



THE CORPORATION OF THE CITY OF NIAGARA FALLS

REQUEST FOR TENDER

**RFT29-2019 - SUPPLY & DELIVERY OF
ONE (1) ARTICULATED WHEEL LOADER**

SPECIFICATIONS

NAME OF COMPANY (DEALER): _____

ITEM/CATEGORY	CITY REQUIREMENTS	BIDDER TO STATE SPECIFICATIONS
Make		
Year	New	
Model	930M or equivalent	
New		
Engine	7.1 L. 6 Cyl Diesel Turbo charged / min. 188 hp Tier 4 Configurable auto idle shut down based on time and ambient temperature to further reduce fuel burn and keep operating costs low. Power Machine shall have automatic idle engine shutdown feature as standard. Machine shall have easy access to engine and cooling compartments through two (2) gull wing doors that swing up and are held in place with lockable gas struts. A full DEF Fluid tank shall last for at least 4 full fuel tanks Diesel Particulate Filter should not require service for the life of the engine	
Power & Fuel sensing	Intelligent power Management	
In Cab Sound Level	With Cooling Fan at Max speed, Operators Sound Pressure Level should be 73.0 dB(A)	
Ground Clearance	460 mm	
Tipping Load on Full Turn	19,000 IB.	

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ITEM/CATEGORY	CITY REQUIREMENTS	BIDDER TO STATE SPECIFICATIONS
Transmission Driveline	Automatic Power Shift Fully automatic gear-shifting, 1-4 PWM-controlled gear-shifting Forward and reverse switch by hydraulic lever console Indicator glass for transmission oil level Differentials: Front, 100% hydraulic diff lock. Rear, conventional. lock-up first gear Four-wheel-drive Must Have Ride Control Independent service brakes on front and rear axles provide robust stopping performance while a push button electronic park brake allows you to safely secure the machine with ease.	
Bucket Pin Height	14'	
CAB	RoPS (ISo 3471), FoPS (ISo 3449) Single key kit door/start • Acoustic inner lining Cigarette lighter, 24 V power outlet lockable door Cab heating with fresh air inlet and defroster Fresh air inlet with two filters Floor mat Dual interior lights Interior rear-view mirrors Dual exterior rear-view mirrors Sliding window, right side Tinted windshield glass Retractable seatbelt (SAE J386) Adjustable steering wheel Storage compartment Document pocket Sun visor Beverage holder Windshield washer front and rear Windshield wipers front and rear AM FM Radio	

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	Seat-mounted controls featuring a low effort joystick for lift and tilt functions along with integrated Forward/Neutral/Reverse switch, differential lock trigger and optional third and fourth auxiliary functions. Fully adjustable controls including steering column, joystick and seat suspension	
Steering	Steering system: Load-sensing hydrostatic articulated steering. System supply: The steering system has priority feed from a load-sensing axial piston pump with variable displacement. Steering cylinders: Two double-acting cylinders Machine shall have optional Dual mode steering allowing operator to turn steering wheel only 50 degrees left or right of center to reach full articulation reducing operator effort	
Turn Radius to outside of Tires	5400. mm	
Wheel Base	11' 2"	
Operating weight	41,554 lb.	
Tires	20.5 / R25 L3	
Width Over Tires	2540. mm / 8 FT 4 in.	
Brakes	Dual brake circuits Dual brake pedals Secondary brake system Parking brake, electro-hydraulic Brake-oil cooler and filter front & rear axle Stainless steel, brake lines • wear indicators Machine shall have optional Dual mode steering allowing operator to turn steering wheel only 50 degrees left or right of center to reach full articulation reducing operator effort	
Electrical System	24 V, pre-wired for optional accessories Alternator 24V/80A/2280W	

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ITEM/CATEGORY	CITY REQUIREMENTS	BIDDER TO STATE SPECIFICATIONS
	Battery disconnect switch Fuel gauge Hour meter Electric horn Instrument cluster: Fuel level Diesel Exhaust Fluid/Ad-Blue level Transmission temperature Coolant temperature Instrument lighting lighting: Twin halogen front headlights with high and low beams Parking lights Double brake and tail lights Turn signals with flashing hazard light function Amber / Blue Beacon LED light LED Work lights	
External Equipment	Orange hand rails Fenders, front and rear Viscous cab mounts Rubber engine and transmission mounts Frame, joint lock Vandalism lock prepared for Engine compartment Radiator grille" lifting eyes Tie-down eyes Fabricated counterweight Counter weight, pre-drilled for optional guards	
Bucket	3 Yard bucket / quick connect mechanism. Controlled from in cab. Bucket cutting edge width shall exceed tire width Quick Attach for Construction Forks H.D. Z-bar with integrated tool carrier capabilities and High Lift Linkage; with Parallelism Function.	

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ITEM/CATEGORY	CITY REQUIREMENTS	BIDDER TO STATE SPECIFICATIONS
Break Out Force		
Air Conditioning	Factory Installed	
Hydraulics	<p>1. Unit must be equipped with a main hydraulic system with two load sensing axial piston pumps with variable displacement and a pilot operated main valve.</p> <p>2. Hydraulic system shall have a common tank for steering, working and brake hydraulic oil, located so it provides gravity oil feed to the pumps.</p> <p>3. Hydraulic tank shall have a minimum capacity (112 liters).</p> <p>4. All return oil from the main, steering, and brake hydraulics must be filtered through a 10 micron full flow filter (absolute rating) before returning to tank.</p> <p>5. System reservoir must include a sight gauge for fluid level check.</p> <p>6. Lift circuit will be capable of four functions; raise, hold, lower and float; as well as an automatic (adjustable from inside the cab) boom kick-out for top and return to dig by using the lever detent.</p> <p>7. Tilt circuit will be capable of three functions; rollback, hold and dump; as well as an automatic (adjustable from inside the cab) bucket leveler by using the lever detent.</p>	
Ride Control	Ride Control when working unloaded and loaded with excellent material retention.	

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ITEM/CATEGORY	CITY REQUIREMENTS	BIDDER TO STATE SPECIFICATIONS
Reverse Camera	Must be equipped with reverse camera	
Spare Filters	Supply one set of complete Filters for Machine	
Warranty		
Service Diagnostics	Software for Scanning	
Manuals	Parts and Operator's	
Manuals	Repair Manual	
City's rights	Loader will be Demoed at City Yard before purchase agreement.	
Delivery		