

CITY OF ROCHESTER, NH
31 Wakefield St. Rochester, NH 03867
INVITATION TO BID

City of Rochester, NH is soliciting a competitive bid;

1. **BID: Bid 22-18 4x4 Wheel Loader**
2. **BID Submission Options-Hardcopy, or Electronically:**
 - a) Submit Hardcopy via USPS, FEDEX, or UPS: City of Rochester, NH, Purchasing Agent 31 Wakefield St. Rochester, NH 03867. Reference **Bid 22-18** on package. No in-person drop offs.
 - b) Submit Electronically via Email: RFP22-18@rochesternhnet.onmicrosoft.com
Include in Email subject line: **Bid 22-18**. An automated email confirmation will be generated to bidder once bid has been received. It is bidder's responsibility to ensure proper email submission of bid, and to monitor for the confirmation email.
3. **Bid Receipt Date & Time:** No later than **August 4, 2021 at 5:00pm.**
4. **Bid Opening Date & Time:** **August 5, 2021 at 3:15 pm.** Opening will be conducted virtually via City of Rochester's Government Channel Video on Demand-Live Stream broadcast <https://rochesternh.viebit.com/?folder=ALL>. Select Live Stream top center. Local broadcast will also occur on Atlantic Broadband cable government channel #26.
5. **Bid Specifications, Questions & Addendums (Q&A):** Can be obtained by visiting <https://rochesternh.net/bids> see **OPEN BIDS** section. Or contact City of Rochester, NH Purchasing Agent 31 Wakefield St. Rochester, NH 03867, purchasing@rochesternh.net, 603-335-7602. Note Q&A updates will end one week prior to bid opening.
6. **Bid Results:** Results can be obtained at <https://rochesternh.net/bids>, in **CLOSED BIDS** section. Select the specific bid to see all results, or contact Purchasing Agent.

CITY OF ROCHESTER NH
SPECIFICATIONS
COMPACT 4 x 4 WHEEL LOADER E
MINIMUM SPECIFICATIONS

The City of Rochester, NH are accepting bids for a new compact 4x4 wheel loader see specifications below:

Engine: Engine shall be US EPA Tier 4 Final compliant, Engine net power shall be at least 69 hp, ISO 9249. Engine gross power shall be no less than 74 hp, SAE J1995.
Air cleaner shall be dual element type filter and include an air filter service indicator to identify the need for filter changing / cleaning.
Machine shall have ECO mode feature as standard to conserve fuel.
Machine ECM shall automatically derate the engine for protection during overheating.
Machine shall have gear driven Water and Oil pumps.
Engine shall be resiliently mounted to isolate vibration
Engine shall have a 110-volt engine block heater.

Cooling System:

The cooling air stream shall pass through the cooler area before passing over the engine.
Cooling fan must be demand type and be hydraulically driven.
Machine shall have a hinged hydraulic oil cooler for ease of cleaning.
Radiator and hydraulic oil cooler shall be in a single plane with clean out access doors as standard and must be able to be cleaned from ground level.
Radiator to have 6 fins per inch.

Machine Dimensions/Weight:

Machine width shall be no more than 6'6"
Machine wheelbase shall be no more than 7'1"
Machine height shall be no more than 8'8"
Machine bucket clearance at maximum lift and level bucket shall be 10'7"
Machine bucket pin height shall be 11'2"
Maximum overall length of 18'11"
Minimum operating weight of 14,032 pounds

Machine Performance, with 1.4 Cubic Yard GP Bucket:

Minimum bucket breakout force of 10,566 lb
Minimum full turn static tipping load of 8,311 lb
Minimum straight turn static tipping load of 10,207 lb
Minimum rackback angle at carry of 52 degrees
Minimum dig depth of 3.7"
Minimum reach of 2'10" at full lift and 45-degree discharge
Minimum dump clearance of 8'4" full lift and 45-degree discharge

Electrical:

The electric system shall operate on a 12-volt starting and charging system.

