

INVITATION FOR BIDS (IFB) NO. 22-4391

TO

FURNISH AND DELIVER

COMPACT EXCAVATOR

FOR

UNIVERSITY OF HAWAI'I AT HILO

UNIVERSITY OF HAWAI'I

HILO, HAWAI'I

NOVEMBER, 2021

BOARD OF REGENTS

UNIVERSITY OF HAWAII

HONOLULU, HAWAII

TABLE OF CONTENTS

IFB No. 22-4391 to Furnish and Deliver Compact Excavator for University of Hawai'i at Hilo, Hilo, Hawai'i

<b>Section</b>	<b>Pages</b>
Notice to Bidders.....	2
Bid Requirements.....	3 - 5
Technical Specifications.....	6 - 11
Special Provisions.....	12 – 14
Attachment – Mandatory Bid Form .....	1 - 5

**IT IS THE RESPONSIBILITY OF ALL BIDDERS TO CHECK THE TABLE OF CONTENTS TO CONFIRM THAT ALL PAGES LISTED THEREIN ARE REVIEWED AND THAT THE MANDATORY BID FORM IS SUBMITTED AS PART OF THEIR BID PACKAGE.**

## NOTICE TO BIDDERS

The University of Hawaii IFB No. 22-4391, to Furnish and Deliver Compact Excavator for University of Hawai'i at Hilo, Hilo, Hawai'i, will be issued via the Hawaii Electronic Procurement System (HlePRO). **Bids must be submitted via HlePRO no later than 2:30 p.m. HST, November 22, 2021. Bids received after the bid due date and time or not submitted via HlePRO will not be considered.**

Bidders are advised to allow ample time for submitting their bid to ensure the submission process is completed and timely. **Bidders are solely responsible for ensuring their bid submission is completed prior to the bid due date and time.** The University shall not be responsible for any delay or failure of Bidders in submitting a complete bid.

### **ELECTRONIC PROCUREMENT**

Bidders interested in responding to this solicitation must be registered on HlePRO. To register, visit the URL: [https://hiepro.ehawaii.gov/videos/video/vendor\\_registration.html](https://hiepro.ehawaii.gov/videos/video/vendor_registration.html). Reference the Vendor Quick Reference Guide for additional information [at https://hiepro.ehawaii.gov/static-resources/VendorQuickReferenceGuide.pdf](https://hiepro.ehawaii.gov/static-resources/VendorQuickReferenceGuide.pdf).

HlePRO is the system of record for issuing IFB No. 22-4391 and related amendments (including changes to the bid due date and time). In addition, HlePRO is the sole vehicle for Questions, Requests for Clarification, Bid Submittals (i.e., MANDATORY BID FORM and related attachments) and Notification of Award. Bidders shall review all special instructions in HlePRO related to this IFB which are made a part of this IFB through reference.

### **QUESTIONS AND REQUESTS FOR CLARIFICATION**

Questions and Requests for Clarification regarding the Technical Specifications or any other aspect of the IFB must be submitted via HlePRO by **4:00 p.m. HST, November 12, 2021**. Responses are scheduled to be posted on **November 16, 2021**.

The University shall not be required to answer Questions or Requests for Clarification not submitted via HlePRO or received after the Questions and Requests for Clarification deadline.

David Lassner  
President, University of Hawaii

Posting Date: **November 8, 2021**

***Vendors are responsible for notifying the Procurement Specialist Michele Elmore (e-mail: [mseimore@hawaii.edu](mailto:mseimore@hawaii.edu)) for accessibility concerns related to this IFB.***

BID REQUIREMENTS  
TO  
FURNISH AND DELIVER  
COMPACT EXCAVATOR FOR UNIVERSITY OF HAWAI'I AT HILO

Submission of the **MANDATORY BID FORM** via HlePRO confirms a bidder has carefully examined the INVITATION FOR BIDS (IFB) NO. 22-4391, FURNISH AND DELIVER COMPACT EXCAVATOR FOR UNIVERSITY OF HAWAI'I AT HILO, UNIVERSITY OF HAWAI'I, and offers to furnish and deliver goods as specified, in strict accordance with the true intent and meaning of the Invitation for Bids (IFB) and shall complete delivery within **TWO-HUNDRED SEVENTY (270)** consecutive calendar days from the date designated in the Notice to Proceed letter.

