711	_____
2.a	Option 1 New Glycol Lines	_____
2.b	Option 2 Convection Heaters	_____
3.a thru c	RW-ME-2	_____
3.d	RW-F-2	_____
4.a.i	RW-ME-105	_____
4.a.ii	RW-ME-109	_____
4.b & c	RW-ME-104	_____
5.a	3H-RTU-1 & 2	_____
5.b	3H-RTMU-1 & 2	_____
6.a.i & ii	5H-EC-1 & 2	_____
7.	Maintenance Building	_____
8.a	12H-GUH-1,2,3,4	_____
8.b	12H-AC-2	_____
9.a.i	SUF-1004	_____
9.b thru d	TK-SP-01-V, FE/FIT-1002, AW-1002	_____

PRICE SCHEDULE TOTAL PRICE _____
(price schedule total should include either 2.a or 2.b in sum, not both)

Price written in words: _____

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 Price Schedule Work _____
Delivery, Calendar Days

PROPOSAL FORM (Continued)

Vendor Information:

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

Vendor's name and address:

Vendor's telephone number: _____

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

Origin of equipment: _____

Communications concerning this Proposal 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. _____

<END>