Machine shall have a minimum alternator rating of 80 amp.

Machine shall have automatic idle engine shutdown feature as standard.

Machine shall have a standard master battery disconnect switch, accessible at ground level.

Full IP67 Wiring system, all harnesses, wiring, connections and termination points throughout the machine and shall be wrapped with abrasive resistant braided nylon material to prevent accidental damage and short circuits within the system and securely fastened as per IP67 requirements.

Wiring harnesses shall be securely fastened throughout the machine as per IP67 requirements.

Deutsch (DT) double sealed connectors shall be used to improve wire harness reliability by locking out dust and moisture.

Individual wires in the wiring harness shall be color-coded and numbered every 2" for Easier diagnosis and servicing.

Strobe Lights.

Machine shall have front and rear auxiliary lighting.

Stop, tail and turn signals shall mount in rear counterweights for extra protection.

Factory installed work tool harness.

Transmission:

Machine shall have a closed-loop hydrostatic system for high performance.

Machine shall have a minimum forward and reverse travel speed of 6.2 mph in first gear.

Machine shall have a minimum forward and reverse travel speed of 12.4 mph in second gear.

Machine shall have three forward and three reverse speeds with a maximum of 21.7 mph.

Machine shall have a forward/neutral/reverse switch standard on the implement control joystick.

Machine shall have two-speed capability as standard equipment.

Machine shall have operator-selectable Creeper Control feature to control ground down speed from 0.6 mph to 6 mph independent of engine RPM.

Machine shall have an inching pedal to allow momentary travel speed as low as zero with full engine RPM.

The inching function (transmission neutralizer) shall be provided as standard equipment and shall not require A separate pedal to perform this function.

Machine shall have operator selectable Rim Pull Control Feature to minimize tire slip and wear in various ground Conditions, always within a glance on the console to know the exact setting.

The operator shall have a three-position selectable function, readily seen at all times and adjustable on the go, which tunes the Forward-Neutral-Reverse switch to have more aggressive or smoother shift from Forward to Reverse or Reverse to Forward. This feature may not be the type which is only selectable within a series of menu commands.

All operator tuning functions to adjust the powertrain to have

A transmission high-low switch shall be provided, with two speed ranges offered in low and full rimpull shall be available in low gear.

Machine shall have independent control for ground speed and engine RPM.

Machine shall be capable of full power directional changes.

Hydraulic System:

The implement pump maximum working pressure shall be at least 3,408 psi.

Machine shall have standard 3rd function hydraulics available for use with work tools that require hydraulic power.

Machine shall have a continuous flow feature for the 3rd function auxiliary hydraulics, allowing rotating work tools such as brooms and snow blowers to run automatically.

Machine shall feature a red colored hydraulic lock out safety switch to disable implement functions.

The hydraulic oil cooler shall be cleaned with the serviceman positioned on the ground only.

Cab mounted low effort joystick control shall offer simultaneous lift and tilt functions.

Machine shall use 4 layers spiral wrapped steel hose with each layer separated by rubber with 4,000 psi working pressure.

Machine shall have pressure taps to allow quick diagnosis of complete hydraulic system.

Machine shall have a hydraulically driven demand fan.

Machine shall have two section implement control valve for lift and tilt functions and one additional valve section standard.

All external couplers shall be screw type couplers.

Hydraulic couplings shall have O-ring face seals.

Hydraulic 3rd auxiliary flow shall be at least 22 gpm, with high flow hydraulic 3rd auxiliary flow shall be at least 34 gpm included.

Hydraulic main relief shall be at least 3400 psi.

Hydraulic lift time shall be less than 5.5 seconds, dump time shall be less than 1.5 seconds and lower time shall be less than 3.5 seconds with a rated load in the bucket.

Maximum total cycle time of 11.8 seconds.

