## **CITY of NOVI CITY COUNCIL**



### Agenda Item 3 August 25, 2008

SUBJECT: Approval to purchase one Front End Loader from JDE Equipment in the amount of \$139,400.

## SUBMITTING DEPARTMENT: DPW

CITY MANAGER APPROVAL

EXPENDITURE REQUIRED	\$139,400
AMOUNT BUDGETED	\$145,000
APPROPRIATION REQUIRED	N/A
LINE ITEM NUMBER	101-442.00-984.000

#### **BACKGROUND INFORMATION:**

A front end loader is utilized daily for loading dirt, debris, road salt, to unload gravel trains, and snow removal operations.

We evaluated the 7 bids we received in response to our RFP and recommend purchasing the loader from JDE Equipment, the low qualified bidder.

Company	Trade-In Value of Existing DPW Loader	Total Cost	
A.I.S.	\$ 6,000	\$ 141,200	
Bobcat of Motor City	2,700	192,621	
Michigan CAT	8,000	142,650	
JDE Equipment	9,500	139,400	┢
*JDE Equipment	9,500	173,300	
*Southeastern Equipment Co. (copy of specifications attached)	12,000	124,350	
*Southeastern Equipment Co.	12,000	141,640	

\* Did not meet bid specifications

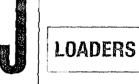
# **RECOMMENDED ACTION:** Approval to purchase one Front End Loader from JDE Equipment in the amount of \$139,400.

	1	2	Y	Ν
Mayor Landry				
Mayor Pro Tem Capello				
Council Member Crawford				
Council Member Gatt				

	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Staudt		1		



128-198 NET HORSEPOWER





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Better and the second and the			PRIMARY	BID
	PURCHASING 45175 W. T NOVI, N	VI, MICHIGAN DEPARTMENT EN MILE RD. AI 48375 47-0446		
cityofnovi.org 4-WHEEL	DRIVE LOADER SIGNATU	- DEERE 624J C IRE FORM	DR SIMILAR	
Bid submitted by:			Lalisa VII BUTA	
Name (printed)	ROBINSON		SMES MAN	<u>ha</u> m
Company (Legal Registration	JAE EQ	UIPMONT CI	m PAN	
Address <u>54555</u>	<b>Λ</b>		,	
City NEW HUDSON			Zip 48165	
Telephone 248 437	- 8121	Fax 248	437- 9750	
E-mail Crobinson @	Diderquip	. Com		
Signature	= Hati		7/24/08	
For information on respondin smorianti@cityofnovi.org	g to this bid, contac	xt Sue Morianti – Pr	urchasing Manager, at	

Submittal of Bids: Bids must be delivered prior to the due date and time specified above to the City of Novi, Office of the City Clerk, 45175 W. Ten Mile Rd., Novi, Michigan 48375. Bids must be submitted by person or mail. Faxed bids will not be accepted.

THE BID ENVELOPE MUST BE IDENTIFIED WITH THE FULL BID NAME AND DUE DATE.

#### THIS PAGE IS PAGE ONE OF THE PROPOSAL FORM. FAILURE TO SUBMIT PRICING ON THE PROPOSAL FORM PROVIDED BY THE CITY OF NOVI MAY CAUSE THE BID TO BE CONSIDERED NON-RESPONSIVE AND INELIGIBLE FOR AWARD.

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## CITY OF NOVI PROPOSAL FORM

#### 4-WHEEL DRIVE LOADER – DEERE 624J OR SIMILAR

We the undersigned as bidder, propose to furnish to the City of Novi, according to the conditions and instructions attached hereto and made a part thereof according to the attached terms and conditions.

A. 4-Wheel Drive Loader, Deere 624J or Similar
Make/Model JOHN NOTHE 6245 \$ 145,600.00
ALTERNATE #1 Optional bucket mounted fork set including cost to weld mounting hooks on back of bucket \$ 3,300.
ALTERNATE #2 Trade In: 1982 Ford Loader A64 Hours: 4966 $\begin{pmatrix} & & \mathcal{A}_1 \\ & & \mathcal{A}_1 \\ & & \mathcal{A}_1 \\ & & \mathcal{A}_2 \\ & & \mathcal{A}_1 \\ & & \mathcal{A}_2 \\ & & \mathcal{A}_1 \\ & & \mathcal{A}_2 \\ & & \mathcal{A}_2 \\ & & \mathcal{A}_2 \\ & & \mathcal{A}_2 \\ & & \mathcal{A}_1 \\ & & \mathcal{A}_2 \\ & & & & \mathcal{A}_2 \\ & & & & \mathcal{A}_2 \\ & & & & & \mathcal{A}_2 \\ & & & & & & & & & & & & & & & & & & $
TOTAL (A. + ALTERNATE 1 + ALTERNATE 2) $\$ 139,400.\%$ Delivery <u>30 TO 45 AMS A.R.O.</u>
Delivery 30 10 13 14195 14:00
We acknowledge receipt of the following Addendums: (please indicate numbers below)
We acknowledge receipt of the following Addendums:

