



## INVITATION TO BID

### BID #2010-29 PURCHASE OF MINI EXCAVATOR

The City of Edinburg, Texas is soliciting sealed separate bids for the above referenced as requested by the Utility Department. The bid shall be received no later than **3:00 p.m., Monday, December 28, 2009**. Any bid received after the time set for opening will be returned to bidder unopened. Bidder(s) must provide an original and shall be addressed to:

CITY OF EDINBURG  
C/O CITY SECRETARY  
415 W. UNIVERSITY DRIVE  
P.O. BOX 1079  
EDINBURG, TEXAS 78540-1079

**Bids must be submitted in an envelope sealed with tape and prominently marked on the lower left hand corner of the bid envelope with corresponding bid number and title.** All bids will be opened and publicly read aloud at the above designated time at the City of Edinburg (New City Hall) Conference Room, 1<sup>st</sup> Floor, located at 415 W. University Drive, Edinburg, Texas. Bids sent via facsimile shall not be accepted.

The City of Edinburg reserves the right to accept or reject bids submitted, waive formalities in bidding, accept the bid deemed most advantageous to the City of Edinburg, and to hold the bids for a period of ninety (90) days without taking action thereon. If you have any questions or require additional information regarding this bid, please contact Mr. Juan J. Flores, Systems Superintendent, at (956) 388-8212.

**If you choose not to submit a bid and would like to remain on the City of Edinburg bidder's list for future bids, you must respond in writing.**

Sincerely,

Lorena Fuentes, Purchasing Agent





**GENERAL CONDITIONS & INSTRUCTIONS – READ CAREFULLY**

1. The bids must be submitted on this form only.
2. The City reserves the right to accept or reject any or all bids, waive formalities, and accept the bid deemed most advantageous to the City.
3. The City reserves the right to award the bid to the lowest responsible bidder.
4. Prices must be itemized.
5. All quotations must be F.O.B. Edinburg and include all costs for delivery and packaging.

Delivery time shall be specified by the bidder. Failure to state a firm delivery date will make an incomplete bid. Delivery time will be one of the determining factors in selecting the best bid. However, if the delivery time is not met when stated, upon notification of the same, the City may allow a ten-day grace period for delivery. If delivery is not met after the ten-day grace period allowed, the City of Edinburg reserves the right to completely cancel order and to revoke and render void the purchase order previously issued for same.

6. In cases of discrepancy between the unit price and the extension, the unit price will be taken.
7. All bids must be signed by an authorized representative.
8. Envelope containing this bid **must** be marked with **Bid No. and Bid Title** from Page 1 and sealed with tape.
9. Bid guarantee (if applicable) must be submitted with bid.
10. Any bid received after the time set for opening will be returned to bidder unopened.
11. This bid tabulation shall constitute a binding contract subject to acceptance by the City.
12. Special reference is made to bid specifications (if attached) for other conditions and instructions.
13. Failure to adhere or comply with the above general conditions and instructions will cause the bid to be rejected.
14. Bidders are advised that in addition to local bids received, the City participates in Texas Cooperatives that comply with the bidding requirements of the State of Texas; therefore, the City will include State Cooperative pricing to determine the selection of bid award that is most advantageous to the City.
15. No citizen or business shall be qualified to submit competitive bids for city purchases or improvements if it has a substantial delinquency to the City, including taxes, utility bills, or rental obligations, or has pending litigation against the City.

In compliance with the invitation for bid, and subject to all conditions thereof, the undersigned offers, and agrees, if this bid be accepted within 90 days from **time of closing**, to furnish any or all of the items or render such services upon which prices are quoted in accordance with the bid specifications applying, and at the price set opposite each item.

For bid inquiries, please call the Purchasing Agent at (956) 388-1895, Ext. 8972.

DATE: \_\_\_\_\_

BID PRICE: \_\_\_\_\_

DELIVERY DATE: \_\_\_\_\_

BIDDER NAME: \_\_\_\_\_

AUTHORIZED SIGNATURE: \_\_\_\_\_

TITLE: \_\_\_\_\_

MAILING ADDRESS: \_\_\_\_\_

TELEPHONE NO.: \_\_\_\_\_

E-MAIL ADDRESS: \_\_\_\_\_

FEDERAL ID #: \_\_\_\_\_

# 15 HORSEPOWER – 3,200 POUND ZERO TAIL SWING RADIUS RUBBER TRACK EXCAVATOR W/ BLADE SPECIFICATIONS AND QUESTIONNAIRE

The following specifications describe the **minimum** requirements to establish a performance basis for a hydraulic crawler excavator. The equipment bid shall be new, identifying equipment manufactured the same year or succeeding year of the bid, of a current design and production model, and available to the commercial market. Any additions, deletions or variations from the following specifications must be noted, or the bid will be rejected. Standard items appearing in the manufacturer's published specifications furnished by the bidder shall be included in the bid unless otherwise noted. One copy of the manufacturer's published specification shall be included with the bid.

The following information will help to design a government or public utility bid requirement for **3,200-pound hydraulic, rubber track excavator with blade.**

## General

The hydraulic track excavator shall be a regular production model for which published specifications are available.

Machine modifications to meet the operational requirements of this specification shall be limited to the manufacturer's published standard and optional equipment.

All operating specifications are based on current SAE standards and shall be the basis for determining compliance with specified requirements.

The hydraulic track excavator shall have a 15 net horsepower diesel engine and a 7-foot dig depth with standard excavator arm.

