

Request for Bid Form

Reference Number: 7222019

**REQUEST FOR BID FORM**

The request for bid form shall be used when the purchasing agent decides it is necessary. The bid number (7222019) shall be the number assigned to the firm or individual to which the request for bid is forwarded.

TOWN OF OLIVER SPRINGS, TENNESSEE  
Request for Bid  
**Bobcat**  
**E55 Compact Excavator**

**IMPORTANT: THIS IS NOT AN ORDER**

Sealed bids will be received until 11:00 a.m., August 14<sup>th</sup> 2019, in the office of the City Manager and will be opened the same day at 11:00 a.m. at the council chambers.

Bid# \_\_\_\_\_

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

Purchasing Agent: \_\_\_\_\_

Terms: \_\_\_\_\_

Delivery: \_\_\_\_\_

**NO BIDS RECEIVED AFTER CLOSING WILL BE ACCEPTED.**

Quotations are requested for furnishing the items described below in accordance with the terms set forth herein. Failure of a bidder to execute a purchase order or contract awarded as a result of this bid or to comply with any terms or condition therein may disqualify the bidder from receiving future orders. Bidders are cautioned to verify their bids before submission. No bid may be withdrawn or changed after it has been opened. If you do not quote, return this sheet and explain the reason. Otherwise your name may be removed from our mailing list.

ALL QUOTATIONS MUST BE FREE ON BOARD (F.O.B.) TOWN OF OLIVER SPRINGS, TENNESSEE.

This sealed bid is for a Bobcat e55 compact excavator with a trade in option available. All bidders are required to perform a sight visit to determine the value of the trade in that will include two Case Backhoes one in operational used condition and one in salvaged condition (inoperable) this will also include buckets.

TOWN OF OLIVER SPRINGS, TENNESSEE  
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Part Number	Description	SLP/ MSRP US \$	% Disc	Price US \$
M3221	<b>E55 Compact Excavator (equipped with Final Tier 4 engine)</b>	\$	%	\$
M32__-P01-A20	<b>A20 Option Package</b> Enclosed Cab with Heat/AC Cloth Suspension Seat	\$	%	\$
M__-R12-C02	<b>Hydraulic Angle Blade (Deduct item included in price)</b> Increases operating weight by 346 lbs.	\$	%	\$
M32__-R08-C__	<b>Hydraulic Clamp - Class 4</b> Available for E50 Standard Arm & Long Arm and E55. Increases operating weight by 218 lb.			
M__-R26-C02	<b>Radio - Cab Machines Only (Included in A40 Pkg)</b>	\$	%	\$
M__-R11-C02	<b>Travel Motion Alarm</b>	\$	%	\$
7311868	<b>24" TRENCHING BUCKET, 4 WELD-ON TEETH</b>	\$	%	\$
	<b>TOTAL EQUIPMENT</b>	\$		\$
	<b>LESS TRADE IN (2) Case Backhoes one working one salvaged and Extra Buckets (site visit required)</b>			\$ ( )
	<b>TOTAL SALE PRICE</b>			\$
	<b>Cronkhite Hombre 15K Hauling Trailer (SPECS FOR TRAILER ATTACHED)</b>			\$

<b>TOTAL SALE PRICE</b>	<b>\$</b>
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Above items to be delivered to:  
  
Att: Thomas McCormick  
Town of Oliver Springs  
717 Main St.  
Oliver Springs, TN. 37840

In submitting the above, the vendor agrees that acceptance of any or all quotations by the purchasing office within a reasonable period constitutes a contract.

NAME of FIRM: \_\_\_\_\_

By: \_\_\_\_\_

Phone: \_\_\_\_\_

Bids must be sealed and returned in envelope provided.

