



REVERSE AUCTION INFORMATION

Notice is hereby given the City Brandon, Mississippi will receive sealed bids in the following manner for **one (1) small size excavator**.

Technical bid proposals will be accepted until 5:00 on February 13, 2023 in a sealed envelope at the City Clerk's Office located at 1000 Municipal Drive, Brandon, Mississippi 39042 or by electronic submission to Central Bidding www.centralbidding.com.

Submissions will be evaluated and vendors submitting acceptable offers will be invited to submit priced bids during the Notification of Invitation to Bid on Tuesday, February 21, 2023.

Bidding will be held by reverse auction at 10:00 a.m. on Tuesday, February 21, 2023. The electronic reverse auction will last thirty minutes and is scheduled to end at 10:30 a.m. Electronic reverse auction bids may be submitted at www.centralbidding.com. Please contact Central Bidding at (225)810-4814 if you have any questions relating to the electronic process.

The City reserves the right to reject and or all bids, and to accept any bid deemed to be in the best interest of the City, and to waive informalities.

Bid Spec Sheet	
Compact Hydraulic Excavators	
GENERAL INFORMATION	
The hydraulic excavator must be 2022 or newer year current production track mounted model.	
Unit must have less than 176 hours.	
It shall have all standard equipment as shown in the manufacturer's printed literature.	
Modifications of existing models to meet these specifications will not be permitted.	
BASIC SPECIFICATIONS	
Operating weight shall be at least 19,224 lb. (8720 kg) equipped with a 3405 mm 11'2" one-piece swing style boom, 2100 mm 6'11" arm, SAE heaped 0.26 cubic yard bucket (0.2 cubic meter), rated capacity of lubricants, coolant, full fuel tank, operator, 450mm 18" roadliner shoes, and standard equipment.	
The excavator arm shall have a thumb bracket installed.	
Unit must have Hydraulic Thumb installed.	
Unit must have Hydraulic Coupler installed.	
Unit must have 24" Excavating Bucket.	
Unit must have 48" Ditching Bucket.	
Lift capacity at 10' (3 m) over the front at ground level with blade on ground shall be not less than 9,340 lb. (4 230 kg). Equipped with a 2100 mm (6'11" stick), 450mm roadliner pads,	
Lift capacity at 10' (3 m) over the side at ground level with blade on ground shall be not less than 5,360 lb. (2 430 kg). Equipped with a 2100 mm (6'11" stick), 450mm roadliner pads,	
Machine shall have a ground clearance of at least 1'4" (410 mm).	
Shipping height shall be no more than 9'0" (2740) mm) with a 6'11" (2100 mm) stick and road liner track shoes	
Shipping length shall be 21'1" (6430 mm) with a 6'11" (2100 mm) stick.	
Tail swing radius shall be 4'10" (1485 mm)	
Track length shall be 9'6" (2890 mm) with road liner shoes	
Transport width shall be 7'8" (2330 mm) equipped with 450 mm track	
A 2330mm 7'7" blade will be included as standard equipment	
A rearview monitoring system including a camera will be included as standard	
A pattern change valve will be included as standard	
ENGINE SPECIFICATIONS	
The engine shall be manufactured by the equipment manufacturer.	
The engine shall be a turbocharged 4 cycle design with no more than 3 cylinders and 149.5 in ³ (2.45 L) displacement.	
The engine, including engine cooling fan, and all necessary accessories, shall deliver at least 67.9 hp (50.6 kW) at the flywheel (SAE J1349 rated).	
Standard equipment to include an air cleaner with automatic dust ejector, water pump, fuel pump with hand primer, muffler with diesel oxidation catalyst and lubricating oil pump.	
The engine shall meet the US EPA Tier 4 Final exhaust emission certification and use a diesel oxidation catalyst with no diesel particulate filter.	
An engine cooling fan guard must be installed.	
Engine shall be direct injection with electronically controlled common rail injection system.	
Rated power shall be 1850 rpm.	
Machine shall be equipped with 24-volt electrical starting and operating system.	
The alternator shall be a minimum of 60 amps, 24V.	
The engine should be equipped with a viscous fan clutch	
Fuel tank capacity shall be no less than 33 gal (125 L) and include a filler neck strainer.	
The engine shall be equipped with a grid heater as a starting aid in cold weather.	
The engine shall be equipped with a 24 volt starting and charging system.	
Auto Idle shutdown system shall provide a method for shutting down engine when unit is left to idle for extended amounts of time and the shutdown time interval must be adjustable.	
UNDERCARRIAGE	
Grease lubricated seals shall protect the track link	
Machine shall have a maximum ISO 167540 ground pressure of 5.54 psi (38.2 kPa) with 450 mm roadliner shoes.	