Hydraulic oil shall be diverted from the auxiliary circuit to the coupler circuit without leaving the operator station.

The implement pump shall be mechanically driven and directly connected to engine output.

A Ride Control system, for smooth operation in rough roading conditions.

The hydraulic tank shall have an oil sight guage that allows checking fluid level without removing the filler cap.

Machine shall have electric detents for the lift, tilt and return to dig functions, as well as lift kickout and float.

Axles/Steering/Brakes:

Front axle shall be rigidly mounted to the front loader frame.

Front and rear axles shall contain an electronic means of locking the differentials with a joystick mounted control, without stopping the machine. Axle shall automatically stay locked until equal torque is sensed on both wheels.

100% Locking Differentials on front and rear axles.

Seals on the axle and housing shall keep oil in and lock contaminants out to prevent contamination of internal components.

Axles shall have available fully-enclosed brakes and final drives.

Machine shall have axle seals as standard.

Planetary reduction gears shall be outboard mounted for durability and to have separate oil compartments, minimizing general contamination in the event of a gear or bearing failure.

Steering articulation angle shall be at least 39 degrees each side.

Machine shall be equipped with asymmetric steering, allowing the same turning radius when steering left

or right from a single steer cylinder.

Steering cycle time from full left to full right at maximum RPM shall be no more than 3 seconds.

Steering system shall use a dedicated pump with dual acting cylinders, with no compromise in the loader hydraulics.

Minimum steering system working pressure shall be 3,191 psi.

High impact rubber steering stops shall be standard.

The machine will feature front-to-rear wheel tracking to minimize collisions with rear chassis, in tight turning areas.

Parking brake shall be mechanical disc/caliper type on driveline for positive manual operation.

The transmission shall be automaticall neutralized when the parking brake is applied.

The brake reservoir shall be an integral part of the hydraulic system and shall be self replenishing.

Service brakes shall be built into the front axle.

Hydrostatic system shall provide additional hydraulic braking capacity.

Machine shall have an audible alarm and indicator light to alert operator if brake pressure drops below normal operating parameters.

Brake pedal shall be suspended for easy cleaning of the floor and keeping debris from impeding pedal linkage.

Single, suspended inching/braking pedal shall function as a ground speed control and brake so the operator can maintain high engine RPM for full hydraulic flow and fast cycle times.

Hydrostatic drive shall be variably neutralized during braking.

Parking brake shall have slope holding capability to 5:1 slope.

Tires:

Machine shall have 405/70 R20 Snow Style Radial Tires, Matching Spare Rim/Tire.

Cab:

Enclosed deluxe operator's station shall expose the operator to sound levels of no greater than 77 dB(A).

Cab shall have highest level of sound suppression available.

For future cost savings all glass shall be flat. All glass shall be bonded and tinted with silicon joints few obstructions to allow for peripheral visibility.

Glass panels shall extend from cab roof to floor for visibility.

Rear window shall have an electric defroster, with timer.

Machine shall have left and right hinged doors that fully open and lock 180 degrees flush against the cab, with the ability to open/close door from the drivers seat. Both doors shall have glass extending to cab floor for maximum side visibility. Doors shall have ground level releases.

Cab shall have sliding windows.

Cab shall be resiliently mounted to isolate vibration.

Unit shall have an HVAC system, with a minimum of 3 speed fan and eleven vents.

Machine shall have self canceling turn signals.

Machine shall have a tilt steering console.

Machine shall have an AM/FM Radio.

Machine shall have a 12V socket.

Machine shall have a deluxe cloth covered heated air suspension seat, with fore/aft, seat back angle adjustment, with tall backrest, lumbar support, arm rest angle and air suspension stiffness. A 2" Seat Belt is required.

The implement lever console shall have a full armrest.

Machine shall have personal storage areas to include places to store a cup, coat and have a lockable storage

area.

Machine shall have a single joystick control, which will operate both lift and tilt functions. Joystick shall integrate forward/reverse direction switch and adjustable 3rd function control, differential lock selector and speed range 1 and 2 selector.