TAX LIABILITY

Both out-of-state and Hawaii bidders are advised that the amount bid on this solicitation is subject to the general excise tax imposed by Chapter 237, Hawaii Revised Statutes (HRS) and, if tangible property is being imported into the State of Hawaii for resale, the use tax (currently 1/2%) imposed by Chapter 238, HRS. (Refer to Taxes in the General Provisions.) Bidders are therefore cautioned to consider such taxes in formulating their bids since no adjustments to the prices bid shall be allowed.

BASIS FOR AWARD

The award of contract, if awarded, shall be made to the lowest responsive and responsible bidder on the **TOTAL BASIC BID**.

Prices for all items shall be F.O.B. destination, including all applicable charges and taxes.

NOTE TO BIDDERS

An acceptable bid must conform in all material respects to this Invitation for Bids. Any of the following may be grounds for disqualification:

1. Taking exception to any of the specifications, terms or conditions contained in the IFB.
2. Placing conditions on the furnishing of solicited goods or services.
3. Inclusion of a quotation or order form containing additional specifications, terms or conditions.
4. Referencing external documents containing additional specifications, terms or conditions.

Bidders are advised that bids are evaluated as submitted and requests by bidders to delete conditions contained in their bids after bid opening cannot be considered.

### SUBSTITUTIONS TO BE APPROVED IN ADVANCE

The manufacturer and model number of items identified in the TECHNICAL SPECIFICATIONS are used as a measure of quality, style, appearance and performance. Any brand or manufacture of equal or better quality and performance to that specified will be considered for acceptance by the University upon submission for a written request for approval of the proposed substitution with manufacturer's literature or brochures containing technical data and illustrations of the proposed items being offered. Bidders offering item(s) as specified are not required to submit literature, brochures, etc.

All requests for substitutions shall be submitted via email to the Technical Representative, William Walters (wwalters@hawaii.edu) no later than **4:00 p.m., November 12, 2021**. Emailed requests shall be submitted together with electronic technical brochures and be accompanied by a statement of variances as shown on the attached "Sample Request for Substitution." The statement of variances shall list all features of the proposed substitution which differ from the technical specifications and/or product(s) specified and shall further certify that the substitute has no other variant features. The brochures shall be clearly marked showing make, model, size, options, etc., and shall include sufficient evidence to enable the University to evaluate each feature listed as a variance. Substitution requests for the compact excavator and specified options must be compatible and collectively capable of providing a complete working compact excavator. Submittals with insufficient information for evaluation shall be rejected.

A bid which includes a substitution shall be considered only if the substitution has been approved in advance by the University. The University may reject or deny any substitution that it may, in its discretion deem unequal, and the findings in this regard shall be accepted by the bidder as final and binding.

SAMPLE

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

William Walters, Technical Representative  
University of Hawai'i at Hilo  
E-Mail: [wwalters@hawaii.edu](mailto:wwalters@hawaii.edu)

To Whom It May Concern:

Subject: REQUEST FOR SUBSTITUTION

Project Title: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

In accordance with TECHNICAL SPECIFICATIONS, I hereby submit for substitution the technical brochures and statement of variances for your review and approval for the item(s) shown below:

<u>ITEM</u>	<u>SPECIFIED BRAND</u>	<u>SUBSTITUTE OR ALTERNATE BRAND</u>	<u>VARIANT FEATURES</u>
-------------	------------------------	--------------------------------------	-------------------------

I further certify that my request for substitution of the above item(s) has no other variant features.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

- NOTE:**
- 1. SUBMIT VIA E-MAIL: [wwalters@hawaii.edu](mailto:wwalters@hawaii.edu)**
  - 2. PLEASE USE OWN LETTERHEAD.**
  - 3. IF NO VARIANT FEATURE, INDICATE "NONE"**

## TECHNICAL SPECIFICATIONS

This section indicates the Technical Specifications for the equipment required. The Technical Specifications listed herein are the minimum (except where otherwise noted) requirements and are mandatory for an accepted bid. The University shall only be charged for goods received at the contract rates in the Mandatory Bid Form.

The bid form is provided on MANDATORY BID FORM Pages 2 and provides all the specifications for the bid items.