## 4 WHEEL DRIVE LOADER SPECIFICATIONS - DEERE 624J OR SIMILAR

#### Compliance

1		Engine
yes 🗸	no	Six Cylinder, turbocharged, charge air cooled diesel engine and shall be designed and built by the manufacturer
yes	no	Engine shall be certified to Tier 3 non-road emission standards
yes 🗸	no	Engine shall have a wet-sleeve cylinder liner design for improved cylinder cooling over dry sleeve and cast-in-bore design and for improved cylinder and piston ring durability.
yes 🏒	no	Engine displacement shall be no less than 6.8 liters (414 cu. In.)
yes_	no	Engine rated net peak power shall be no less than 198 hp (147 kW) @ 1800 rpm
yes 🗸	no	Engine rated peak net power shall be no less than 180 hp @ 1,800 rpm, gross horsepower shall not be considered.
yes_/_	no	Engine shall develop at least a 55% torque rise and should have at least 617 lb-ft (836 Nm) @1600 rpm net peak torque
yes_	no	Fuel system shall be high-pressure, common rail
yes 🗸	no	Daily check points shall be accessible from one side of the engine and shall be done from ground level
yes_/	no	Under-hood engine air cleaner shall be dry type, dual element with an restriction sensor and in-cab restriction warning light
yes	no	Under hood pre-screened air intake to minimize plugging
yes 🖌	no	Access to engine will be open from both sides with side opening, full access service doors
yes_🗸	no	Engine shall have no less than 10-micron rated primary fuel filter with water separator
yes_	no	Loader shall be equipped with a heavy-duty steel fuel tank guard
yes_	no	Service interval for the engine oil and filter shall be 500 hours
yes 🗸	no	The electrical system shall be 24 volt with 80 amp alternator
yes 🗸	no	Unit shall have glow plugs or equivalent for cold start aid.
yes_/	no	Unit shall be equipped with centrifugal engine air precleaner Cooling
yes_V	no	Unit shall have a proportionally controlled, hydraulically driven, 90 degree-swing-out fan, standard equipment
yes 🖌	no	The unit will have two-side access to all coolers
yes 🖌	no	Air intake shall be pre-screened (3 mm perforations) for each cooling component
yes 🗸	no	Cooling system shall be isolated from the engine compartment
yes 🖌	no	Unit shall have a coolant recovery tank provided
yes 🖌	no	Unit shall have a fan-guard
yes_/_	no	Fluid levels should be easily checked by sight gauges or overflow tank Power Train
yes	no	Unit shall have a torque-converter, power shift transmission 4 forward, 3 reverse gears
yes_	no	The transmission shall be electronically controlled, adaptive, with load and speed dependent shift modulation
yes_	no	Shift modes shall be auto or manual, auto to 1st or 2nd, kick down or kick up/down
yes 🖌	no	The transmission clutch calibration shall be engage able from the cab monitor and shall have three clutch cutoff settings adjustable on the switch pad
yes	no	Service interval for the transmission oil filter shall be 1000 hours
yes_V	no	Unit shall have joystick mounted F-N-R and gear-select lever, kick-down button on hydraulic lever. Will also have quick shift feature that allows pushbutton gear changes, one gear at a time