## TRAILER MODEL (Hombre H-15K)

### STANDARD SPECIFICATIONS

- 12,000 LB. Payload Capacity
- 15,000 LB. G.V.W.R.
- 80 Inch Deck Width
- 102 Inch Overall Width
- 16 Feet Deck Length
- 20 Feet Overall Length
- 17 Inch Deck Height (Loaded)
- (2) 7,000 LB. Drop Axles with EZ Lube Grease Hubs
- 12" x 2" All Wheel Electric Brakes
- 4 ST235/80R16 Load Range (E) Tires
- 8-Bolt Mod Type "Grey" Type Wheels
- Leaf Type Slipper Suspension with Equalizers
- 7 Inch X 4 Inch X 3/8 Inch Heavy Duty Structural Steel Angle Mainframe
- 6" Heavy Duty Structural Channel Tongue Assembly
- 3 Inch Heavy Duty Structural Channel Cross Members
- 6 D-Rings Tie Downs
- 16 ga. Tear Drop Flat Plate Roll Formed Totally Enclosed Fenders (with Fender Backs)
- 2 5/16" Ball Hitch (Hitch Height 11" - 19")
- 10,000 LB. Spring Loaded Drop Leg Jack
- 2" Nominal Treated Pine Decking
- Two adjustable fold-up ramps, 4' Long with ladder type self cleaning traction cleats and self support legs Ramps will lock and store in an up-right position with Flat Strap and Pins lock system
- Incandescent Lighting
- Wiring Run in Steel Conduit, and into Junction box
- 6-Pole Heavy Duty Electrical Connector
- Safety Chains with Hooks
- Safety Breakaway System with Battery and Trickle Charger
- Painted with a liberal coat of Industrial Rust Inhibiting Primer and Enamel Topcoat
- Color, Black
- D.O.T. Approved Reflective Tape

**Bobcat E55 Compact Excavator**  
**Compact Excavator 6-Ton Operating Class**  
**Specifications**

**Bobcat E55 Compact Excavator**  
**Compact Excavator 6-Ton Operating Class**  
**Specifications**

### III. Specifications:

#### A. Machine Performance:

##### 1. Operating Weight:

- With Canopy, rubber tracks, fluids full & 24" bucket ..... 12,004 lbs.
- Add for Enclosed Cab, Heat & Air Conditioning..... + 309 lbs.
- Add for Angle Blade ..... + 346 lbs.
- Add for Hydraulic Clamp .....+ 218 lbs.

2. Arm Digging Force..... 5,751 lbf.
3. Bucket Digging Force..... 8,977 lbf.
4. Rubber track ground pressure shall not exceed .....4.6 psi.
5. Steel track ground pressure shall not exceed .....4.7 psi

#### B. Working Range:

1. Maximum Reach at Ground Level ..... 239.5 in.
2. Maximum Dig Depth shall be no less than.....154.5 in.
3. Maximum Depth of Vertical Wall which can be excavated.....126.0 in.
4. Minimum Boom / Arm Length ..... 109.3 in. / 75.8 in.
5. Minimum Bucket Pivot Angle ..... 185°
6. Maximum Radius of Working Equipment.....243.7 in.
7. Maximum Bucket Tooth Height.....230.3 in.
8. Maximum Dump Height .....162.7 in.
9. Maximum Working Equipment Radius with Boom at Maximum Height .....94.0 in.
10. Maximum Height of Working Equipment with Arm Retracted .....168.1 in.
11. Maximum Blade Lift Height..... 15.1 in.
12. Maximum Blade Drop Depth..... 18.3 in.
13. Minimum Range of Motion -- (Optional Hydraulic Angle Blade) .....25° Left / 25° Right
14. Minimum Boom Swing, Left / Right..... 75° / 50°
15. Minimum Slew Speed ..... 9 RPM

#### C. Dimensions:

1. Overall Length (transport position).....206.4 in.
2. Overall Height (top of canopy/cab) .....100.0 in.

3. Swing Clearance, Rear.....	52.0 in.
• Tail swing over hang shall be no more than 13.4 in.	
4. Clearance, Upper structure to Ground line .....	24.3 in.
5. Length of Track on Ground.....	78.7 in.
6. Overall Length of Track Assembly .....	99.3 in.
7. Ground Clearance -- center of machine .....	12.8 in.
8. Overall Over all Width of Crawler Assembly .....	77.2 in.
9. Ground line to Top of Engine Cover .....	62.1 in.
10. Machine Centerline to Blade -- Standard Blade .....	70.7 in.
11. Machine Centerline to Blade -- w/ Angle Blade Option .....	82.1 in.
12. Minimum Radius in Travel/Transport Position .....	154.4 in.
13. Blade Height .....	17.6 in.
14. Blade Width .....	77.2 in.