The hydraulic track excavator shall have a minimum operating weight of 3,240 pounds.

The hydraulic track excavator shall meet all OSHA and EPA requirements in effect on the date of bid opening and shall have lead free paint.

## Engine

The engine shall be a 3-cylinder, diesel engine. The engine shall also have a minimum of 15 SAE net horsepower at 2,200 RPM. The engine shall produce a minimum torque of 39 ft.lbs at 1,800 RPM per SAE J1349.

The engine also shall have the following:

- Single stage air cleaner
- 12-volt electrical system
- Minimum 20-amp alternator
- In-line fuel filter
- Pusher style fan design minimizing debris accumulation
- Emission approved engine

## Hydraulic System

The excavator shall have a hydraulic system with a minimum of two variable displacement, axial piston pumps that provide a minimum combined flow of 8.5 gallons per minute. The system relief pressure will be a maximum of 3,133 psi.

The hydraulics also shall have the following:

- Auxiliary valve section as standard equipment
- Pilot control oil supply provided by a separate pump
- Hydraulic system with pilot-operated controls for the boom, stick, bucket, swing, and travel
- External hydraulic oil cooler
- Hydraulic reservoir sight gauge level indicator

## Controls

The excavator shall have low effort and easy-to-operate controls.

The excavator also shall provide the following:

- Minimum swing speed of 10.7 revolutions per minute
- Two-speed travel w/ selectable control
- Pilot operated hand controls and foot pedals
- 100% swing brake to hold the upper structure when engine is off
- Factory Standard – Control pattern selector valve (SAE or TLB control pattern)

## Undercarriage

The excavator undercarriage shall have an overall length of 5 feet 1 inches of track, and the overall width shall be a maximum of 2 feet 11 inches with 9-inch rubber tracks in the retract position.

The excavator also shall have the following features:

- Each track frame supported by a minimum of 3 bottom rollers
- Permanently lubricated rollers
- Travel motors encased within the frame
- Minimum 2 speed axial piston design travel motors with manual speed load control
- Minimum travel speed of 2.4MPH
- The track tension maintained by a hydraulic track adjustment cylinder
- The tracks shall hydraulically expand from 39 inches to 52 inches from the operators platform
- Outer flange undercarriage rollers for greater durability
- Track frame shall be of asymmetrical design offering greater strength and easier track cleaning
- Gradeability of 58%
- Heavy duty hydraulically controlled dozer blade
- Heavy plate guard to protect the dozer blade cylinder from falling objects and blade overflow
- Maximum dozer blade height of 9.8 inches
- Maximum ground pressure of 3.98 psi

## Operator Environment

The excavator platform shall be the width of the machine and accessible from both sides.

The platform also shall have the following features:

- ROPS / FOPS certified three (3) post canopy standard
- ROPS / FOPS support mounts liquid filled to minimize vibrations
- Deluxe adjustable seat w/ seat belt
- Adjustable arm rests for optimum operator comfort
- Left or Right arm rest in the up position that locks out the pilot controls
- Safety gate on the left and right side of the operator that must be lowered to activate the hydraulic pilot controls
- Maximum exterior noise level rating of 78 dBA

The system and display will notify the operator of the following conditions:

- Emergency stop
- Low fuel level
- Air filter condition
- Low oil pressure
- Overheat for the engine temperature
- Alternator

## Dimensions

The excavator shall be easy to maneuver and transport.

The excavator shall include the following:

- Maximum overall transport height of 7 feet 3 inches w/ ROPS
- Maximum overall transport length of 10 feet 11 inches
- Maximum overall transport width of 2 feet 11 inches (track expanded)
- Maximum tail swing radius of 0 feet 0 inches
- Minimum upper structure ground clearance of 1 feet 5 inches
- Minimum ground clearance of 7 inches

## Performance (Standard Stick)

The excavator performance shall provide the following specifications:

- Minimum dig radius at ground line of 12 feet 4 inch
- Maximum dig depth of 7 feet 0 inches
- Minimum dump height of 8 feet 8 inches
- Minimum vertical straight wall dig depth of 5 feet 5 inches
- Minimum arm digging force of 2,248 pounds force
- Minimum bucket digging force of 3,417 pounds force
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## Boom and Bucket

The excavator shall have a heavy-duty 12-inch bucket with a minimum 1.0 cubic foot capacity.

The boom and/or bucket also shall have the following:

- Bucket attachment pin includes an integrated shim minimizing clatter
- Boom shall swing a minimum of 80° left and 50° right for ease of working in tight spaces
- Boom shall be of a center swing design
- Boom cylinder shall have a protective guard to minimize damage to the cylinder rod

## **Serviceability**

The excavator shall be serviced from the ground level.

The wheel loader service also shall include the following:

- Centralized daily service points for quick / easy maintenance checks
- Steel swing out side panels for easy accessibility
- Engine exhaust directed out lower rear of machine minimizing exhaust gases near operator
- 2.4-gallon hydraulic tank refill capacity
- 4.0-gallon total hydraulic system capacity
- 0.92-gallon engine oil with filter change capacity
- 5.8-gallon fuel tank capacity
- 0.98-gallon radiator capacity

## **Warranty**

The track excavator warranty shall include the following:

- Minimum base warranty of one (1) year or 1,000 hours
- Optional extended warranty for Full Machine
- Optional extended warranty for Powertrain Only