### SCOPE OF WORK

- A. Contractor shall be responsible for furnishing and delivering the Compact Excavator with compatible options as specified herein, to include all incidental and related materials required for a complete and properly functioning Compact Excavator.
- B. Proposed substitutions to be approved in advance. A bid which includes a substitution shall be considered only if the substitution has been approved in advance by the University. Substitution requests for the Compact Excavator and specified options must be compatible and collectively capable of providing a complete working Compact Excavator.
- C. Contractor shall coordinate all delivery, service and invoicing with the Director of Auxiliary Services, William Walters at (808) 932-7858. All equipment shall be delivered as specified with a full tank of gas, and properly functioning prior to acceptance by the University.

### REQUIRED COMPONENTS

Compact Excavator, KUBOTA model year 2021 or later, Model No. KX040-4 6-in-1 Blade, with specified compatible options, or approved substitution with the following minimum requirements:

*(Measurements are approximate. Reasonable variations are acceptable, to be determined by the University)*

#### A. GENERAL

- 1. The Compact Excavator base model with rubber tracks and custom options shall be model year 2021 or later.
- 2. The Compact Excavator with specified compatible options shall meet all applicable federal, Hawai'i and County of Hawai'i safety requirements.

B. OPERATING AREA

1. Digging controls
  - a. Shall include two pilot operated, console mounted joystick levers controlling simultaneous boom, arm, bucket, and housing swing.
2. Operating pattern
  - a. Shall have two pattern selector valves for selecting ISO or SAE control pattern without tools or leaving seat.
3. Blade controls
  - a. Shall have a separate right-hand lever to control blade up, down, and float.
  - b. Shall have hydraulic angle dozer blade function controlled by rocker switch on same lever.
  - c. Shall have hydraulic 6 in 1 dozer blade tilt functions controlled by rocker switch on same lever. Angle functions shall be controlled by a twist of the same lever.
  - d. Lever shall house two-speed travel switch in the forefinger location.
4. Track controls
  - a. Shall have straight travel when operating other circuits.
  - b. Shall have two self-centering hand and foot levers to control speed and direction.
  - c. Shall have travel speed selector switch on blade lever.
5. Boom swing controls
  - a. Shall have right foot pedal to control boom swing.

C. ENGINE

1. Model shall be Kubota D1803-CR-TE4, meeting Tier 4 emission standards, or approved substitution.
2. Shall have three cylinder, liquid-cooled, overhead valve, direct injected, E-CDIS diesel.
3. Output (SAE J1349 gross): 40.4 hp @ 2200 rpm
4. Output (SAE J1349 net): 38.9 hp @ 2200 rpm
5. Displacement: 111.4 cu.in.
6. Fuel consumption, 75% full load, rated speed: 1.6 gal / h
7. Starter motor: 12 volt, gear reduction type, 1.9 hp

D. DIGGING PERFORMANCE

1. Arm breakout force: 4.112 lbf.
2. Bucket breakout force: 9,535 lbf.
3. Maximum digging depth: 11' 2.7"
4. Maximum digging height: 17 '6"
5. Maximum dumping height: 12' 9.5"
6. Maximum reach @ ground level: 17' 9"
7. Maximum vertical digging depth: 7" 4.8"

E. MACHINE DIMENSIONS

1. Overall dimensions: 200"L x 97.8"H x 66.9"W
2. Clearance under upper structure: 22.6"
3. Tail swing radius: 51.3"
4. Tail swing overhang: 17.7"
5. Ground clearance: 12.99"

F. HYDRAULIC 6 IN 1 BLADE DIMENSIONS

1. Blade dimensions: 70.9"W x 15.2"H
2. Maximum lift above ground: 17.0"
3. Maximum drop below ground: 20.8"
4. Maximum swing angle: 25° left or right
5. Maximum tilt angle: 10° up or down

G. HYDRAULIC SYSTEM, 6 IN 1 BLADE

1. Auxiliary hydraulic flow: 17.2 gpm
2. Pump capacity: 24.4 GPM

3. Maximum breakout force: Bucket 9535 lbf / Arm 4112 lbf

H. DRIVE SYSTEM

1. Traveling speed: low 1.8 mph, high 3.1 mph
2. Maximum traction force: low speed 9,747 lbf
3. Length of track on the ground: 67.3"
4. Under carriage shoe width: 13.8"
5. Ground contact pressure: 5.10 psi