yes 🗸	no	Sight gauge showing transmission fluid shall be at ground-level
yes_	no	Transmission filter restriction shall be displayed in the cab
yes 🗸	no	The transmission shall be able to reach 24.6 mph in 4th gear and 16 mph in third
		gear.
1		Axles/Brakes
yes_	no	The final drives shall be heavy-duty inboard planetary
yes_	no	The driveline shall not need lubrication, supplied with lube-for-life
yes_	no	The loader shall have two brake pedals with an activation switch to allow left brake
yes 🗸	no	pedal to switch between brake neutralizer or brake only function. The service brake shall be hydraulically actuated, inboard, sun shaft mounted,
ycs <u>v</u>		pressure oil cooled, self-adjusting, single disc sealed from water, mud and dust
,		contamination
yes	no	The parking brake shall be automatic, spring applied, hydraulically released, oil
1		cooled, multi-disc and sealed from water, mud and dust contamination
yes	no	Rear axle shall not have less than 24 degree total oscillation, stop to stop
yes 🗸	no	The dipstick port and housing fill shall be at the top of the axle
yes 🗸	no	The front and rear axles shall have hydraulically actuated, disc clutch style, locking
		differentials for maximum traction when required but with less tire wear than limited
		slip or no-spin differentials
yes 🗸	no	Hydraulic System Hydraulic filter shall be spin-on, vertical mounting with service interval of 500 hours
yes_v_	110 <u> </u>	The hydraulic fluid shall have a rated life of 4000 hours
ves 🗸	no	The hydraulic system shall be pressure-compensating load-sensing for reduced fuel
,		consumption and better fluid heating compared to open center hydraulic systems
yes 🗸	no	Hydraulic tank capacity should be no less than 32 gallons for extended hydraulic fluid
/		intervals and cooler system temperature
yes_	no	Unit will be provided with automatic bucket return-to-dig control
yes_	no	Automatic boom height kick out control will be in cab adjustable
yes 🗸	no	Unit shall be equipped with either single-lever joystick or two-lever fingertip pilot-
yes /	no	operated controls
ves /	no	Automatic boom return to carry control will be in cab adjustable A sight gauge will be provided for checking hydraulic reservoir fluid
yes_	no	The unit shall be provided with hydraulic system oil cooler for continuous running
, <u>, , , , , , , , , , , , , , , , , , </u>		attachments and extreme temperatures.
yes 🖌	no	Hydraulic pump shall be variable-displacement, axial-piston pump: closed-center,
		pressure-compensating system
yes_	no	Loader steering articulation angle shall be no less than 80 degrees, 40 degrees in
1		each direction
yes_	no	Unit shall be equipped with Ride Control, automatic with monitor-adjustable speed
		settings. Electrical
ves	no	Two batteries shall be included, 12 volt, 950 CCA, 200-min. rated reserve
yes	no	The unit shall have a solid-state electrical power distribution system using circuit
		board technology and solid-state switches
yes_	no	The unit shall be provided with a master electrical disconnect switch
yes_	no	Cab will be wired for rotating beacon
yes_	RO	The in-cab switch module shall be sealed to keep out dirt, dust and airborne debris
yes_V	no	Unit shall be equipped with driving lights with guards, turn signals and flashers, stop
		and tail lights. The tail lights shall be LED type mounted high up in the rear grille for
		protection from damage and better sight visibility and shall have a normal service life
		equal to the machine.