Machine will have both front and rear wipers/washers.

Machine will have rectangular self cleaning, wide ladder style steps for secure footing while entering/exiting. First step shall be flexible.

Gauges/Warning Indicators:

Machine shall have back lit LCD display and gauges including, but not limited to: hydraulic and engine temperatures, hour meter, gear selection and fuel level.

Warning and indicator functions shall include, but not be limited to: diesel particulate filter, starting aid, engine, electrical, parking brake, directional turn signals, brakes, high beams, action required notice, continuous flow, hydraulic filter bypass, bucket float, creeper, directional F/N/R.

Loader:

Machine shall have Z-Bar linkage design, with parallel lift option. Loader arms will be high lift/long reach design.

Machine will have hydraulic skid steer style coupler, controlled by the operator with a switch located in the cab.

Bucket to be a quick hitch 1.4 Cubic Yard GP bucket, with reversible bolt on cutting edge.

Machine to have an electrical work tool harness attached to the machine/coupler.

Other Required Features:

Machine shall have a back-up alarm.

Rear engine enclosure shall be no wider than the cab to allow visibility to the rear counterweight corners and objects. The engine enclosure shall have a curved design towards the rear to provide excellent visibility.

Fluids/Servicing:

Cooling system to have a minimum capacity of 4.5 gal.

Fuel Tank to have a minimum capacity of 20.6 gal.

Hydraulic system to have a minimum capacity of 18.5 gal.

Engine oil to have a minimum capacity of 3.0 gal.

Machine shall have a fuel level gauge on the primary display to help with fluid fill management.

Machine will have a recommended engine oil change interval of at least 500 hours.

Machine will have a recommended hydraulic oil change interval of at least 1000 hours.

Machine will have a recommended coolant/antifreeze change interval of at least 12,000 hours.

Air cleaner service indicator shall be visible within the engine compartment.

All daily powertrain check points shall be visible from ground level, on the same side of the machine.

Radiator coolant, gear box and hydraulic oil levels shall have sight gauges visible at ground level.

Spin on filters for engine oil and hydraulic oil shall be ground level accessible.

Machine shall have a maintenance free driveshaft aside from slip joint greasing.

Additional Required Work Tools to be Included:

10' Snow Pusher

48" Pallet Forks

80" LM (2 Cubic Yard) Bucket

85" Snow Blower

Manuals:

Shall include Paper Operator's Manual, Part's Manual, Service Manual

Warranty:

Machine shall have a full machine 7 year/ 2000-hour warranty, with no deductibles.

INSTRUCTION TO BIDDERS

- I. PREPARATION OF BID PROPOSAL**
- II. IRREGULAR PROPOSALS**
- III. DELIVERY OF PROPOSALS**
- IV. ELECTRONIC BID FORMAT**
- V. WITHDRAWAL OF BID PROPOSAL**
- VI. PUBLIC OPENING OF BID PROPOSAL**
- VII. DISQUALIFICATION OF BIDDERS**
- VIII. CONSIDERATION OF PROPOSALS**
- IX. AWARD OF CONTRACT**
- X. CANCELLATION OF AWARD**
- XI. BID EVALUTAION**
- XII. LAWS, PERMITS & REGULATIONS**
- XIII. INSURANCE & LEGAL BUSINESS ENTITY**
- XIV. DEFAULT & TERMINATION OF CONTRACT**
- XV. OPENING BID RESULTS**
- XVI. BID FORM**

