



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. 4**

JOB NO. 2022-1204

INVITATION FOR BIDS  
FOR THE  
HUALĀLAI DEEPWELL REPAIR  
DISTRICT OF NORTH KONA  
County of Hawai'i – State of Hawai'i

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

A) Changes to **SPECIAL PROVISIONS**:

- 1) Pages SP-24 – SP-25, Section 304.05.B.1.a., previously revised in Addendum No. 3, shall be **DELETED** in its entirety, and **REPLACED** with the following:
  - a. Submersible vertical turbine well pumps and the materials used in their manufacture shall comply with the most recent revision of the following standards:

Subject	Standard Designation
Electrical Submersible Pumps	API RP 11S
Discharge Case	Cast Stainless Steel ASTM A744 Gr. CF8M or Nickel Aluminum Bronze ASTM B148 Alloy C95500
Discharge Case Bearing	<del>Vesconite Hilube or Bismuth Tin Bronze ASTM B505 Alloy C89835 or</del> Tungsten Carbide
Upthrust Washer	Stainless Steel ASTM A582 Gr. 316
Intermediate Bowl(s)	Cast Stainless Steel ASTM A744 Gr. CF8M or Nickel Aluminum Bronze ASTM B148 Alloy C95500
Intermediate Bowl Bearing(s)	<del>Vesconite Hilube or Bismuth Tin Bronze ASTM B505 Alloy C89835 or</del> Tungsten Carbide
Stationary Wear Ring(s)	Vesconite Hilube or approved equal
Impellers	Nickel Aluminum Bronze ASTM B148 Alloy C95500
Taper Lock Collets	Stainless Steel ASTM A582 Gr. 316
Suction Case	Cast Stainless Steel ASTM A744 Gr. CF8M or Nickel Aluminum Bronze ASTM B148 Alloy C95500
Suction Case Bearing	<del>Vesconite Hilube or Bismuth Tin Bronze ASTM B505 Alloy C89835 or</del> Tungsten Carbide
Sand Collar	Stainless Steel ASTM A582 Gr. 316 or Stainless Steel ASTM A240 Gr. 304

*...Water, Our Most Precious Resource...Ka Wai A Kāne...*

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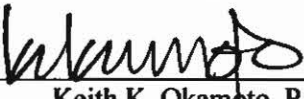
Subject	Standard Designation
Pump Shaft	Stainless Steel ASTM A276 Gr. 17-4 PH PSQ or Monel
Discharge Bearing Plug	Stainless Steel ASTM A582 Gr. 316
Suction Screen	Stainless Steel ASTM A240 Gr. 316
Intake/Seal Adapter Bracket	Cast Stainless Steel ASTM A744 Gr. CF8M
Seal Face	Silicon Carbide
Seal Shaft	Inconel
Motor Adapter Bracket	Cast Stainless Steel ASTM A744 Gr. CF8M or Carbon Steel
Seal & Motor Couplings	Stainless Steel ASTM A582 Gr. 316
Cable Guard	Stainless Steel ASTM A240 Gr. 304
Bowl Assembly Hex Bolts	Stainless Steel ASTM A193 Gr. B8S Nitronic 60 or Monel

2) Page SP-30, **REVISE** Section 304.05.B.3.e.iv. as follows:

- iv. The intermediate bowl and case bearings shall be ~~Vesconite Hi-Lube~~, Tungsten Carbide, or other non-corrosive material by approval.

BY AUTHORITY OF THE DEPARTMENT OF  
 WATER SUPPLY COUNTY OF HAWAII

Date: January 24, 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. 4** for JOB NO. 2022-1204, HUALĀLAI DEEPWELL REPAIR, District of North Kona, County of Hawai'i, State of Hawai'i, is hereby acknowledged.

\_\_\_\_\_  
 NAME OF BIDDER

Date: \_\_\_\_\_

By: \_\_\_\_\_