I. SWING SYSTEM

1. Unit swing speed: 9.2 rpm
2. Boom swing angle: 70° left / 55° right

J. UNDERCARRIAGE

1. Shall have grease track tension adjustment.

K. HYDRAULIC OIL (RESERVOIR / SYSTEM)

1. Hydraulic oil reservoir: 11.1 gallons
2. Hydraulic oil system: 19.6 gallons

L. FUEL RESERVOIR

1. Fuel reservoir: 16.9 gallons

M. OPERATING WEIGHT

1. Minimum operating weight for cab, rubber tracks, 6 in 1 blade shall be 9,900 lbs.

N. OPTIONS

1. Shall have 6 in 1 dozer blade with float function and bolt-on cutting edge.

2. Shall include 30EX brush flail mower, BrushHound 30EX Brush Flail Mower with CD2500 blades, or approved substitution with the following features:
  - a. Shall safely cut and mulch small tress, grass and brush.
  - b. Shall easily attach to the KUBOTA KX040-4 excavator to quickly convert it into a long-reach boom mower to clear high vines and trees to the ground.
  - c. Shall have curved, heavy-duty CD2500 side slicer.
  - d. Cutting width: 30"
  - e. Overall width: 56"
  - f. Machine weight: 792 lbs.
  - g. Number of knives: 18 slicer / 9 center
  - h. Aux flow required: 12 GPM
  - i. Capacity: 3.5"
  - j. Motor type: Gear
  - k. Shall include universal bolt on mount
  - l. Shall include 100" hydraulic hoses and flat faced couplers.
  
3. Hydraulic rock hammer, NPK, Model No. PH-2 or approved substitution with the following features:
  - a. Shall have a fully sleeved one-piece hammer body without tie rods.
  - b. Shall have quick-change tool system with single round retainer pin.
  - c. Shall have replaceable cylinder sleeves for rebuild.
  - d. Shall have slip fit tool bushings for replacement.
  - e. Shall have gas charge valve.
  - f. Shall have gas charged piston to maximize hammer efficiency.
  - g. Shall have two-moving part design.
  - h. Shall have ports for automatic bushing lubrication and air for underwater use.
  - i. Shall have anti-blank fire feature.
  - j. Impact frequency: 500 - 1200 bpm
  - k. Carrier weight: 3.5 - 5 tons
  - l. Oil flow: 7 – 16 gpm
  - m. Operating pressure: 2465 psi
  - n. Working weight: 610 lbs.
  - o. Tool diameter: 2.6 inches
  - p. Tool working length: 15.1 inches
  
4. Excavator auger, Land Pride, EA20 Series, or approved substitution with the following features:
  - a. Shall have quick attach auger mounts, part no. 317-247A.
  - b. Shall have fabricated steel cradle for carrying the unit while excavator is traveling, part no. 317-246A.
  - c. Shall have medium flow, 10-20 gpm @ 1500 to 3500 psi hydraulic motor, part no. 317-209A.
  - d. Shall have 54" hose kit with hydraulic quick disconnects compatible with the KUBOTA KX040-4, part no. 317-284A.

- e. Shall have built-in level indicator.
- f. Shall include 2" rock auger with replaceable carbide edge, 36" long.
- g. Shall include 4.5" rock auger with carbide bullet tips, 48" long.
- h. Shall include 6" rock auger with carbide bullet tips, 48" long.
- i. Shall include 9" rock auger with carbide bullet tips, 48" long.
- j. Shall include 12" rock auger with carbide bullet tips, 48" long.
- k. Overall unit and driveline shall have a minimum one-year parts and labor warranty. Auger shall have a minimum one-year material and workmanship warranty. Gearbox shall have a minimum 5-year parts and labor warranty. Hydraulic motor shall have a minimum 5-year warranty.

5. Second service port (dual hydraulic attachment piping kits).

O. WARRANTY

- 1. Shall have a minimum all usage, basic standard limited warranty on service, parts and labor, and emissions of 24 months or 2,000 hours, whichever occurs first.
- 2. Shall have an additional minimum extended warranty of 24 months or 4,000 hours, whichever occurs first.

