

SEALED OFFERS

INVITATION FOR BID

Excavator with Compatible Mulching Head Attachment

FOR

DEPARTMENT OF LAND AND NATURAL RESOURCES

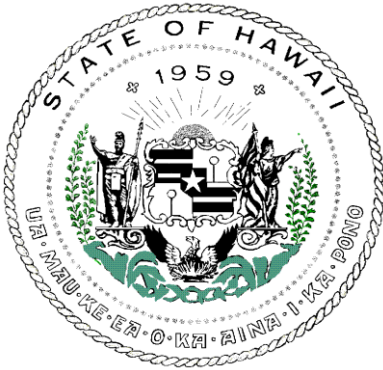
DIVISION OF FORESTRY AND WILDLIFE

MAUI DISTRICT

HiPRO IFB

B23000890

NOTICE TO ALL OFFERORS



STATE DEPARTMENT OF LAND AND NATURAL RESOURCES

INVITATION FOR BIDS HiePRO IFB B23000890

SEALED OFFERS

Excavator with Compatible Mulching Head Attachment

FOR
DEPARTMENT OF LAND AND NATURAL RESOURCES,
DIVISION OF FORESTRY AND WILDLIFE
MAUI DISTRICT

WILL BE RECEIVED UP TO AND OPENED AT 4:00 P.M. (HST) ON

NOVEMBER 15, 2022

THROUGH THE STATE OF HAWAII ELECTRONIC PROCUREMENT SYSTEM (HIEPRO).

EXCAVATOR SPECIFICATIONS
DIVISION OF FORESTRY AND WILDLIFE – MAUI BRANCH

One (1), New Excavator with compatible mulching head attachment, delivered FOB to State of Hawaii, Division of Forestry and Wildlife, 685 Haleakala Hwy, Kahului, HI 96732. The Contractor shall present the Excavator with necessary equipment complete, ready to use, and fully operational, as specified.

EXCAVATOR – The specifications contained herein establishes minimum standards for the Excavator. Equipment offered shall include other features not listed but detailed in manufacturer’s brochures and deemed necessary for proper and safe operation of equipment.

1. Model/Year: 2022 model or newer. **CAT 315, Komatsu PC138USLC-11, John Deere 135 G** or approved equal; latest production. Please see Pre-approval requirement on page 5.
2. Weight: Operating weight shall be 33,000 lbs. minimum.
3. Tail Swing Radius: Maximum radius 62” for working in restricted lane space.
4. Buckets and Thumb: Operating bucket shall be 42 in. width, with rated capacity of .99 cu. Yd. with thumb; spare bucket shall be 30 in. width with rated capacity of 0.64 cu. Yd. with thumb minimum. Buckets shall be furnished with cutting edge and replaceable teeth (detachable).
5. Push Blade: Equipment shall be equipped with 8’6” wide mounted on main “X” frame.
6. Engine:
 - a. Net power of 97 hp minimum at the flywheel when engine equipped with fan, air cleaner, muffler and alternator.
 - b. Shall be 4-cylinder, 4-cycle diesel powered, water-cooled, direct injection, turbocharged and air cooled, minimum.
 - c. Compliant to current EPA Tier 4 standards.
 - d. Provide Electronic Control Module system with sensors, to monitor and adjust the engine rpm, fuel consumption, air, coolant, and exhaust systems. Electronic Control Display shall be located in operator’s cab.
 - e. Air filter, dry type cleaner with replaceable filter, minimum.
 - f. Radiator, heavy duty, reduce-dust type
 - g. Engine operating system shall be equipped with alarms for high temperature; low lube oil pressure; hydraulic pump pressure. Operating system with alarm shall be located in operator’s cab.
 - h. Daily service for oil dipstick, fuel, hydraulic oil, oil filter, air filter, fuel filter, fuel/water separator and greasing points shall be accessible from ground level.
7. Hydraulic System:
 - a. System Design: Manufacturer’s design to meet the required (full time) total main pump flow and the required pressure for the proper and safe operation of the excavator; operating with bucket and thumb, or a hydraulic hammer, or tree mulcher.
 - b. Hydraulic Pump(s): Manufacturer’s required pressure for the proper and safe operation of each attachment. One or two hydraulic motors shall be required to meet the hydraulic flow (gpm) and pressure (psi) for the proper and safe operation of the excavator with attachment. Certification shall be provided with bid proposal showing actual hydraulic operating maximum flow (gpm) and maximum pressure (psi) for each

attachment in operation. Failure to submit certification will be sufficient grounds for non-acceptance of bid proposal.