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	no	
ycs		Unit shall be equipped with analog gauges for: engine coolant temperature, transmission oil temperature, fuel level hydraulic oil temperature, engine oil pressure
ves 🗸	no	Unit shall have digital readout for: engine rpm, odometer, transmission gear indicator,
,	, <u> </u>	speedometer, hour meter
yes_	no	Unit shall have operator warning lights for: check engine, engine oil pressure, engine
		air restriction, battery voltage, transmission filter restriction, brake pressure, hydraulic oil filter, fasten seat belt, transmission fault, hydraulic oil temperature
/		Operator Station
yes 🖌	no	Unit shall be equipped with canopy with ROPS/FOPS protection, and be multi-plane
, <u>-</u>		isolation mounted for noise/vibration reduction. Cab shall include air conditioner,
		heater, defroster and pressurizer, Air Suspension Fabric Seat with Joystick Wrist
		Rest, front and rear intermittent windshield wipers and washers and (1) inside and (2)
/		outside rear view mirrors, Front Sun Visor, Left and right rear side windows open 2.5" for ventilation.
yes	no	3" retractable seat belt shall be provided
yes 📈	no	Steering wheel shall be tiltable
yes	no	3-point contact at all times at the front and rear of the loader and around the roof-line
yes 🗹	no	The cab shall have continuous and unobstructed glass from roofline to floor for
,		visibility in tight quarters.
yes_	no	Cab shall be equipped with AM/FM/WB Radio and Headliner
yes 🗸	no	A seat backrest extension will be standard
yes 🗸	no	Cab shall have cup holder. personal cooler holder/storage compartment for operator's manual, rubber floor mat
yes 🗸	no	Cab shall be equipped with 10 amp Converter with (2) 12V Power Ports
•		General Specifications
yes_	no	Unit shall be equipped with 23.5 R 25, L-3T tires with multi-piece rims
yes_	no	Front tires shall be covered with fenders
yes_	no	The counterweight shall be built-in
yes_	no	Unit will be provided with a rear cast bumper/counterweight with integral drawbar with
yes 🗸		
	no	locking pin
·	no	Unit shall have an articulation locking bar (conforms to SAE J276)
yes_	no no	Unit shall have an articulation locking bar (conforms to SAE J276) Unit shall have a vandal protection package that includes a lockable engine
yes Z		Unit shall have an articulation locking bar (conforms to SAE J276)
yes_∕ yes_∕	no no	Unit shall have an articulation locking bar (conforms to SAE J276) Unit shall have a vandal protection package that includes a lockable engine enclosure, fuel fill The unit shall be provided with a loader boom service locking bar (conforms to SAE J38)
yes yes	no no no	Unit shall have an articulation locking bar (conforms to SAE J276) Unit shall have a vandal protection package that includes a lockable engine enclosure, fuel fill The unit shall be provided with a loader boom service locking bar (conforms to SAE J38) Loader shall have reinforced articulation joints with double tapered roller bearings
yes_/ yes_/ yes_/	no no no	Unit shall have an articulation locking bar (conforms to SAE J276) Unit shall have a vandal protection package that includes a lockable engine enclosure, fuel fill The unit shall be provided with a loader boom service locking bar (conforms to SAE J38) Loader shall have reinforced articulation joints with double tapered roller bearings Fuel tank capacity shall be no less than 93 gallons (352L)
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yes_/ yes_/ yes_/ yes_/ yes_/	no no no no no	Unit shall have an articulation locking bar (conforms to SAE J276) Unit shall have a vandal protection package that includes a lockable engine enclosure, fuel fill The unit shall be provided with a loader boom service locking bar (conforms to SAE J38) Loader shall have reinforced articulation joints with double tapered roller bearings Fuel tank capacity shall be no less than 93 gallons (352L) Operating weight with standard equipment, 20.5R25 tires, ROPS cab, 3.5 cu yd general purpose bucket with bolt on edge, 175 lb operator and full fuel tank shall be no less than 32,290 lbs (15 100 kg) Bucket breakout force shall be no less than 28,483 lbs (12 920 kg) with manufacturers standard Z-Bar with pin-on 3.5 cu yd pin on bucket and standard configuration
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yes_/ yes_/ yes_/ yes_/ yes_/ yes_/ yes_/ yes_/	no no no no no no no	Unit shall have an articulation locking bar (conforms to SAE J276) Unit shall have a vandal protection package that includes a lockable engine enclosure, fuel fill The unit shall be provided with a loader boom service locking bar (conforms to SAE J38) Loader shall have reinforced articulation joints with double tapered roller bearings Fuel tank capacity shall be no less than 93 gallons (352L) Operating weight with standard equipment, 20.5R25 tires, ROPS cab, 3.5 cu yd general purpose bucket with bolt on edge, 175 lb operator and full fuel tank shall be no less than 32,290 lbs (15 100 kg) Bucket breakout force shall be no less than 28,483 lbs (12 920 kg) with manufacturers standard Z-Bar with pin-on 3.5 cu yd pin on bucket and standard configuration Ground clearance under the loader shall be no less than 13 ft (3.96 m) Machine Full turn tipping load shall be at least 27,070 lbs with standard Z bar and GP 3.5 pin-on cu yd bucket.
yes_/ yes_/ yes_/ yes_/ yes_/ yes_/ yes_/ yes_/ yes_/	no no no no no no no	Unit shall have an articulation locking bar (conforms to SAE J276) Unit shall have a vandal protection package that includes a lockable engine enclosure, fuel fill The unit shall be provided with a loader boom service locking bar (conforms to SAE J38) Loader shall have reinforced articulation joints with double tapered roller bearings Fuel tank capacity shall be no less than 93 gallons (352L) Operating weight with standard equipment, 20.5R25 tires, ROPS cab, 3.5 cu yd general purpose bucket with bolt on edge, 175 lb operator and full fuel tank shall be no less than 32,290 lbs (15 100 kg) Bucket breakout force shall be no less than 28,483 lbs (12 920 kg) with manufacturers standard Z-Bar with pin-on 3.5 cu yd pin on bucket and standard configuration Ground clearance under the loader shall be no less than 17.1 in (434 mm) Unit shall have height to hinge pin no less than 13 ft (3.96 m) Machine Full turn tipping load shall be at least 27,070 lbs with standard Z bar and GP 3.5 pin-on cu yd bucket. Dump clearance at 45 degrees at full height shall be no less than 9 ft 5 in (2.87 m)
yes_/ yes_/ yes_/ yes_/ yes_/ yes_/ yes_/ yes_/	no no no no no no no	Unit shall have an articulation locking bar (conforms to SAE J276) Unit shall have a vandal protection package that includes a lockable engine enclosure, fuel fill The unit shall be provided with a loader boom service locking bar (conforms to SAE J38) Loader shall have reinforced articulation joints with double tapered roller bearings Fuel tank capacity shall be no less than 93 gallons (352L) Operating weight with standard equipment, 20.5R25 tires, ROPS cab, 3.5 cu yd general purpose bucket with bolt on edge, 175 lb operator and full fuel tank shall be no less than 32,290 lbs (15 100 kg) Bucket breakout force shall be no less than 28,483 lbs (12 920 kg) with manufacturers standard Z-Bar with pin-on 3.5 cu yd pin on bucket and standard configuration Ground clearance under the loader shall be no less than 13 ft (3.96 m) Machine Full turn tipping load shall be at least 27,070 lbs with standard Z bar and GP 3.5 pin-on cu yd bucket.

