Request for Proposal

The Port of Oswego Authority is requesting proposals for (1) Articulating Wheel Loader. Sealed bids will be received by the Port of Oswego Authority Administrative Office at 1 East Second Street, Oswego NY 13126. Proposals will be received until **2:00 P.M. Eastern Standard Time August 29th, 2024.**

PORT OF OSWEGO AUTHORITY RIGHTS

The Port reserves the right to cancel this RFP in writing or postpone the date and time for submitting proposals at any time prior to the proposal due date. The Port by this RFP does not promise to accept the lowest cost or any other proposal and specifically reserves the right to reject any or all proposals, to waive any formal proposal requirements, to investigate the qualifications and experience of any Proposer, to reject any provisions in any proposal, to modify RFP contents, to obtain new proposals, to negotiate the requested services and contract terms with any Proposer, or to proceed to do the work otherwise.

The Port hereby notifies all bidders that it will affirmatively insure that in regard to any contract entered into, pursuant to this request, minority business enterprises will be afforded full opportunity and are encouraged to submit proposals in response to this invitation and will not be discriminated against on the grounds of race, color, sex, or national origin in consideration for an award. The Port reserves the right to accept or reject any and all bids that is in the best interest of the Port.

All bidders are required to address the following:

MWBE: The Port of Oswego Authority has a 30% goal for minority and women-owned business enterprise (MWBE) participation. Bidders are required to make a good faith effort and provide documentation in writing as part of their response to this RFP. https://ny.newnycontracts.com/FrontEnd/VendorSearchPublic.asp

SDVOB: The Port of Oswego Authority has a goal of 6% for SDVOB. Article 17-B of the Executive Law enacted in 2014 acknowledges that Service-Disabled Veteran-Owned Businesses (SDVOBs) strongly contribute to the economies of the State and the nation. Bidders are required to make a good faith effort and provide documentation in writing as part of their response to this RFP. http://ogs.ny.gov/Core/docs/CertifiedNYS_SDVOB.pdf

GENERAL SPECIFICATION

MODEL: Unit shall be a new 2024 or newer year model.

- **Attached are the <u>Product Technical Specifications</u>. Please answer each column and provide notes as required. The bid will be reviewed on the basis of the specifications provided.**

WARRANTY: Shall be stated in writing on the form provided.

DELIVERY: Proposer must perform a complete pre-delivery service prior to delivery of equipment. **All units are F.O.B. destination, Port of Oswego Authority,** which includes setup.

Proposer must state the number of days for delivery from time of order. If the delivery date is not met, a $100.00 per day may be assessed against the purchase price with the total not to exceed 2.5% of purchase price.

TRAINING: Upon delivery to end-user, Proposer will provide instruction to operators on proper operation and daily maintenance.

Training on repair procedures shall be provided by a factory qualified representative to the applicable Port repair technician(s).

Detailed specifications must be included by Proposer when responding to the RFP. The RFP will not be accepted if this criterion is not met.

Preference may be given to Proposer who has a local dealer with a reasonable amount of parts inventory for the unit that has been proposed and a complete service facility.

The Port reserves the right to enter into a lease for the equipment with the awarded company or another.

Loader Bidding Specifications

INTENT

It is the intent of this specification to provide for the purchase of one (1) new and unused Articulated Loader to be used by Port of Oswego Authority.

The Port of Oswego Authority has evaluated different styles of loaders and has determined that this published specification is best suited for the Port in terms of quality and features. **This specification shall not be interpreted as restrictive but rather as a measure of quality and performance against which all other articulated loaders will be compared.**

In comparing proposals, comparison will not be confined to price only. The successful bidder will be one whose product is judged as best serving the interests of the Port when price, product, quality and delivery are considered. **The Port also reserves the right to reject any or all bids or any part thereof, and to waive any minor technicalities in its opinion.** A contract will be awarded to the bidder submitting the lowest responsible bid meeting the requirements.

EQUIVALENT PRODUCT

Bids will be accepted for consideration on any make or model that is equal or superior to the articulated loader specified. **Decisions of equivalency will be at the sole interpretation of the Port.** A blanket statement that equipment proposed will meet all requirements will not be sufficient to establish equivalence. An original manufacturer's brochure of the proposed product is to be submitted with proposal.