- c. All buckets with thumb and a tree mulcher attachment shall have the proper operation; hydraulic pressure to meet the manufacturer's specifications for proper and safe operation. All attachments shall have a quick connect/disconnect hydraulic coupling.
 - d. All hydraulic pump(s), control valves, anti-drift valves, and cylinders shall be from the same manufacturer of the excavator with a minimum three (3) years unlimited warranty.
 - e. Hydraulic Oil Filtration: One (1) 10-micron full-flow return filter; inline pressure filters with switch bypass, minimum.
8. Swing System:
- a. Speed shall be not less than 11.0 RPM.
 - b. Torque shall be not less than 21,627 lb./ft.
 - c. Swing brake. Manufacturer standard.
9. Undercarriage:
- a. Each track; width 24 in. with triple grouser shoes/pads minimum.
 - b. Sealed and lubricated track rollers, carrier rollers, and idlers required.
 - c. Two (2) carrier rollers minimum, for each track.
 - d. Eight (8) track rollers minimum, for each track.
 - e. Track length 152 in. maximum. With hydraulic track adjuster.
 - f. Travel speeds - High 3.2 mph, Low 1.8 mph minimum.
 - g. Drawbar pull 24,729 lbs. minimum.
 - h. Ground Pressure: 5.49 maximum for operating weight.
 - i. Ground Clearance: 16 in. minimum.
10. Boom/Arm Combination with operating bucket and power boost:
- a. Arm length: 98 in. maximum.
 - b. Cutting height: 168 in. maximum.
 - c. Dumping height: 251 in. maximum.
 - d. Digging depth: 216 in. maximum.
 - e. Vertical wall digging depth 193 in. maximum.
 - f. Arm force (ISO Rating): 13,330 lbs. minimum.
 - g. Bucket digging force (ISO Rating): 20,000 minimum.
 - h. Two (2) halogen type working lights.
 - i. Hydraulic Coupler mounted for rapid change over of (work tools) attachments.
 - j. Hydraulic piping – Attachment Management System Programmable Quick coupling piping and hydraulic couplers.
11. Cab:
- a. Closed cab with integrated ROPS meeting OSHA requirements.
 - b. Cab mounted on viscous damping mounts to reduce vibration and noise (low noise design).
 - c. Roof skylight to easily communicate with people at work site.
 - d. Front, rear and side and shall be tinted polycarbonate/lexan safety type. Shall have cab falling object protective guard and structure safety net for front window.