Each track shall be driven by one independent, axial-piston motor via integral planetary final drives.	
Machine shall have a max travel speed of 3.1 mph / 5.0 kph.	
Machine shall have 5 track rollers and 1 carrier rollers.	
Track tension shall be grease adjusted.	
An audible alarm shall indicate when machine travel is engaged.	
The travel system shall be fully hydrostatic with 2 speed settings.	
The machine shall have a drawbar pull of 15,309 lbs. (68.1 kN)	
HYDRAULIC SYSTEM	
Hydraulic system for boom, arm, bucket and travel circuits shall be a closed-center system with load sensing valves, pressure compensated valves and variable displacement hydraulic pump.	
Hydraulic system for boom, arm, bucket and travel circuits shall have a flow of 42.2 gal/min (160 L/min).	
Blade hydraulic system should use a separate gear pump with a flow of 17.0 gal/min (63 L/min) hydraulic flow.	
Unit must have Auxiliary Hydraulics.	
Pilot system pressure shall be achieved by pressure reducing valves.	
Maximum pressure for the implement circuit shall be at least 3,844 psi (26.5 MPa)	
Maximum pressure for the swing circuit shall be at least 3,060 psi (21.1 MPa)	
The machine shall have a standard lock lever, which deactivates the hydraulic function and prevents implement movement when lever is in the free position.	
SWING SYSTEM	
The swing system drive shall be powered by a variable displacement hydraulic pump.	
Swing effort shall be provided to the upper structure by a hydraulic motor through planetary gearing.	
The holding brake shall be a mechanical lock disc brake released by pilot pressure.	
The swing speed shall be at least 10.0 rpm.	
OPERATOR CAB	
The operator compartment shall protect the operator from the environment and be ISO 12117-2 ROPS compliant	
The radio should be Bluetooth type	
The front windshield shall be mounted on tracks and be able to be raised up into a secure position in the cab ceiling by the operator in order to provide improved visibility forward and down.	
The boom/arm/bucket/swing/track hydraulic controls shall use pilot-operated controls for low-effort, smooth modulation.	
The attachment hydraulic system shall be controlled by proportional controlled joy stick handles.	
The seat shall have a high back rest and be fully adjustable for height, weight, fore/aft, seat back, and armrests.	
The cab shall utilize a 7" high resolution LED color monitor panel with at least 27 language options.	
The cab shall have a standard lock lever that does not allow for travel, blade, swing or boom articulation while in locked position.	
Machine shall have a skylight that can be opened and cab is rated to OPG-1	
Monitor panel shall have a wide angle lens camera positioned to see behind the counterweight.	
Monitor panel shall have 6 working modes for implement system.	
Any system abnormalities detected shall be displayed on a high resolution LED monitor.	
Automatic climate control that maintains a constant temperature setting shall be available as standard equipment.	
WORK EQUIPMENT	
Unit must have Hydraulic Thumb installed.	
Unit must have Hydraulic Coupler installed.	
Unit must have 24" Excavating Bucket.	
Unit must have 48" Ditching Bucket.	

The boom shall be a swing boom style capable of pivoting at least 120 degrees total left/right.	
The work equipment shall contain full castings on the boom foot, boom tip, and bucket linkage for uniform toughness and strength.	
Maximum reach at ground level shall be at least 24'1" (7345 mm) with a 6'11" (2100 mm) stick.	
Maximum dumping height shall be at least 15'8" (4770 mm) with a 6' 11" (2100 mm) stick.	
Maximum depth for 8' level bottom trench shall be 13'9" (4200 mm)	
Bucket digging force (SAE) shall not be less than 11,982 lb. (5440 kgf) with a 6' 11" (2100 mm) stick.	
Stick digging force (SAE) shall not be less than 7,710 lb. (3500 kgf) with a 6' 11" (2100 mm) stick.	
AUTO LEVER-LOCK Feature shall stop pilot oil flow when pilot control activation is detected within 0.5 seconds of operating Lever Lock.	
SERVICEABILITY	
The hydraulic tank shall have an oil level sight gauge that allows checking the fluid level without removing the filler cap.	
A cartridge-type hydraulic return filter shall be located inside of the hydraulic tank.	
Fuel filter, engine oil filter, auxiliary hydraulic circuit return oil filter must be grouped together and accessible from ground level for service.	
Fuel level shall be monitored in the high resolution LED monitor	
Service access must have a minimum of 3 service assess doors located at the rear of machine.	
OTHER/GENERAL	
Seat belt must be at least 3.1" (78 mm) in width.	
The Operator Identification system shall offer a way to prevent unauthorized operation.	
Unit must have 5 year or 4000 Hour Powertrain plus Hydraulics Extended Warranty	
The machine should be covered by a manufacturer provided maintenance program providing complementary factory-scheduled maintenance for the first three years or 2,000 hours whichever comes first.	
SERVICE FILL CAPACITY	
The fuel tank shall have a capacity of at least 33.0 gallons (125 L).	
The cooling system shall have a capacity of at least 4.8 gal (18.0 L).	
Engine oil capacity should not exceed 2.7 gal (10.5 L).	
Swing drive shall have a capacity of at least 0.74 gal (2.8 L).	
Each final drive shall have a capacity of at least 0.29 gal (1.1 L).	
Hydraulic tank shall have a capacity of at least 14.8 gal (56 L).	