INTERPRETATIONS

In order to be fair to all bidders, no oral interpretations will be given to any bidder, as to the meaning of the specification documents or any part thereof. Every request for such a consideration shall be made in writing. Based on such inquiry, the Port may choose to issue an Addendum in accordance with New York State laws.

GENERAL

The specification herein states the minimum requirements of the Port. All bids must be regular in every respect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. The Port will consider as irregular or non-responsive any and all bids that are not prepared and submitted in accordance with the bid document and specification, or any bid lacking sufficient technical literature to enable the Port to make a reasonable determination of compliance to the specification. It shall be the bidder's responsibility to carefully examine each item of the specification.

Failure to offer a completed bid or failure to respond to each section of the technical specification (COMPLY: YES- NO-N/A) may cause the proposal to be rejected without review as non-responsive. All variances, exceptions and/or deviations shall be fully described in the appropriate section. Deceit in responding to the specification will be cause for rejection.

Mail or hand deliver by the deadline the completed documents to:

Mark envelop as Loader 2024 and address to:

William W. Scriber, Executive Director
1 East Second Street
Oswego, New York 13126

All expenses involved with the preparation and submission of proposals, and any work performed in connection therewith, shall be borne by the Proposer. No payment will be made for any responses received nor for any other effort required of or made by the Proposer prior to award of a contract.

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Product Technical Specifications

Wheel Loader Specifications

Equiped with 5.0 Cubic Yard Capacity Roll Out Bucket

262 HP Engine - or Approved Equivalent

Section 0 - Description

0.1	The purpose of the below technical specification is for the Port of Oswego to purchase one articulated front-end loader with pneumatic tires, 5.0 cyd roll out bucket w/bolt-on cutting edge, rear-mounted engine, with operator cab which includes HVAC, radio, and 360 degree camera with color LCD screen. Adequate cooling and fuel capacity shall be provided for continuous operation during one full shift. Unit shall also be built from the ground up as an integral loader for front-end loading operations. Units supplied to this contract specification shall meet or exceed these requirements. Technical specification compliance and acceptance is determined at the discretion of the Port of Oswego. The supplied unit shall be new, and of the latest design of a model in current production or an update of an existing model. The supplied unit shall also be furnished with identical equipment, options and features as listed below. It shall be furnished completely assembled, fully serviced, and ready for immediate operation. The right is reserved to reject any and all bids proposing to furnish equipment, which, in the opinion of the agency's engineers and/or staff, is not satisfactory for the Port of Oswego's use in the proposed application.

Section 1 - Dimensions, Weight, & Performance w/ Bucket

Specification Number	Specification Description	Specification Compliance		
		Complian	Non-	Notes
1.1	Unit shall have a minimum SAE operating weight of 40,786 lbs. without counterweight. No counterweight shall be provided.			
1.2	Tip load full turn at 28,881 lbs. minimum.			
1.3	Z-bar linkage system with “bucket float” and “auto return to dig” modes			
1.4	Height to top of cab of 11' 7" (139 inches)			
1.5	Height to top of beacon 13' (156 inches)			
1.6	Length overall w/ bucket 26' 8" (320 inches)			
1.7	Wheelbase of 10' 6" (130 inches)			
1.8	Dump clearance bucket at 45° angle of 10' 2" (122 inches)			
1.9	Overall bucket hinge pin height fully raised 13' 6" (162 inches)			
1.10	Dig depth 2.2 inches			
1.11	Bucket width 9' 10" (118 inches)			
1.12	Width over tires 7' 3" (87 inches)			
1.13	Turning radius inside of tires 11' 9" (141 inches)			
1.14	Turning radius outside of tires 20' (240 inches)			
1.15	Rack angle at full lift 58°			
1.16	Dump angle at full lift 45°			
1.17	Rack angle at carry 45°			
1.18	Articulation Angle ± 40°			
1.19	Rollout Bucket capacity 5.0 cubic yards			
1.20	Bucket breakout force 39,683 lbf			
1.21	Max bucket reach at 45° dump of 3' 10" (46			