D. Hydraulic System:

1. System shall utilize a load sensing, torque limiting variable displacement piston pump.
2. Total hydraulic pump capacity shall be capable of providing no less than 36.6 GPM.
3. Hydraulic pump capacity for auxiliary flow shall be capable of providing no less than 20.0 GPM for attachment operation.
4. Auxiliary port relief pressure shall be set at 3045 PSI.
5. Hydraulic reservoir tank shall be made of resin.
6. Variable flow auxiliary hydraulics shall be standard equipment.
  - Shall include flush-face pressure release quick couplers.
7. Control valve shall be a 9 spool, closed center, individually compensated valve.
  - Shall include detent position for blade float function.
8. Cylinders shall be a double-acting type.
9. Boom and Arm cylinders shall have end of stroke cushioning.
10. Cylinders shall have inertia welded rods and bases at the ends of the cylinders.
11. Hydraulic system shutdown shall be provided as standard equipment and shall monitor hydraulic oil temperature and hydrostatic charge pressure.
12. A hydraulic oil cooler shall be standard equipment.
13. Auxiliary quick couplers shall be flush faced couplers and mounted on the end of the boom.
14. Drive motors shall be 2 axial piston motors.
15. Slew motor shall be axial piston motor with planetary reduction.
16. A feature for draining pressure from the auxiliary hydraulics circuit shall be provided.

E. Drive System:

1. Each track shall be independently driven by a hydrostatic axial piston motor.
2. Shall utilize a two stage planetary gear reduction of 56.4:1
3. Maximum drawbar pull shall be no less than 11,767 lbf.
4. Maximum grade ability shall be 30°.
5. Travel Speeds shall be no less than:
  - Low..... 1.9 mph
  - High..... 3.1 mph

F. Undercarriage:

1. Undercarriage shall be a crawler-type tractor design.
2. Track Rollers shall be sealed, with reinforced box-section track roller frame.
3. Track Adjusters shall be grease-type with shock absorbing recoil springs.
4. Half pitch rubber track shall be standard equipment.
5. Steel shoe track shall be optional equipment.
6. Track width (rubber) shall be no more than 15.7"
7. Track width (steel) shall be no more than 15.7"
8. Each side will utilize 5 bottom track rollers and 1 top roller.
9. Excavator shall have multiple tie down points available along the track roller frame.

G. Engine/Electrical:

1. Excavator shall have a 4 cylinder, liquid-cooled, turbocharged diesel producing no less than:
  - 49.7 hp (37.0 kW) at 2200 RPM rated engine speed. (SAE Gross)
  - 45.7 hp (34.1 kW) (SAE Net)
2. Engine shall produce no less than 153.3 ft.-lbs. (209.8 Nm) torque at 1600 RPM (SAE Gross).
3. Engine displacement shall be no more than 146.0 in.<sup>3</sup>
4. Engine must meet Tier 4 Emission Standards.
5. Engine exhaust system shall not include a diesel particulate filter (DPF).
6. Engine shall utilize forced lubrication.
7. Automatic glow plugs shall be standard equipment.
8. Air cleaner shall be a dry replaceable paper cartridge with safety element.
9. Air filter shall be a full flow cartridge type filter.
10. Alternator shall be 12 volt, delivering no less than 90 amps.
11. Battery shall be 12 volt, delivering no less than 540 cold cranking amps @ 0°F

12. Starter shall be a 12 volt, gear reduction type delivering 2.7 hp (2.0 kW)
13. Engine coolant shall include propylene glycol anti-freeze with freeze protection to -34°F
14. Excavator shall be equipped with an Engine Control Unit to electronically monitor and control the performance of the engine.
15. The fuel injection system shall include a High Pressure Common Rail (HPCR).
16. Engine shutdown shall be provided as standard equipment and shall monitor engine coolant temperature, engine oil pressure, and engine RPM to help prevent engine damage.
17. Engine block heater shall be provided as optional equipment to provide easier starting during cold weather.
18. Engine accessory belt shall not require adjustments.

