DEPARTMENT OF WATER SUPPLY • COUNTY OF HAWAI`I
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DEPARTMENT OF WATER SUPPLY
COUNTY OF HAWAI'I
HILO, HAWAI'I

ADDENDUM NO. 3

JOB NO. 2022-1213

INVITATION FOR BIDS

FOR THE

FURNISHING AND DELIVERING A 1,000KW GENERATOR SET
District of PUNA
County of Hawai'i – State of Hawai'i

The following revisions and changes shall be made a part of the contract bidding documents:

1) Changes to **PROPOSAL:**

   Page P-1: **REVISE** completion date from Two Hundred Forty (240) calendar days to ***Four-Hundred Eighty (480) calendar days*** from the date of Notice to Proceed.

2) Changes to **INSTRUCTIONS TO BIDDERS:**

   Page IB-20: **DELETE** Items 21, 22, 23, 24, and 25 in their entirety. These sections are not applicable to this solicitation.

3) Changes to **SPECIAL PROVISIONS:**

   Page SP-11: **DELETE** Section 304.05.B.12 in its entirety and **REPLACE** with the attached revised pages SP-11A – SP13A.

4) **CLARIFICATIONS**:

   The DWSRF BOILERPLATE is not applicable to this solicitation, however, the Davis-Bacon requirements are still applicable, in accordance with INSTRUCTION TO BIDDERS, Section 8.B.

BY AUTHORITY OF THE DEPARTMENT OF
WATER SUPPLY COUNTY OF HAWAI'I

Date: January 26, 2023

By: _____
Keith K. Okamoto, P.E., Manager-Chief Engineer

Please sign and return immediately to the Manager-Chief Engineer of the Department of Water Supply.

Receipt of a copy of **ADDENDUM NO. 3** for JOB NO. 2022-1213, INVITATION FOR BIDS FOR FURNISHING AND DELIVERING A 1,000KW GENERATOR SET, District of Puna, County of Hawai'i, State of Hawai'i, is hereby acknowledged.

_____
NAME OF BIDDER

Date: _____

By: _____

12. WEATHERPROOF ENCLOSURE WITH FUEL TANK

a. A new weatherproof, sound attenuated enclosure shall be by manufacturer or by manufacturer recommended third-party with manufacturer recommended design.

b. Enclosure: Shall be highly corrosion resistant, constructed from 12 gauge (minimum) 5052 grade aluminum, completely weatherproof and rugged construction to withstand 24/7/365 outdoor exposure, storm conditions and rough handling during transportation. Enclosure shall be baked polyester powder coated, polymer coated, or equivalent. Color shall be white or similar.

i. Enclosure shall conform to UL 2200. Enclosure shall be designed to withstand uniform wind loads (120 mph) and designed to withstand seismic loads, conforming to applicable international building codes.

ii. Enclosure shall have pitched roof for rain ingress protection. Enclosure shall be provided with vibration isolators for generator system, including the exhaust system, as required.

iii. Enclosure shall have cooling fan and battery charging alternator fully guarded, secured fuel and oil fill inlets, and externally mounted emergency stop. Zinc galvanized interior fasteners (minimum) and stainless-steel exterior fasteners shall be used.

iv. Lube oil and coolant drains piped to the exterior.

v. Sound Attenuation: Enclosure shall be designed to reduce source noise to 80 dBA at 7 Meters, or less.

vi. Doors: Enclosure shall be furnished with multiple doors (gasketed and weather tight) on each side to allow easy access to equipment for service and operations, with door latches and stays. All doors shall be lockable with pad lock.

vii. Ventilation: Adequate ventilation area shall be provided for proper generator set operation. Ventilation louver and enclosure design shall prevent water from entering the generator set and control panel enclosed area. Design shall not allow rain or small debris (falling leaves, twigs, etc) in, and/or allow them to drain from enclosure without ponding.

viii. Electrical: Provide combination panel with main circuit breaker. Wire to jacket water heater, generator space heater, battery charger and any other accessories. Electrical system shall be in accordance with National Electric Code.

ix. Shore Power: Provide a watertight shore power receptacle to connect shore power to enclosure electrical system, IP68, UV resistant, impact resistant, corrosion resistant, rated for outdoor use. Receptacle back box shall be properly sized, IP67, with 15° angle. Shore power connection shall be properly sized for electrical load.

