Town of Summerville

25-30 ton Long Reach Excavator

Specifications



Summerville Stormwater Department Final Bid Copy - A

Revised by Ryan Dews

REQUEST FOR PROPOSAL

Sealed bid proposals will be received by the Town of Summerville until 2:00 p.m. on Friday, November 6, 2020. Opening will be held in the 2nd floor training room at the Summerville Town Hall Annex, 200 S. Main Street, Summerville, SC 29483

Proposals will be for the purpose of furnishing the Town of Summerville with one (1) 25-30 ton long reach excavator and applicable attachments. A copy of the instructions to bidders and specifications can be down-loaded from the Town website at http://www.summervillesc.gov/302/Bids-RFPS.

The Town of Summerville reserves the right to reject any and all bid proposals, to waive all formalities and to award the contract, as it appears to be in the best interest of the Town of Summerville. The right is also reserved to hold any and all bid proposals for a period not exceeding sixty days (60) days from the opening thereof.

Questions concerning the equipment specifications must be submitted in writing to:

Krista Collins, Purchasing Agent, Town of Summerville kcollins@summervillesc.gov

All bid proposals must be sealed and submitted to:

The Town of Summerville Attn: Krista Collins 200 S. Main Street Summerville, SC 29483

With the package marked as "Long Reach Excavator"

Intent

The intent of these specifications is to cover the requirements of a 25-30 Ton Long Reach Excavator.

The design of the unit shall incorporate the latest available technology and engineering capacities.

The unit will be capable of powering high flow hydraulic lines to the end of the boom to operate a Bradco MM 60 mulching cutter at 45 GPM flow. The machine will need to be able to operate the cutter and the other hydraulics simultaneously.

The unit will need to be equipped with a JRB SmarLoc Coupler that is controlled from the cab for changing of attachments.

The unit shall be new of current manufacture. No prototype, demo, used, or mechanical type excavator will be accepted.

All parts not specifically mentioned which are necessary to provide a complete excavator shall be included in the bid and shall conform in strength, quality of materials, and workmanship to what is normally provided to the trade in general.

The proposed unit bid must be a regularly manufactured unit with at least ten (10) references available (please provide references with bid).

The Excavator shall meet or exceed all OSHA, federal and state regulations and requirements.

Each bidder must check either "Yes" or "No" column for each section. If "Yes" is checked, bidder will be expected to supply exactly what is described. If "No" is checked, please provide a **detailed explanation of the deviation,** no matter how minor it may be. If the bidder fails to respond either "Yes" or "No", the bid will be rejected for non-compliance.

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VES	NO

25-30 ton Long Reach Excavator

SPECIFICATION SHEET

	Ve	hicle	Sumn	narv:
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<u>Vehicle Summary</u> :
Excavator shall be diesel powered.
State year,
Vehicle shall comply with all applicable federal laws.
Vehicle shall comply with all applicable state laws.
Basic Specations:
Engine net power shall be at minimum 170 hp.
Machine operating weight shall be no less than 50,000 lbs.
Machine operating weight shall be no more than 60,000 lbs.
Machine will have a minimum working reach of 43 feet.
Machine shall couple with existing buckets and attachments owned by The Town of Summerville with a hydraulic quick coupler. (Komatsu PC160 attachments)
Machine will couple with Bradco MM 60 mulching head with auxiliary hydraulic lines installed and included in bid.
Automatic engine warm-up system.
Steel deck guards will be mounted around the machine for protection.
Counterweight shall have built-in lifting eyes.
Transport height shall not exceed 10' 10"
All intended walking surfaces shall have punched steel "anti-skid" traction plates; sandpaper type "anti-skid" material is not acceptable.

	YES	NO
Machine shall have a Positive post for jump-starting.		
Machine shall have a Solid-state circuit protection and fuses.		
Machine shall have an electric travel alarm 87-112 DB self-adjusting.		
Machine shall have battery shut-off switch.		
Deutsch (DT) connectors shall be used to improve wire harness reliability by locking out dust and moisture.		
Wiring harnesses shall be securely fastened throughout the machine.		
Wiring harnesses shall be color-coded and numbered every 2' for easier diagnosis and servicing, wrapped with abrasive resistant braided nylon material to prevent accidental damage and short circuits within the system.		
Hydraulic System		
State if machine shall have an open / closed centered hydraulic system with low effort pilot operated controls		
State if machine uses a variable displacement pump (axial piston type) or gear.		
Fixed displacement implement pump shall be directly connected to engine output.		
State hydraulic pump oil flow		
State hydraulic system operating pressure		
State if machine uses separate hydraulic pump for hydraulics and drive motors.		
Hydraulic filtration to be on (1) suction filter and (1) 10-micron full flow return filter with bypass.		
All hydraulic functions to be actuated by means of direct acting controls.		
Boom and bucket cylinders to have built in cushions on the extension side.		
Arm cylinders to have cushions on both sides.		
Engine and hydraulic pumps shall be completely separated by a steel wall to reduce the possibility of oil contacting hot engine parts in the event of a hydraulic line rupture.		
Hydraulic system shall have a separate hydraulic circuit at arm capable of operating the Town		

Machine shall have automatic climate control that maintains a constant temperature setting.