I. PREPARATION OF BID PROPOSAL

1. The Bidder shall submit her/his proposal upon the form(s) furnished by the City (attached). The bidder shall specify a unit price for each pay item. All figures shall be in ink or typed.
2. If a unit price or lump sum bid already entered by the bidder on the proposal form is to be altered it should be crossed out with ink, the new unit price or lump sum bid entered above or below it, and initialed by the bidder, also with ink. In case of discrepancy between the prices written in words and those written in figures, the prices written in words shall govern.
3. The bidder's proposal must be signed with ink by the individual, by one or more members of the partnership, by one or more members or officers of each firm representing a joint venture, by one or more officers of a corporation, or by an agent of the contractor legally qualified and acceptable to the owner. If the proposal is made by an individual, his name and post office address must be shown, by a partnership the name and post office address of each partnership member must be shown; as a joint venture, the name and post office address of each must be shown; by a corporation, the name of the corporation and its business address must be shown, together with the name of the state in which it is incorporated, and the names, titles, and business addresses of the President, Secretary, and Treasurer.
4. All questions shall be submitted in writing to and received by the Purchasing Agent at the above address, a minimum of 7 days prior to the scheduled bid opening. The Purchasing Agent, will then forward both the question and the city's response to the question to all known prospective bidders.

II. IRREGULAR PROPOSALS

Bid proposals will be considered irregular and may be rejected for any of the following reasons:

1. If the proposal is on a form other than that furnished by the Owner or if the form is altered or any part thereof is detached.
2. If there are unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite or ambiguous as to its meaning.
3. If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.
4. If the proposal does not contain a unit price for each pay item listed, except in the case of authorized alternate pay items.

III. DELIVERY OF BID PROPOSALS

When sent by mail, the sealed proposal shall be addressed to the City of Rochester, Purchasing Agent, 31 Wakefield Street, Rochester, NH 03867. All proposals shall be filed prior to the time and at the place specified in the invitation for bids. Proposals received after the time for opening of the bids will be returned to the bidder, unopened. Faxed bid proposals are not acceptable please see coversheet for instructions on emailed bids.

IV. ELECTRONIC BIDS: Due to Covid-19 the City of Rochester has incorporated an electronic bid process. If an electronic format is to be utilized specific submission instructions will be identified in the bid cover page.

V. WITHDRAWAL OF BID PROPOSALS

A bidder will be permitted to withdraw his proposal unopened after it has been deposited if such request is received in writing prior to the time specified for opening the proposals.

VI. PUBLIC OPENING OF BID PROPOSALS

Proposals will be opened and read publicly at the time and place indicated in the invitation for bids. Bidders, their authorized agents, and other interested parties are invited to be present.

VII. DISQUALIFICATION OF BIDDERS

Either of the following reasons may be considered as being sufficient for the disqualification of a bidder and the rejection of her/his bid proposal(s):

1. Evidence of collusion among bidders.
2. Failure to supply complete information as requested by the bid specifications.

VIII. CONSIDERATION OF PROPOSALS

1. Bids will be made public at the time of opening and may be reviewed only after they have been properly recorded. In case of discrepancy between the prices written in words and those written figures, the prices written in words shall govern. In case of a discrepancy between the total shown in the proposal and that obtained by adding the products of the quantities of items and unit bid prices, the latter shall govern.
2. The right is reserved to reject any or all proposals, to waive technicalities or to advertise for new proposals, if in the judgment of the City, the best interest of the City of Rochester will be promoted thereby.
3. Bid results will be available on the website at www.rochesternh.net within 48 hours of the bid opening.

IX. AWARD OF CONTRACT

The City holds the right, in its judgment, to award the contract to the bidder, which it feels is in the best interest of the City. If a contract is to be awarded, the Contractor/Vendor selection shall be based in part on possession of the necessary experience, organization, technical and professional qualifications, skills and facilities, reference checks, project understanding, approach, ability to comply with proposed or required time to completion or performance, licensing or certification, in good standing with Federal, State and Local agencies, possession of satisfactory record of performance, cost and to a responsible and qualified bidder whose proposal complies with all the requirements prescribed as soon as practical after the bid opening. No bid shall be withdrawn for a period of (60) sixty days subsequent to the opening of bids without the consent of the City of Rochester. The successful bidder will be notified, by the form mailed to the address on his proposal, that his bid has been accepted and that he has been awarded the contract.

