



DEPARTMENT OF WATER SUPPLY • COUNTY OF HAWAII

345 KEKŪANAŌ'A STREET, SUITE 20 • HILO, HAWAII 96720

TELEPHONE (808) 961-8050 • FAX (808) 961-8657

DEPARTMENT OF WATER SUPPLY
COUNTY OF HAWAII
HILO, HAWAII

ADDENDUM NO. 2

JOB NO. 2016-1049

INVITATION FOR BIDS

FOR THE

**KAHALU'U BOOSTERS A, B & D REPAIR
DISTRICT OF NORTH KONA
County of Hawaii – State of Hawaii**

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

1. Changes to **PROPOSAL:**

REPLACE pages P-11 & P-12 with the attached replacement pages P-11A & P-12A. Revisions have been made to PART "E" (ELECTRICAL WORK). The descriptions of Items 3 – 6 have been revised.

2. Changes to **SPECIAL PROVISIONS:**

Page SP-7: "SECTION 304.05 BOOSTER PUMPING UNIT", Item B.1.a.i.4), the following pumps have been accepted as approved equal equipment:

Kahalu'u Booster A & B: Goulds/Gicon 6CHC, 8-stage, 78.1% efficiency

Kahalu'u Booster D: Simflo Pumps, Model SH10C, 10-stage, 82.2% efficiency

3. **CLARIFICATION:**

MOTOR INFO:

MOTOR MAKE	GENERAL ELECTRIC	HP	50.0	SERVICE FACTOR	1.15
MOTOR MODEL NUMBER	5KS326ST5022D20	VOLTS	460	MOTOR EFF.	93.00%
MOTOR SERIAL NUMBER	TWG 64264B	MOTOR RPM	3545	MOTOR LENGTH	
UPPER BEARING	235A2522AC01	AMPS	59.9	CABLE SIZE	
	TYPE	KS	PHASE	3	
LOWER BEARING	6212ZZC3	DESIGN	B	FREQUENCY	60
				FRAME NUMBER	L326TP16
THRUST RATING		CODE	G	INSULATION	F
				WEATHER CLASS	TEFC

Figure 1: Kahalu'u Booster A - Existing Motor Nameplate Data

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

The Department of Water Supply is an Equal Opportunity provider and employer.

Job No. 2016-1049
 Addendum No. 2
 August 1, 2016

MOTOR INFO:

MOTOR MAKE	GENERAL ELECTRIC	HP	50.0	SERVICE FACTOR	1.15
MOTOR MODEL NUMBER	5KS326ST5022D20	VOLTS	460	MOTOR EFF.	93.00%
MOTOR SERIAL NUMBER	THG64264A	MOTOR RPM	3545	MOTOR LENGTH	
UPPER BEARING	235A2523AC01	AMPS	59.9	CABLE SIZE	
	TYPE	PHASE	3	FRAME NUMBER	L326TP16
LOWER BEARING	6212ZZC3	DESIGN	B	FREQUENCY	60
THRUST RATING		CODE	G	INSULATION	F
				WEATHER CLASS	TEFC

Figure 2: Kahalu'u Booster B - Existing Motor Nameplate Data

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

Date: August 1, 2016

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. 2** for **JOB NO. 2016-1049, KAHALU'U BOOSTERS A, B & D REPAIR**, District of North Kona, County of Hawai'i, State of Hawai'i, is hereby acknowledged.

 NAME OF BIDDER

Date: _____

By: _____

Revised 8/1/16
Addendum No. 2

Item No.	Estimated Quantity	Description	Unit Price	Total Price
2.	Lump Sum	Kahalu‘u Booster A & B: Furnish and install four (4) spare 1” conduits between the discharge heads booster A & B, including all trenching, backfill, appurtenances, and two (2) pull boxes (316 stainless steel, NEMA 4X, 8 x 6 x 4, continuous hinge) supported against each existing concrete pad; two conduits per pull box. Conduit shall be terminated, capped and supported against motor control building exterior wall, 18–inches above grade.	\$	\$
3.	Lump Sum	Kahalu‘u Booster A & B: Install two (2) DWS furnished Toshiba LF622FAC211E electromagnetic flow meter transmitters with cable. Install transmitter in close proximity to existing termination cabinet and connect to flow meter, inclusive of providing two (2) pull boxes (316 stainless steel, NEMA 4X, 8 x 6 x 4, continuous hinge) supported against each existing concrete pad, trenching, backfill, cable routing, conduit, calibration, grounding, supports, appurtenances, all work and materials to connect 4-20 signal and terminate at termination cabinet with wire labels, and all work and materials to intercept 120VAC power for instrumentation power. Underground conduits for this Item shall share trench with Item #2 as much as possible. This Item shall not include trenching work already done under Item #2.	\$	\$
4.	Lump Sum	Kahalu‘u Booster D: Replace all existing flex conduit to pump control valve (solenoid control and limit switch) and flow switch; replace existing pull box (316 stainless steel, NEMA 4X, 10 x 8 x 4, continuous hinge); cut, cap both ends and abandon existing rigid conduit back to control building; provide new rigid underground conduit back to soft starter in control building , including all trenching, backfill, supports , and appurtenances; and replace all cabling from equipment to control building, with surface freight included. DWS to reconnect solenoid control and limit switch cables to starter. Underground conduits for this Item shall share trench with Items #2 & #3 as much as possible. This Item shall not include trenching work already done under Items #2 & #3.	\$	\$

Revised 8/1/16
 Addendum No. 2

Item No.	Estimated Quantity	Description	Unit Price	Total Price
5.	Lump Sum	Kahalu‘u Booster D: Install one (1) DWS furnished Toshiba LF622FAC211E electromagnetic flow meter transmitters with cable. Install transmitter in close proximity to existing termination cabinet and connect to flow meter, inclusive of providing all trenching, back fill, conduit, pull box (316 stainless steel, NEMA 4X, 8 x 6 x 4, continuous hinge) supported against existing concrete pad, cabling, calibration, grounding, supports, appurtenances, all work and materials to connect 4-20 signal and terminate at termination cabinet with wire labels, and all work and materials to intercept 120VAC power for instrumentation power. Underground conduit for this Item shall share trench with Items #2, #3 & #4 as much as possible. This Item shall not include trenching work already done under Items #2, #3 & #4.	\$	\$
6.	Lump Sum	Kahalu‘u Booster D: Furnish and install two (2) spare 1” conduits next to discharge head, including all trenching, backfill, appurtenances, and one (1) pull boxes (316 stainless steel, NEMA 4X, 8 x 6 x 4, continuous hinge) supported against existing concrete pad; two conduits per pull box. Conduit shall be terminated, capped and supported against motor control building exterior wall, 18–inches above grade. Underground conduit for this Item shall share trench with Items #2, #3, #4 & #5 as much as possible. This Item shall not include trenching work already done under Items #2, #3, #4 & #5	\$	\$

TOTAL PART “E”

\$ _____