1) Provide the compatible watertight plug adapter, meeting the same watertight, environmental and electrical requirements as the receptable.

c. Exhaust system:

   i. Enclosure manufacturer shall provide all necessary hardware to internally mount/support the specified exhaust silencer(s) and maintain the weatherproof integrity of the system. Exhaust pipe and silencer shall be insulated, protected, or located to prevent accidental contact.

   ii. Provide all expansion joints required and a condensate drain trap in piping or with silencer, design shall prevent water from reaching the engine.

   iii. If vertical outlet, a 316 stainless steel rain cap shall be provided to make the outlet completely weather tight when engine is not operating. Provisions shall be provided to ensure water does not pond near stack.

d. Generator set power connection: Enclosure shall have means to connect power cable to generator set through camlock electrical connection inside a weatherproof box. Means shall be provided to ensure camlock connection points remain weather protected while power cables are connected. Series 16 camlocks, 400 amp, NEMA 3R, elastomeric, listed to UL1691. Camlock connections shall be female and be provided with protective cap and lanyard or receptable cover, NEMA 3R minimum. Provide the proper number of camlock connections per phase to carry at least 100% genset full load amps. Provide proper number of neutral and ground connections. Camlock colors shall be as follows:

   i. Phase A – Brown

   ii. Phase B – Orange

   iii. Phase C – Yellow

   iv. Neutral – White

   v. Ground – Green

e. Fuel Tank: Provide a dual walled, fuel tank with rupture basin, conforming to UL 142. Fuel tank shall be capable of meeting NFPA 30 and 110. The fuel tank shall be sub-base or adjacent to enclosure. The fuel tank shall have a 304 stainless steel outer-tank and mild carbon steel inner tank, or better. Fuel tank capacity shall be 1,000 gallon, minimum. Fuel tank shall include the following:

   i. Normal and emergency vents, size and height as required for proper ventilation.

   ii. As required, all pump, piping, controls, valves, supports and accessories for seamless and automatic operation of genset.

   iii. Manual fuel gauge.

   iv. Digital fuel gauge wired to control panel.

   v. Low fuel level alarm wired to control panel.

   vi. Leak detection system wired to control panel.

   vii. Overfill prevention valve.

viii. All externally exposed pipe risers shall match outer tank material (304 stainless steel or better).

f. Trailer: Complete trailer for highway use, with all parts and accessories required for secure connection and safe genset enclosure/accessories transportation. Fully compliant with all Federal, Hawaii State, and Hawaii County Department of Transportation regulations.

i. Kingpin coupler shall be high tensile strength, rigid and reinforced, for fifth wheel connection.

ii. Trailer shall be capable of supporting and transporting the enclosure with full fuel tank and shall provide means to properly secure the enclosure to the trailer.

iii. Provide adequate landing gear and parking stands as required, having adequate lift capacity and static load capacity for the load.

iv. Trailer shall be sized for maximum mobility to be able to access DWS sites. Trailer ground clearance shall be as large as possible, no less than 12 inches. Trailer shall be as short as possible, no longer than the legal limit as described in Section 304.05.B.12.h.

v. Brakes shall be air actuated, "S" cam type. The air system shall be provided with two (2) color coded gladhands.

vi. Lighting and wiring shall be compliant with all Department of Transportation regulations. All wiring shall be in conduit and/or loom and fully protected. Standard system with 7-way round pin electrical connection to industry standards.

vii. Trailer shall have lockable, weatherproof, tool compartment permanently mounted to the trailer, to house all power cables. Coated similar to trailer.

viii. Trailer shall be coated entirely with 70% (minimum) zinc rich epoxy primer and 3 coats (minimum) of urethane topcoat, or similar; unless components are aluminum or stainless steel.

ix. Trailer shall conform to all applicable ICC, Federal Motor Vehicle, Hawaii State and Hawaii County safety standards.

g. A raised aluminum walkway, easily accessible, shall be provided to allow easier access to generator control panel, breaker, e-stop, and other areas of interest. Means to lock the walkway to the trailer/enclosure while in use shall be provided to avoid theft. Walkway shall be able to be secured to trailer for transport with the generator.

h. The full assembly (enclosure, fuel tank, trailer and accessories) dimensions shall be less than oversized/overweight vehicle limits per Department of Transportation (DOT) and shall be able to be transported without a DOT permit.