Section 2 - Engine

Specification Number	Specification Description	Specification Compliance		
		Complian	Non-	Notes
2.1	Engine rated net power shall be at least 252 hp (188 kW) according to ISO 9249 at 2100 RPM.			
2.2	Engine rated torque shall be at least 962 lbf (1304 Nm) according to ISO 9249 at 1450 RPM			
2.3	Engine shall be heavy-duty, anti-freeze liquid-cooled, diesel engine.			
2.4	Engine shall be US EPA Tier 4 Final / EU Stage IV compliant and Tier 4 final compliance certificate shall be available upon request.			
2.5	Engine aftertreatment shall be equipped with a system that uses, Exhaust Gas Recirculation (EGR), a Diesel Oxidation Catalyst (DOC) and Selected Catalytic Reduction (SCR) and Diesel Particulate Filter (DPF).			
2.6	Engine aftertreatment system shall use Diesel Exhaust Fluid (DEF) to meet emission			
2.7	DEF tank shall be located away from the diesel fuel tank, configured with a blue cap to prevent fluid mix up and a sight gauge to prevent			
2.8	Machine shall have Fuel and DEF level gages on the primary display to help with fluid fill			
2.9	Emissions requirements shall meet or exceed worldwide requirements and be EPA Tier 4 Final (EU Stage IV) compliant.			
2.10	Regeneration shall be passive and not require any input from operator or disrupt work.			
2.11	Engine shall be 7.8 liter - Deutz TCD 7.8 L6 six-cylinder, with electronically controlled fuel injection for precise timing.			
2.12	Engine shall have the capability to operate in two power modes based on operator choice.			
2.13	Engine bore shall be 4.33 in (110 mm) and stroke shall be 5.35 in (136 mm).			
2.14	Engine shall be direct injection turbocharged for reliability, durability and performance.			
2.15	Engine shall have a high pressure common rail fuel system.			
2.16	850 CCA (minimum capacity) maintenance free batteries mounted in bolt-on, lockable battery			
2.17	Mechanical fuel priming pump and fuel/water separator shall be standard. Fuel filters should be replaced as dry and primed automatically to minimize fuel contamination.			
2.18	Easily accessible Emergency Engine Shutdown switch shall be standard.			
2.19	Machine shall have an alternator with 70 amps or greater.			
2.2	Machine shall be standard equipped with a three-stage Pre-Cleaner for engine air intake (1. course filter, 2. fine filter, 3. centrifugal filter).			
2.21	Machine shall be standard equipped with a backup alarm.			
2.22	Machine shall have a standard master battery disconnect switch accessible from ground level.			
2.23	Engine shall have a 4 valve per cylinder crossflow head.			
2.24	Machine ECM shall automatically derate the engine for protection during overheating.			
2.25	Engine shall be contained in a sealed compartment, separated from the cooling compartment by a firewall, to prevent potential			

Section 3 - Powertrain/Transmission

Specification Number	Specification Description	Specification Compliance		
		Complian	Non-	Notes
3.1	Machine shall have a forward/neutral/reverse switch standard on the implement control			
3.2	Machine shall be equipped with a powershift transmission with four forward and four reverse speed ranges with a maximum speed of 25 mph (40.2 kph) forward and 16 mph (25.7 kph)			
3.3	Machine shall have ground accessible ports to sample engine and transmission oil.			
3.4	Machine shall have transmission oil sight gauge and fill spout on the same side of the machine.			
3.5	Machine shall have the ability to electronically set the maximum machine speed to comply with site specific multiple speed limit zones.			
3.6	Machine shall have an manual clutch cutoff button located in floor next to brake pedal			
3.7	Machine shall have the ability to electronically adjust the shift aggressiveness with three modes based upon operator preference.			
3.8	Transmission shall be ZF or equivalent.			

Section 4 - Axles

Specification Number	Specification Description	Specification Compliance		
		Complian	Non-	Notes
4.1	Front axle shall be rigidly mounted to the front loader frame.			
4.2	Rear axle shall have a remote trunnion lubrication fitting to simplify maintenance.			
4.3	Axle configuration shall be hydraulically locking front differential with a conventional rear differential.			
4.4	Seals on the axle and housing shall keep oil in and lock contaminants out to prevent contamination of internal components.			
4.5	Axle shall have fully-enclosed brakes and final drives.			
4.6	Planetary final drives shall be lubricated from the main oil sump.			
4.7	Final drives shall have high contact ratio gears for quiet, durable operation.			
4.8	Axles shall be Dana Spicer or equivalent.			

