



REVERSE AUCTION INFORMATION

Notice is hereby given the City Brandon, Mississippi will receive sealed bids in the following manner for **one (1) medium 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 10:30 a.m. on Tuesday, February 21, 2023. The electronic reverse auction will last thirty minutes and is scheduled to end at 11:00 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.

City of Brandon
1000 Municipal Drive, Brandon, MS
601-825-8021

NOTICE OF REQUEST FOR PROPOSALS AND REVERSE AUCTION BIDDING

Per the Mississippi Office of the State Auditor, the City of Brandon, Mississippi (City) is soliciting proposals from qualified companies to provide the City of Brandon Public Works Department with a medium size excavator.

REQUEST FOR PROPOSALS AND REVERSE AUCTION INFORMATION

Proposal and Bid Specifications and Procedures may be obtained by contacting the City Clerk's office located at 1000 Municipal Drive, Brandon, Mississippi or calling 601-825-5021 or www.centralbidding.com.

Unpriced proposals will be accepted until 5:00 PM on Monday, February 13, 2023, by electronic bid submission (specifications and procedures may be downloaded at www.centralbidding.com) or obtained from the City Clerk's Office, 1000 Municipal Drive, Brandon, MS. All proposals must comply with the specifications provided. The City of Brandon reserves the right to amend the specifications, as necessary. Submissions will be evaluated and vendors submitting acceptable proposals will be invited to submit priced bids via reverse auction.

Qualified vendors will be invited to participate in a reverse auction, which will be held on Tuesday, February 21, 2023, beginning at 10:30AM. Electronic bids and/or reverse auction bids may be submitted at www.centralbidding.com. Any questions relating to the electronic process, please call Central Bidding at 225-810-4814.

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

By: Butch Lee, Mayor

By: Angela Bean, City Clerk

Publication Dates: January 25, 2023
February 1, 2023

Bid Spec Sheet	
Hydraulic Excavator Medium Size	
GENERAL INFORMATION	
The hydraulic excavator must be 2022 or newer year current production track mounted model	
Unit must not have more 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	
Minimum published operating weight shall be at least 41,157 lb (18708 kg) equipped with a 5150mm 16'11" one-piece boom, 2610 mm 8'7" arm, SAE heaped 1.24 cubic yard bucket (0.95 cubic meter), rated capacity of lubricants, coolant, full fuel tank, operator, 28" (700mm) triple grouser track shoes, and standard counterweight	
Unit must have Hydraulic Thumb installed	
Unit must have 42" Excavating Bucket	
Lift capacity at 20' (6.1 m) over the front at ground level shall be not less than 10,690 lb (4850 kg). Equipped with a (2900 mm) 9'6" arm, 24" (600mm) triple grouser track shoes, standard counterweight, and no bucket installed	
Lift capacity at 20' (6.1 m) over the side at ground level shall be not less than 6,722 lb (3050 kg). Equipped with a (2900 mm) 9'6" arm, 24" (600mm) triple grouser track shoes, standard counterweight, and no bucket installed	
Machine shall have a published ground clearance of at least 1'5" (440 mm) with triple grouser track shoes	
Maximum published digging depth shall be 20'6" (6250mm) with an 9'6" (2500 mm) arm	
Published transport height shall be 10'4" (3140) mm) with a 9'6" (2900 mm) arm	
Published transport length on ground shall be 15'0" (4565 mm) with a 9'6" (2900 mm) arm	
Published tail swing radius shall be no greater than 8'2" (2500 mm)	
Published track gauge shall be no less than 6'6" (1990 mm)	
Published track length shall be at least 13'0" (3965 mm)	
Published overall width shall be no wider than 8'6" (2590 mm) when equipped with 24" (600 mm) triple grouser track shoes. Track roller frames or walkways shall not be removed or adjusted to achieve maximum overall width	
Machine shall be equipped with full length upper body revolving frame guards (excludes CWGT)	
ENGINE SPECIFICATIONS	
Machine shall have a four cylinder, variable geometry turbo charged / water-cooled diesel engine with cooled exhaust gas recirculation (EGR), Diesel Oxidation Catalyst (DOC), and Selective Catalytic Reduction (SCR) system	
Net engine flywheel power according to SAE J1349 shall be at least 121 hp (88.9 kW)	
Engine displacement shall be at least 272 cubic inches (4.46 L)	
Engine bore shall be 4.21" (107 mm) and stroke shall be 4.88" (124 mm)	
The engine shall be EPA TIER 4 Final emissions certified	
Engine shall have be equipped with a Diesel Oxidation Catalyst (DOC), DEF system and a Selective Catalytic Reduction (SCR) emissions treatment systems	
The Diesel Exhaust Fluid (DEF) system shall have electrically heated DEF lines, DEF pump and engine coolant heated DEF tank with thermostatically controlled coolant valve	
The DEF system shall have an automatic thawing system that purges DEF lines automatically at engine shut down	
DEF consumption shall be no greater than 3% of fuel consumption during a normal 40-60% working cycle	
The engine shall be direct injection with electronically controlled common rail injection system	
The engine shall be equipped with a viscous fan clutch	
The engine shall be equipped with a 24 volt starting and charging system	
An engine air pre-filter shall be available as standard equipment	
Fuel filter shall be rated to 2 micron filtration and have standard water separator	
DRIVE SYSTEM / UNDERCARRIAGE	
Machine shall have a maximum published ground pressure of 6.56 psi (0.46kg/cm2) with 28" (700mm) shoes per ISO standard 16754	
Track links shall be grease lubricated	
Each track shall be driven by one independent, axial-piston motor via integral planetary final drive	
Machine shall have a max travel speed of 3.4 mph / 5.5 kph	
An audible travel alarm shall indicate when machine travel is engaged	
The transmission shall be fully hydrostatic with 2 travel speed settings	
Machine shall have 7 track rollers and 2 carrier rollers	
Track tension shall be hydraulically adjusted	
The machine shall have a minimum drawbar pull of 35,164 lbs (156kN 15950kg)	