X. CANCELLATION OF AWARD

The City reserves the right to cancel the award of any contract at any time before the execution of such contract by all parties without any liability or other claim against the City.

XI. BID EVALUATION

In addition to the bid amount, additional factors will be considered as an integral part of the bid evaluation process, including, but not limited to:

1. The bidder's ability, capacity, and skill to perform within the specified time limits.
2. The bidder's experience, reputation, efficiency, judgment, and integrity.
3. The quality, availability and adaptability of the supplies and materials sold.
4. The bidder's past performance.
5. The sufficiency of bidder's financial resources to fulfill the contract.
6. The bidder's ability to provide future maintenance and/or services.
7. Any other applicable factors as the City determines necessary and appropriate (such as compatibility with existing equipment).

XII. LAWS, PERMITS AND REGULATIONS

1. The Contractor shall obtain and pay for all licenses and permits as may be required of him by law, and shall pay for all fees and charges for connection to outside services, and use of property other than the site of the work for storage of materials or other purposes.
2. The Contractor shall comply with all State and Local laws, ordinances, regulations and requirements applicable to work hereunder, including building code requirements. If the Contractor ascertains at any time that any requirement of this Contract is at variance with applicable laws, ordinances, regulations or building code requirements, she/he shall promptly notify the City of Rochester in writing.

XIII. INSURANCE & LEGAL BUSINESS ENTITY

1. Contractor and any related subcontractors will carry appropriate liability insurance, and be a legal business entity authorized to conduct business in the State of New Hampshire.

XIV. DEFAULT AND TERMINATION OF CONTRACT

If the Contractor:

1. Fails to begin work under Contract within the time specified in the notice to proceed; or
2. Fails to perform the work with sufficient workers and equipment, or with sufficient materials to assume prompt completion of said work; or
3. Performs the work unsuitably or neglects or refuses to remove materials or to perform anew such work as may be rejected as unacceptable and unsuitable; or
4. Discontinues the prosecution of the work; or
5. Fails to resume work, which has been discontinued, within the time frames included in specifications; or
6. Becomes insolvent or has declared bankruptcy, or commits any act of bankruptcy or insolvency; or
7. Makes an assignment for the benefit of creditors; or
8. For any other causes whatsoever, fails to carry on the work in an acceptable manner the City of Rochester will give notice, in writing, to the Contractor for such delay, neglect, and default.

If the Contractor does not proceed in accordance with the Notice, then the City of Rochester will have full power and authority without violating the Contract to take the prosecution of the work out of the hands of the Contractor. The City of Rochester may enter into an agreement for the completion of said Contract according to the terms and conditions thereof, or use such other methods as in the City's opinion will be required for the completion of said Contract in an acceptable manner.

All extra costs and charges incurred by the City of Rochester as a result of such delay, neglect or default, together with the cost of completing the work under the Contract will be deducted from any monies due or which may become due to said Contractor. If such expenses exceed the sum which would have been payable under the contract, then the Contractor shall be liable and shall pay to the City of Rochester the amount of such excess.

XV. OBTAINING BID RESULTS

Bid results will be available on the website at www.rochesternh.net within 48 hours of the bid opening.

Vendor Name: _____

Address: _____

Phone: _____ Fax# _____ Email: _____

Contact Person: _____

Authorized Signature: _____

Loader	Description	Amounts
4 Wheel Drive Loader	Model Year 2022 Cost New	\$
Trade in value	City Vehicle #112 2001 VOLVO L30BVin# L30BZSD1812282 (as is, as seen)	
	Trade Amount	\$
	Cost of truck #1 less trade in	\$

Bid results will be posted after 48 hours on the City of Rochester’s web site:
www.rochesternh.net or will be available by request via email at the following address:
purchasing@rohcesternh.net.