**Frames and Structures** ves 🖌 no\_\_\_\_ Unit shall have 3.5 Cu Yd GP Pin-on Bucket with Bolt-on Cutting Edge and (2) Hooks mounted on top of bucket. no Machine front frame shall be of a 4-plate design of four vertical plates extending from boom pivot pins reaching to the front axie to distribute boom loads on the axie. The design is superior to the two-plate frames yes no Loader bucket bell crank linkage shall be fabricated of high strength steel for increased durability and strength over castings. Machine shall be equipped with an exterior mounted, ground level storage yes no compartment THE EQUIPMENT CAMPANY Company name Authorized signature 08 Date

CITY OF NOVI, MICHIGAN PURCHASING DEPARTMENT 45175 W. TEN MILE RD. NOVI, MI 48375 (248) 347-0446 4-WHEEL DRIVE LOADER - DEERE 624J OR SIMILAR SIGNATURE FORM						
Bid submitted by:						
Name (printed) DENNIS A. KEMENY						
Company (Legal Registration) South EASTERN EQUIPHENT COMPANY, INC.						
Address 48545 GRAND RIVER AVE.						
City <u>Novi</u> State <u>Mi</u> Zip <u>48374</u>						
Telephone <u>248-349-9922</u> Fax <u>248-349-9191</u>						
E-mail dkenony@southeasternequip.com						
Signature Mennis A. Kermeny Date Date Date						
For information on responding to this bid, contact Sue Morianti – Purchasing Manager, at smorianti@cityofnovi.org						

Submittal of Bids: Bids must be delivered prior to the due date and time specified above to the City of Novi, Office of the City Clerk, 45175 W. Ten Mile Rd., Novi, Michigan 48375. Bids must be submitted by person or mail. Faxed bids will not be accepted.

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#### 4 WHEEL DRIVE LOADER SPECIFICATIONS - DEERE 624J OR SIMILAR

(1997) (1997) (1997)