#### H. Controls:

1. Excavator direction, steering, and travel speed shall be controlled by two hand or foot levers.
  - Thumb buttons control auxiliary hydraulics and boom swing
  - Blade control shall be a separate lever with float function
2. Excavator boom, arm, bucket and slew functions shall be controlled by two joysticks.
3. High and Low travel speed shall be controlled by a push button on the blade lever.
4. Excavator Functions shall be selectable between ISO and Standard controls.
5. Engine speed control shall be a rotary dial with auto-idle feature.
6. Excavator auxiliary function shall be controlled by switches on right-hand joystick.
7. Service brake (Travel) shall be a hydraulic lock on the motor.
8. Parking brake (Travel) shall be a hydraulic lock on the motor.
9. Service brake (Slew) shall be a hydraulic lock on the motor.
10. Holding brake (Slew) shall be an automatically applied slew brake integrated in motor.
11. Engine starting and shutdown functions shall be controlled electrically with a key switch or optional keyless start.

#### I. Capacities:

1. Fuel Tank shall be made of polypropylene and have a minimum capacity of 21.1 gal.
2. Cooling System (radiator) shall have a minimum capacity of 2.0 gal.
3. Engine capacity (with oil filter) shall be a maximum of 7.5 qts.
4. Hydraulic System capacity shall be no more than 14.5 gal.
5. Hydraulic Reserve shall have a maximum capacity of 4.0 gal.

J. Instrumentation:

1. The excavator instrumentation panel shall be positioned forward of the operator for optimum visibility.
2. Standard Instrumentation shall consist of:
  - Gauges for engine coolant temperature and fuel level
  - Warning lights for fuel level, seat belt, engine coolant temperature, engine malfunction, hydraulic system malfunction, general warning.
  - Indicator lights for 2-Speed travel mode, engine preheat
  - Data display for operating hours, engine RPM, maintenance clock, battery voltage, service codes, engine preheat countdown.
3. The system shall alert the operator of monitored excavator malfunctions by way of an audible alarm and visual warning light.
4. The system shall have engine shut down provisions to prevent damage to engine and hydraulic system.
5. A Deluxe Display panel shall be provided and shall include:
  - Digital clock and resettable job clock.
  - Keyless start system that provides one Owner Code and eight Operator codes.
  - Owner and Operator codes shall be (5) digit, programmable at owners discretion.
  - System shall have ability to track individual operator fuel consumption and idle time.
  - System shall have an Eco Mode function.
  - System shall provide real time data including engine coolant temperature, engine oil pressure, battery voltage, hydraulic oil temperature.
  - System shall provide input capability and visual feedback for depth guidance system.

K. Standard Features:

1. Auto-Idle engine speed control.
2. Auto-Shift with 2-Speed travel.
3. Auxiliary Hydraulics with selectable flow feature & boom mounted flush face quick couplers.
4. Canopy, TOPS/ROPS certified four post canopy (ISO 12117) with suspension seat, retractable seat belt, cup holders and adjustable arm rests.
5. Control Console Lock, disabling all machine functions when in raised position.
6. Control Pattern Selector Valve (ISO/STD).
7. Dozer Blade with Float.
8. Engine/Hydraulic Monitor with Shutdown.

9. Fingertip Auxiliary Hydraulic Control.
10. Fingertip Boom Swing Control.
11. Horn (joystick mounted).
12. Hydraulic Joystick Controls.
13. Rubber track.
14. Spark arrestor exhaust system.
15. Vandalism Protection, including locking access hoods and locking fuel cap.
16. Quick-Change (Attachment Mounting System).
17. Work lights, boom mounted (1) and house mounted (1).
18. 12 volt power port.