Bid Spec Sheet	
Hydraulic Excavator Medium Size	
HYDRAULIC SYSTEM	
Hydraulic system shall be a closed-center system with load sensing and pressure compensated valves	
Unit must have Auxiliary Hydraulics.	
The hydraulic system shall contain O-ring face seals	
Hydraulic system shall have a maximum flow of at least 78.7 gal/min (298 L/min)	
Pilot system pressure shall be achieved by pressure reducing valves and not use a gear pump	
Maximum pressure for the implement circuit shall be at least 5,400 psi (37.3 MPa)	
Maximum pressure for the travel circuit shall be at least 5,400 psi (37.3 MPa)	
Maximum pressure for the swing circuit shall be at least 4,190 psi (28.9 MPa)	
The machine shall have a standard hydraulic control lock lever that deactivates travel, swing, boom, arm and bucket functions and prevents start-up when in the locked position	
The main hydraulic system shall operate with a single, variable displacement, load sensing, axial-piston pump	
The backhoe boom and arm shall be equipped with load holding valves	
The hydraulic system shall include a pattern change valve for switching between excavator and backhoe control patterns	
SWING SYSTEM	
Swing effort shall be provided to the upper structure by a hydraulic motor through double reduction planetary gearing	
The swing system shall have a minimum swing torque of 31,314 ft-lbs (4331 kg-m)	
The holding brake shall be a mechanical lock disc brake released by pilot pressure	
The swing speed shall be at least 12.0 rpm	
OPERATOR CAB	
The operator compartment shall protect the operator from the environment and shall have an integrated ROPS design meeting ISO 12117-2 and also meet OPG top guard Level 1 requirements	
Machine shall have a skylight that can be opened and is rated for OPG level 1 requirements	
The operator compartment shall be equipped with an A/C system with automatic climate control and a cabin air filter to maintain positive internal cab pressure	
The front windshield shall be mounted on tracks and be able to be swung up into a secure position in the cab ceiling by the operator to provide improved visibility forward and down	
The hydraulic implement system shall use pilot-operated controls for smooth modulation	
The cab shall be mounted on multi-layer viscous cab mounts for comfort and noise reduction	
An air-suspension heated seat shall be standard and have a high reclining back rest and be fully adjustable for height, weight, fore/aft, seat back, and armrests. The seat and console shall move as an integrated unit	
The operator seat should include retractable 3-inch seat belts with a seat belt warning indicator integrated into the display monitor	
The cab shall utilize a landscape display orientation with 7" Thin Film Transistor (TFT) LCD monitor panel with 33 language options. The monitor is to include indicators for DEF level, auto-decelerator, working modes, travel speeds, engine water temperature gauge, hydraulic oil temperature gauge, fuel gauge, ECO gauge, fuel consumption display, and low DEF level	
Machine shall be equipped with a standard rear view monitoring system with wide angle lens camera positioned to see the work area behind the counterweight. Monitor panel shall be capable of providing rear camera display and key machine status information at same time	
Monitor panel shall have 6 working modes for implement system	
Any system abnormalities detected shall be displayed on the LCD monitor	
The machine shall have an automatic climate control that maintains a constant temperature setting as standard equipment	
The cab shall have an AM/FM radio and a 3.5 mm auxiliary input jack for connecting an MP3 player or other device	
The cab shall contain 2 speakers for audio playback	
The cab shall have a ground level access secondary engine shut off switch	