Section 5 - Brakes

Specification Number	Specification Description	Specification Compliance		
		Complian	Non-	Notes
5.1	Service brake shall feature completely closed and sealed standard outboard oil-immersed disc brakes on front and rear axles that are adjustment			
5.2	Audible alarm and Indicator light shall alert operator if brake pressure drops below normal operating parameters.			
5.3	Machine shall have continually charged nitrogen accumulators to provide stopping capability after loss of engine power.			
5.4	Machine shall feature an electronic park brake switch mounted in operator station on panel.			

5.5	Parking brake shall be disk and caliper type on driveline for positive operation which is spring applied and hydraulically released. The transmission shall be automatically neutralized when parking brake is applied.			

Section 6 - Hydraulic System

Specification Number	Specification Description	Specification Compliance		
		Complian	Non-	Notes
6.1	Maximum working pressure shall be 3916 psi (27000 kPa).			
6.2	Minimum hydraulic output at 2100 engine RPM shall be 81 gal/min (307 L/min).			
6.3	Machine shall have standard 3rd function hydraulics available for use with work tools that require hydraulic power			
6.4	Machine shall have an adjustable 3rd function flow feature allowing flow adjustability from 0% to 100% of maximum as standard.			
6.5	Total hydraulic cycle time shall be no more than 10.6 seconds.			
6.6	Double acting lift cylinders shall be 5.9” X 31.1” (150 X 790 mm).			
6.7	Double acting tilt cylinder shall be 6.3” X 22.1” (160 X 561 mm).			
6.8	Hydraulic attachment system shall detect when the lift and tilt kick outs approach the setting automatically reducing cylinder velocity to provide a smooth stop.			
6.9	Machine shall feature an operator selected electric safety valve to disable implement functions.			
6.10	Attachment hydraulics shall be load-sensing.			
6.11	Seat mounted low effort joystick control shall offer simultaneous lift and tilt functions.			
6.12	Boom lift circuit shall have four positions: raise, hold, lower and float.			
6.13	Tilt circuit shall have three positions: tilt back, hold and dump.			
6.14	Machine shall use hoses with a minimum 4,000 psi (28.0 MPa) working pressure.			
6.15	Steering and implement pumps shall be separate.			
6.16	Machine shall have pressure taps to allow quick diagnosis of complete hydraulic system. Pressures should also be accessible through a 4" color touchscreen monitor.			
6.17	Machine shall have a hydraulically driven, reversible fan.			
6.18	Machine shall have three section implement control valve for lift, tilt and attachment			
6.19	A Ride Control system shall be standard for smooth operation in rough roading conditions. Ride Control system shall be programmable for different speed settings.			

Section 7 - Wheels & Tires

Specification Number	Specification Description	Specification Compliance		
		Complian	Non-	Notes
7.1	Standard radial tire size shall be 23.5R 25 with 3 piece rim.			

Section 8 - Operator's Cabin

Specification Number	Specification Description	Specification Compliance		
		Complian	Non-	Notes
8.1	Front Hinged door shall lock open 90 degrees with the capability to open and close door from the operators seat. Door shall have a swing out glass window.			
8.2	Seat mounted joystick control shall operate both lift and tilt functions. Joystick shall integrate forward/reverse direction switch, and adjustable 3rd function hydraulic control.			
8.3	An Engine Speed Control feature shall be available to set engine RPM which can be set and maintained through the monitor.			
8.4	Standard heated seat shall include cloth with fully adjustable fore/aft position, seat back angle, bottom cushion height, armrest angle and air-suspension stiffness.			
8.5	Automatic cabin climate control shall be standard.			
8.6	Seat shall include a 2" (75 mm) wide retractable seat belt.			
8.7	Front and rear wipers with washers shall be standard.			
8.8	Steps shall have large aggressive-tread steps and shall keep debris buildup to a minimum.			
8.9	Machine shall be equipped with programmable in-cab kick outs for lift, lower, rack and dump kickouts with on the fly adjustments at any			
8.10	(2) 12V outlets for powering electronics, a Bluetooth radio with remote auxiliary input and hands free calling, adjustable sun screen for front and rear window, external mirrors with heated defrost.			
8.11	Machine cab shall meet ROPS and FOPS criteria, regulations for sound exposure and ISO 3449:2005 and ISO 3471:2008.			
8.12	Machine shall have gauges including hydraulic, engine and transmission temperatures as well as fuel level.			
8.13	Warning/indicator and diagnostic functions shall include: Primary steering malfunction, electrical system voltage low, coolant temperature, engine oil pressure low, parking brake applied, brake charge pressure low, transmission oil temperature, transmission oil filter bypass, and hydraulic oil filter bypass.			
8.14	Machine shall have an additional mounting provisions with a power connection in cab for auxiliary equipment as standard			
8.15	Auxiliary LED front and rear working lighting packages shall be included.			
8.16	Machine shall have a 7" color touchscreen LCD display in the cab with capabilities of enhanced diagnostics, machine control adjustments, and detailed system parameters for machine and engine including fuel consumption.			
8.17	Machine shall have the ability to provide Maintenance reminders based on hours of			
8.18	Machine shall be standard equipped with a 360 degree camera system visible within the 7" color touchscreen monitor.			
8.19	Operator station shall expose the operator to sound pressure of no greater than 79 dB(A) inside and 109 dB(A) outside			