- e. Factory air condition climate control with air intake system. Heater and defroster provided for front window.
 - f. Inner rear-view mirror. Two (2) outer rear-view mirrors.
 - g. Operator's seat: deluxe suspension, lumbar support, adjustable, backrest, armrests and 3-inch-wide seat belt. Sun visors/sunscreens; floor mat, twelve (12) volt power supply outlet.
 - h. Shall be equipped with a horn; travel alarm; reverse warning alarm; two (2) back-up lights mounted at top rear of excavator; two (2) work lights mounted at top of cab; intermittent windshield wiper/washer.
 - i. Shall be equipped with multi-position controls to allow the operator to work in comfort for maximum productivity. All switches and controls shall be within reach of operator in seat.
 - j. Electronic control for various work modes to match engine speed, pump speed and system pressure. Operator controls to adjust/match specific speed and pressure for all attachment's productivity.
12. Tree Mulcher Unit: FECON Mulcher CEM36, latest production, or equal.
- a. Tree mulcher shall be mounted in line with stick and boom of excavator which provides for a 90-degree attachment to the stick. Mount shall be by quick coupler and coupling. All operating controls shall be in easy reach of the operator.
 - b. Capable of mulching up to 6 in. diameter material.
 - c. Working width shall be a minimum of 36 in.
 - d. Operating weight shall be within manufacturers (both excavator and mulcher) specification for proper and safe operation.
 - e. Tree mulcher shall include all materials and attachments necessary to meet manufacturers (both excavator and mulcher) specifications for proper and safe operation.
13. Other:
- a. Complete vandalism protection package for all doors and service points and to be keyed alike.
 - b. SMV emblem.
 - c. Toolbox 6 in. x 6 in. x 16 in., with accessory tray mounted and lockable (coordinate mounting with user). Tool kit for pre-inspection and refillable grease gun.
 - d. Two (2) L360 Super LED Beacons (Whelen Model L32LAF4 or equal) including limbguard, mounted on top of cab. Wire to model LSK lighted switch kit or equal.
 - e. One (1) 10 lbs. ABC dry chemical fire extinguisher (metal nozzle type), mounted on bracket in cab.
 - f. Dome light in cab.
 - g. Electric starter (heavy duty).
 - h. Fixed drawbar and pin.
 - i. First Service Kit to include all manufacturer required filters (oil, fuel, air, etc.)
 - j. Two (2) copies each of owner/operator manual, service/repair manual, and parts manual (to include all attachments). List of factory trained and authorized personnel who will provide service for excavator and attachments.
 - k. Heavy duty hydraulic oil cooler.

- l. Hydraulic with quick connect/disconnect for use of other tool attachments.
 - m. Manufacturer recommended counterweights for proper balance for use with all attachments.
 - n. Manufacturer's training video for safe operation of equipment and attachments.
 - o. First Aid Kit OSHA/ANSI recommended.
14. Color/Paint:
- a. The excavator and all attachments shall be painted with Federal Safety School Bus Yellow.
 - b. Excavator boom sides and the outer edge of upper structure to be lined with conspicuity materials (red/white reflective or equal).
15. Warranty, Service and Maintenance of Excavator with Attachments:
- a. Vendor receiving equipment award must furnish statement, listing number of factory trained and authorized personnel to install and provide service and maintenance support.
 - b. Vendor must also provide statement identifying items and systems, which require factory authorized personnel to maintain.
 - c. Local warranty, service and maintenance for all components shall be provided on the island of Maui. Warranty period for Excavator and Attachments shall be minimum of three (3) years or 2000 hours, whichever occurs first. Service and maintenance shall be minimum of three (3) years or 2000 hours, whichever occurs first, for the Excavator and each Attachment. Warranty, service and maintenance work, including labor and parts, shall be provided at no additional cost to the State for a period of three (3) years or 2000 hours, whichever occurs first, after the acceptance of this equipment.
 - d. Maintenance Intervals to be done at 500/1000/1500/2000 hours at no additional cost to the State. Maintenance Interval includes: Replacement of Oils & Fluid Filters with genuine OEM parts, 50-Point Inspection, Oil and Wear Analysis Sampling.
16. Training: Bidder shall provide manufacturer training syllabus at time of bid submittal.

Contractor shall provide manufacturer's training for proper and safe operation, maintenance of equipment and all attachments. This training shall include a minimum of three (3) days classroom and operator hands on training on the Island of Maui. Training shall be provided at no additional cost to the State. Contractor shall provide classroom site. This training shall be consistent with OSHA requirements. Copy of attendance record showing class date, time, location, class type, instructors name and attendees shall be submitted to:

State of Hawaii, Dept. of Land and Natural Resources
Division of Forestry and Wildlife – Maui Branch
Attn: Lance De Silva – Forest Management Supervisor
685 Haleakala Hwy
Kahului, HI 96732

Specification Contact:

Lance De Silva

Lance.K.DeSilva@hawaii.gov

808-873-3980

Pre-approval requirement:

If your offer is not one of the three brands/models listed, it must be pre-approved to qualify for selection.

Please email product brochure and specification sheet to Specification Contact by 1:00PM Hawaii Standard Time on November 7, 2022.

State of Hawaii reserves the rights to disqualify any offer that does not meet this requirement.