Machine HVAC filter unit shall be located inside cab and serviceable. (removed and installed without the use of tools facilitating filter maintenance.)

Excavators shall have cup holders.

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 in order to provide improved visibility forward and down.

A security system shall be available to inhibit unauthorized machine use by immobilizing vital electrical circuits unless a valid key is used to start the machine.

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Tracks and Undercarriage		
Track shall be all welded stress released construction, side frames to be welded to frame.		
Track shoes shall be no less than 24" wide. State shoe width		
Track rollers, sprockets and idlers to be permanently lubricated.		
Track shall have hydraulic track adjusters with recoil springs.		
Track shoe and carriage combination shall create a ground pressure less than 25 psi.		
Each track shall be driven by one independent, axial-piston motor via integral planetary final drives.		
Track length should be approx. 14.5'. State length		
Overall track width should not exceed 12'. State overall track width		
The transmission shall be fully hydrostatic with multi speed settings.		
State machine ground pressure.		
Operator's Controls		
Personal storage areas shall include places to store a lunch box, thermos, cup, coat rack and a lockable storage area.		
Control pattern shall be SAE (international) design.		
The standard control package shall include joystick type pilot controls.		
Travel to be (2) pedal lever combinations, one for each track.		
Engine throttle control shall be a rotary dial type.		
A comfort seat shall be included with ergonomically shaped seat cushions to reduce pressure on the lower back and thighs and allow unrestricted arm and leg movement.		
State if arm rest angle adjustment is available.		
Seat shall include a retractable seat belt with an anti-cinch feature.		

	YES	N
State if machine has bonded, tinted glass with silicon joints and few obstructions that eliminates pillar obstructions and allows expansive peripheral visibility.		
Steps leading up to the cab shall be wide and angled out for secure footing.		
A 12V converter for powering electronics, a radio installation package, sun-visor for windshield, roll-down sun screen for rear window, external mirror package and auxiliary lighting packages both front and rear shall be installed.		
<u>Travel</u>		
Travel to be by propel motors, one (1) each side.		
Propel motors to be of axial piston design with planetary drives.		
Each propel motor shall be independent of each other for counter rotation.		
Propel motors and lines to have protective covers.		
An idler guard shall be provided to maintain track alignment while traveling or working on slopes.		
Each track frame supported by a minimum of 5 bottom rollers and 1 upper roller.		
<u>Boom</u>		
Boom and arm to be of low stress, welded full box section design.		
Boom and arm pins and bushings to have a central lubrication system, state location of system.		
All bucket pins to have dirt seals.		
State bucket force		
Must have minimum 10,000 lb lifting capacity at 5' in front with blade down.		
State capacity		
Boom & stick configuration shall allow for a minimum of 46' ground level reach.		
State max. reach		

Service Fill Capacities

Fuel tank shall have a minimum 100-gallon capacity.

Cooling system shall have hot weather cooling capacity.

State the hydraulic system cana	city:	
State the flydraufic system capa		
State capacity of hydraulic reser	rvoir:	
Operating Cost		
D 1 111 ()		
Dealer shall state recommended	l oil change interval of machine.	
Extended Life Coolant/Antifree	ze shall allow for up to 6,000 hours between changes.	
With required oil sampling, hyd	lraulic oil shall have a minimum of a 4,000 hour change	
interval.		
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Parts List Cost		
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Warranty

The Excavator warranty shall include the following: (beyond all factory warranties)

- Dealer's mileage and travel time shall be included in the life of the warranty. (No Cost \$ to the Town)
- Vendor or authorized representative of the vendor shall have a parts distribution and repair facility to supply after sales support within 30 miles of the Town Maintenance facility located at 1105 Yancey Street, Summerville, SC 29483.
- No Cost (\$) will be charged to the Town of Summerville if machine is transported to Dealership.
 (During any warranty period)
- No cost (\$) will be charged to the Town of Summerville for freight of parts or any other cost incurred by the Dealer under warranty.

Options (show cost of warranty options)

- Full Machine warranty of five years or 7,500 hours Bumper to Bumper.
- Full Machine warranty of three years or 3,000 hours Bumper to Bumper.
- Power train warranty of five years or 7,500 hours.

A 30-day guarantee shall be submitted on the bidder's letterhead stating, "If the machine fails to perform under its intended use and fails to operate because of extended downtime and repairs, the Town may reject the proposed equipment within 30 days after delivery, for a full refund including freight." No exceptions to this requirement.

Delivery shall be included in the cost of the unit.

Tax will be included as a separate line item.

Training videotape shall be provided showing maintenance and operating procedures.

Complete <u>Parts, Operating, and Service manuals</u> for both the unit and the engine shall be supplied on 1 set(s) of CD-Rom(s) and 1 set(s) of books at delivery. <u>No Exceptions</u>

The unit shall be delivered completely assembled, serviced, and ready to operate.

Dealer to state delivery date:	
	***No bid will be considered if left blank. ***

Total Bid Proposal Price:	
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YES

NO