Section 9 - Machine Serviceability

Specification Number	Specification Description	Specification Compliance		
		Complian	Non-	Notes
9.1	Radiator, transmission and charge air cooler shall be vertically stacked. Hydraulic oil cooler and a/c condenser will swing away a minimum 60°.			
9.2	All service points shall be accessible from ground level, on the same side of the machine.			
9.3	Radiator coolant and transmission and hydraulic oil levels shall have sight gauges.			
9.4	Spin on filters for engine oil and hydraulic oil shall be vertically mounted for easier servicing.			
9.5	Scheduled oil sampling ports shall be factory installed for improved access to engine, transmission and hydraulic oils.			
9.6	Machine shall have easy access to engine and cooling compartments through a rear access door that swings up			
9.7	Cooling fan shall be hydraulically driven and separate from the engine compartment.			
9.8	Machine shall have a standard automatic reversing fan with programmable controls within			
9.9	Machine error codes shall be accessible from the standard 7" color touchscreen monitor.			
9.10	Standard service features shall include: Standard hydraulic oil cooler; adjustment free brakes; adjustment free engine fuel system; grouped grease fittings; positive torque hose clamps; braided, color coded, labeled and numbered			
9.11	Machine shall have remote drains for engine and hydraulic oil accessible from ground level.			
9.12	Machine shall have a full machine warranty for 5 years or 5,000 hours and shall include travel time/mileage to the Port of Oswego.			
9.13	Hydraulic site gauge shall be visible from ground with operator station door open or closed.			

Section 10 - Machine Service Fill Capacity Minimums

Specification Number	Specification Description	Specification Compliance		
		Complian	Non-	Notes
10.1	Fuel tank shall have a 85 gal (321.8 L) capacity.			
10.2	DEF Fluid tank shall have a 10.5 gal (39.4 L) capacity.			
10.3	Cooling system shall have a 5.25 gal (19.9 L) capacity.			
10.4	Crankcase shall have a 6.1 gal (23 L) capacity.			
10.5	Transmission shall have a 4.7 gal (17.8 L)			
10.6	Hydraulic system (including tank) shall have a 76.6 gal (290 L) capacity.			
10.7	Hydraulic tank shall have a 31 gal (117.3 L) capacity.			
10.8	Differentials and final drives capacities shall a minimum capacity: front 5 gal (19L) rear 5 gal (19L)			

Section 11 - Additional Specifications

Specification Number	Specification Description	Specification Compliance		
		Complian	Non-	Notes
11.1	Unit shall come with a full machine warranty, including parts and labor for required repairs, for a period of 5 years / 5,000 hours, whichever occurs first, as standard at no extra charge.			
11.2	Unit shall come standard with operator, preventative maintenance, and safety training within 30 days of delivery at no extra charge.			
11.3	Machine shall have a standard cellular based remote management system with web interface to monitor critical system parameters from a remote location with no annual subscription fees!			
11.4	Successful bidder shall be responsible for removing the Port of Oswego's existing Loadrite scale system from their machine and then reinstalling and calibrating the scale system onto			
11.5	Successful bidder must be a fully authorized dealer for product being furnished and must have a full trained service staff and parts supply at their facility. Successful bidder's main facility and shop must be located no more than 60 miles from the Port of Oswego's location.			