**All questions pertaining to the Technical Specifications must be submitted per the instructions in the QUESTIONS AND REQUESTS FOR CLARIFICATION section of the NOTICE TO BIDDERS. The submittal of a bid shall be considered as acceptance of the specifications as published.**

## SPECIAL PROVISIONS

### 1. SCOPE

The resulting contract to Furnish and Deliver Compact Excavator for University of Hawai'i at Hilo, Hilo, Hawai'i, shall be in accordance with the terms and conditions of IFB No. 22-4391 and the General Provisions dated September 2013 included by reference. The General Provisions may be viewed at:

<https://www.hawaii.edu/procurement/vendor-info/terms-and-conditions/general-provisions-for-goods-and-services/>.

### 2. AUTHORITY

IFB No. 22-4391 is issued under the provisions of Hawaii Revised Statutes, Chapters 103 and 103D. All prospective bidders are charged with presumptive knowledge of all requirements of the cited legal authorities. Submission of a valid executed bid by any prospective bidder shall constitute an affirmation of such knowledge on the part of such prospective bidder.

### 3. TECHNICAL REPRESENTATIVE OF THE PROCUREMENT OFFICER (TRPO)

The Technical Representative of the Procurement Officer is William Walters, Director of Auxiliary Services, telephone (808) 932-7858, and email [wwalters@hawaii.edu](mailto:wwalters@hawaii.edu).

### 4. COVID-19 RULES AND STANDARDS

Must adhere to UH system COVID-19 Rules and Standards, State of Hawaii and Federal Guidelines to include, but not limited to all Safety and Environmental Guidelines, Standards and regulations applicable to UH system maintenance, service, repair, renovation and new construction.

### 5. SUBMITTAL OF TECHNICAL DATA

With their bids, bidders shall submit, manufacturer's literature or brochures with technical data and illustrations of the Compact Excavator base model and custom options being offered. Bidders offering item(s) as specified are not required to submit literature, brochures, etc.

### 6. BRAND NAME OR EQUAL

The brand name and model number(s) mentioned are used in this specification as a measure of quality and performance. Any brand or manufacture of equal or better quality and performance than that specified will be considered for acceptance by the University. However, the University reserves the right to reject and deny any

substitution that it may, in its discretion, deem unequal, and the findings in this regard shall be accepted by the bidder as final and binding.

7. DELIVERY

Delivery shall be F.O.B. destination to:

University of Hawai'i at Hilo  
Army Reserve, Assembly Building Parking Area  
360 W. Lanikaula Street  
Hilo, Hawai'i 96720

Delivery shall be completed within **TWO HUNDRED SEVENTY (270)** consecutive calendar days from the date designated in the Notice to Proceed. Prior to delivery, the Contractor shall contact the Technical Representative, William Walters (808) 932-7858 to coordinate delivery. The Compact Excavator shall be delivered fully fueled and operational.

8. MANUALS AND INSTRUCTIONS

The Contractor shall provide the University with TWO (2) each of operator's instruction manuals, illustrated parts list, and workshop shop (maintenance) manuals for the Compact Excavator and custom options furnished under this contract.

9. MAINTENANCE

Maintenance and spare parts shall be available locally. All maintenance services must be prompt and effective and shall be performed by qualified servicemen.

10. WARRANTY

The Compact Excavator and compatible options being furnished shall be new and as specified. The Contractor shall warrant that all workmanship and materials of equipment furnished under this contract shall be guaranteed for a period as designated in the Technical Specifications from the date of acceptance. The Contractor shall replace and/or repair any defective workmanship and/or materials at no cost to the University during the period of warranty, provided such defects are not due to abuse or negligence on the part of the University. Warranty shall include all travel and related costs.

11. AVAILABILITY OF FUNDS

An award shall be contingent upon the availability of funds, and any solicitation shall be subject to cancellation by the UNIVERSITY at any time if funds are unavailable.

12. PAYMENT

The Contractor shall be remunerated upon satisfactory delivery/acceptance of goods and submission of a properly executed original invoice and ONE (1) copy, indicating the contract number, to University of Hawai'i at Hilo, Contracts and Payments Office, 200 West Kawili Street, Hilo, Hawai'i 96720.