L. Accessories:

2. A-40 Cab package: Enclosed cab with heat, air conditioning and deluxe cloth seat, deluxe display panel, capable of utilizing the machine's deluxe instrumentation panel for operator input and guidance display.
3. Engine block heater
4. Hydraulic Angle Blade
5. Keyless start system
6. Mirror Kit
7. Secondary auxiliary hydraulics (12 GPM)
8. Travel motion alarm
9. Work light kit – 2 additional front lights & 1 rear light

M. Attachments:

1. All attachments must be mounted on a quick-change mechanism.
2. The following attachments shall be included:
  - Hydraulic thumb/clamp

• 24" TRENCHING BUCKET w/ TEETH

N. Serviceability and Access:

1. Access to the following items shall be gained by opening the rear hood or side access hood:
  - Air cleaner with indicator
  - Battery
  - Cooling System (engine oil and hydraulic oil coolers) for cleaning
    - Cooling coils must be separable without aid of tools
  - Engine oil and fuel filters
  - Engine oil level
  - Sight gauge for hydraulic oil level
  - Starter
2. Rear hood and fuel fill shall be lockable for vandal proofing.
3. Excavator shall utilize composite engine hood and side cover panels.
4. Central grease point for slew bearing & slewinion.

O. Safety:

1. Enclosed cab shall meet Rollover Protective Structure (ROPS) in accordance with ISO 12117-2 and Tip Over Protective Structure (TOPS) in accordance with ISO 12117.
2. Retractable seat belt with reminder indicator (located on dash panel) shall be provided as standard equipment.
3. Additional operator protection shall be provided by deactivating ALL excavator functions when the operator console is in the upright position.
4. An automatic spring applied multi-disc brake shall be provided to lock the upper structure to the undercarriage for transporting.
5. Grab handles to assist the operator in entering and exiting the excavator will be provided as standard equipment.
6. Front working lights for indoor use and low light operation shall be standard.
7. A weather resistant operator handbook written in English will be attached to inside of cab, providing operational instructions and warning by decals.

**IV. Selection Process:**

- A. After carefully considering the procurements contemplated under this Invitation, the Bidder's licensure, experience and ability to supply such items, and the various Specifications set forth under this Invitation, the Bidder shall offer his/her cost proposal for total compensation by completing the appropriate Bid Form located in *Appendix A* for each item the Bidder elects to bid. These amounts shall encompass the total amount bid by the Bidder under this Invitation and shall include, as appropriate, all labor, materials, supervision, equipment, transportation, tools, overheads, profit, and incidentals. No additional monies will be paid by **TOS** to Bidder in connection with this procurement.
- B. Procurement award(s) will be based upon the Bidder providing the "best evaluated bid", as determined by **TOWN OF OLIVER SPRINGS, TN.**
- C. **TOS** may conduct such investigations as it deems prudent to establish the responsibility, financial capability, qualifications, and reputation of the Bidder.

**V. Warranty: 24 MONTHS / 2000 HOURS FULL COVERAGE INCLUDED**

- A. Warranty for products and workmanship shall be for a minimum of twelve (12) months after delivery and acceptance by **TOS**. Any deficiencies found during the first ninety (90) days of actual service due to noncompliance with the applicable Specification shall be corrected at the Bidder's expense at **TOS** facility. In addition, should any deficiency be found after the initial ninety (90) day period but not after one (1) year following acceptance of vehicle by **TOS**, such deficiency or operating problem shall be corrected by manufacturer at a service center approved by the manufacturer at no (zero) cost to **TOS**.
- B. Bidders are encouraged to offer additional warranty extensions for **TOS** consideration.

**VI. Delivery:**

Items procured under this Invitation shall be delivered complete to

**TOWN OF OLIVER SPRINGS, TN.**

**VII. Discount:**

**TOS** is a municipal governmental agency, and as such, is entitled to certain discounts for purchases, including but not limited to, local government pricing, GSA pricing, and discounted pricing

Bidders shall indicate on each bid form submitted the amount of discount being offered to **TOS** and the source(s) of the discount.

**VIII. Payment:**

**TOWN OF OLIVER SPRINGS, TN.**

- A. is exempt from sales or use tax as a municipality. All state, local, and federal taxes, including but not limited to sales taxes, use taxes, value added taxes or any charge or imposition required to be paid in lieu thereof which might be lawfully assessed in supplying any equipment or services covered hereby, or in connection with the use of installation of any material in connection herewith shall be included in the Bidder's prices and shall be paid by the Bidder.