Bid Spec Sheet	
Hydraulic Excavator Medium Size	
WORK EQUIPMENT	
Unit must have Hydraulic Thumb installed.	
Unit must have 42" Excavating Bucket.	
The work equipment shall contain full high strength steel castings on the boom foot, boom tip, arm tip and bucket linkage for uniform added toughness and strength	
The boom shall include full length top and bottom plates without transverse welds	
Maximum reach at ground level shall be at least 29'9" (9075 mm) with a 9'6" (2900 mm) arm	
Maximum dumping height shall be at least 21'5" (6525 mm) with a 9'6" (2900 mm) arm	
Bucket digging force (ISO) shall not be less than 27,651lb (123 Kn/12500Kg) with a 9'6" (2900 mm) arm	
Arm digging force (ISO) shall not be less than 17,849 lb (79.4 Kn/8100Kg) with a 9'6" (2900 mm) arm	
When equipped with auxiliary hydraulics, circuit shall have return filter and one way flow accumulator	
SERVICEABILITY	
The hydraulic tank shall have a sight gauge that allows checking of fluid level without removing the filler cap	
Fuel level and DEF level shall be monitored in the LCD Monitor	
DEF tank shall also have sight glass to check fill level	
DEF pump and filter must be remote mounted away from the tank and be accessible by means not requiring hand tools	
A cartridge-type hydraulic return filter shall be located outside of the hydraulic tank for easy service and to avoid system contamination with a replacement interval of 1,000 hr	
Skid resistant material or equivalent shall cover the normal walking surface of the machine's upper structure	
A master battery disconnect switch must be installed	
Machine must be equipped with a secondary ground level engine shut-down switch	
The monitor panel will display lights to inform the operator when the machine approaches or exceeds the oil and filtration replacement interval	
All work equipment bushing lubrication intervals except arm tip and bucket linkage to be no less than 500 hr	
The machine shall include a manufacturer authorized complimentary scheduled maintenance program for the first 3 years or 2,000 hours, whichever occurs first	
GENERAL/OTHER	
Unit must have 5 year or 4000 Hour Powertrain plus Hydraulics Extended Warranty.	
The electric harnesses and connectors must be fixed to the structural members of the machine body	
An engine cooling fan guard must be installed	
Machine shall have hand rails on the right hand and left hand side of the upper structure The right side must also have an access hand rail	
The machine shall include a manufacturer designed telematics system with equipment management and monitoring capability, maintenance tracking, abnormality display with error codes, diagnostics, fuel consumption and machine location. Information shall be accessible through the web or a smart phone application and be provided without a subscription fee for life of machine	
Machine should be capable of recording and reporting key operation information by individual operator identification codes	
The electrical system shall include a 24V to 12V converter with no fewer than 2 12V power ports in the cab	
A track frame undercover (swivel guard) shall be provided	
The machine shall be equipped with an electric travel alarm and warning horn	
SERVICE FILL CAPACITY	
The fuel tank shall have a capacity of at least 79.25 gallons (300 L)	
The cooling system shall have a refill capacity of at least 7.2 gal (27.3 L)	
Engine oil shall have a refill capacity of at least 4.8 gal (18 L)	
Swing drive shall have a refill capacity of at least 1.2 gal (4.5 L)	
Each final drive shall have a capacity of at least 1.43 gal (5.4 L)	
DEF fluid shall have a capacity of at least 7.82 gal (29.6 L)	
DEF tank must have enough fluid capacity to operate on a 70% (35°) slope with less than 5% DEF volume	
Hydraulic tank shall have a refill capacity of at least 32.0 gal (121 L)	