#### Compliance

			Engine
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	yes_X_	no	Engine shall be certified to Tier 3 non-road emission standards
	yes	no <u>X</u>	Engine shall have a wet-sleeve cylinder liner design for improved cylinder cooling over dry sleeve and cast-in-bore design and for improved cylinder and piston ring durability.
6.7	yes	no <u>X</u>	Engine displacement shall be no less than 6.8 liters (414 cu. In.)
18345P	yes		Engine rated net peak power shall be no less than 198 hp (147 kW) @ 1800 rpm
173.45P	_ yes	no <u>X</u>	Engine rated peak net power shall be no less than 180 hp @ 1,800 rpm, gross horsepower shall not be considered.
605/1400	د	no_ <u>X</u> _	Engine shall develop at least a 55% torque rise and should have at least 617 lb-ft (836 Nm) @1600 rpm net peak torque
	yes_X_	no	Fuel system shall be high-pressure, common rail
	yes	no <u>×</u>	Daily check points shall be accessible from one side of the engine and shall be done from ground level - GROWID LEVAL - 251055
	yes_X	no	Under-hood engine air cleaner shall be dry type, dual element with an restriction sensor and in-cab restriction warning light
	yes_X	no	Under hood pre-screened air intake to minimize plugging
Tat Hedd		no	Access to engine will be open from both sides with side opening, full access service doors
1	yes X	no	Engine shall have no less than 10-micron rated primary fuel filter with water separator
	yes <u>X</u>	no	Loader shall be equipped with a heavy-duty steel fuel tank guard
	yes_ <u>X</u> _	no	Service interval for the engine oil and filter shall be 500 hours
65AMP	yes	no <u>X</u>	The electrical system shall be 24 volt with 80 amp alternator
	yes <u>X</u>	no	Unit shall have glow plugs or equivalent for cold start aid.
	yes <u>X</u>	no	Unit shall be equipped with centrifugal engine air precleaner
COOLING		. 4	Cooling
Hopie	yes	no <u>_X</u> _	Unit shall have a proportionally controlled, hydraulically driven, 90 degree-swing-out fan, standard equipment - W1774 Revensive Pand
	yes_X	no	The unit will have two-side access to all coolers
	yes_X	no	Air intake shall be pre-screened (3 mm perforations) for each cooling component
	yes_X	no	Cooling system shall be isolated from the engine compartment
	yes_X	no	Unit shall have a coolant recovery tank provided
	yes_X	no	Unit shall have a fan-guard
	yes_X	no	Fluid levels should be easily checked by sight gauges or overflow tank Power Train
	yes_X	no	Unit shall have a torque-converter, power shift transmission 4 forward, 3 reverse gears
	yes <u>X</u>	no	The transmission shall be electronically controlled, adaptive, with load and speed dependent shift modulation
	yes <u>X</u>	~	Shift modes shall be auto or manual, auto to 1st or 2nd, kick down or kick up/down
	yes	no <u>_X</u>	The transmission clutch calibration shall be engage able from the cab monitor and shall have three clutch cutoff settings adjustable on the switch pad
	yes <u>X</u>		Service interval for the transmission oil filter shall be 1000 hours
	yes	no <u> </u>	Unit shall have joystick mounted F-N-R and gear-select lever, kick-down button on hydraulic lever. Will also have quick shift feature that allows pushbutton gear changes, one gear at a time

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	yes_ <u>X</u> yes_ <u>X</u>	no no	Sight gauge showing transmission fluid shall be at ground-level Transmission filter restriction shall be displayed in the cab
23.6	yes	no 📈	
			Axles/Brakes
ゆっていびれき		no <u>X</u>	
	yes <u>X</u>	no	
	yes <u>X</u>	no	The loader shall have two brake pedals with an activation switch to allow left brake pedal to switch between brake neutralizer or brake only function.
Martinuë Disc	yes	no 🗶	
	yes_X_	no	The parking brake shall be automatic, spring applied, hydraulically released, oil cooled, multi-disc and sealed from water, mud and dust contamination
	yes_ <u>X</u>	no	Rear axle shall not have less than 24 degree total oscillation, stop to stop
	yes_X_	no	The dipstick port and housing fill shall be at the top of the axle
	yes	no <u>_X'</u> _	The front and rear axles shall have hydraulically actuated, disc clutch style, locking differentials for maximum traction when required but with less tire wear than limited slip or no-spin differentials
			Hydraulic System
	yes <u>X</u>	no	Hydraulic filter shall be spin-on, vertical mounting with service interval of 500 hours
	Voc M	<b>D</b> O	The hydraulic fluid shall have a rated life of 4000 hours
	yes <u>y</u>	no	The hydraulic system shall be pressure-compensating load-sensing for reduced fuel consumption and better fluid heating compared to open center hydraulic systems
	yes <u>X</u>	no <u>.</u>	Hydraulic tank capacity should be no less than 32 gallons for extended hydraulic fluid intervals and cooler system temperature
	yes_X	no	Unit will be provided with automatic bucket return-to-dig control
	yes	no 🏏	Automatic boom height kick out control will be in cab adjustable
	yes_ <u>X</u>	no	Unit shall be equipped with either single-lever joystick or two-lever fingertip pilot- operated controls
	yes	no <u>X</u>	Automatic boom return to carry control will be in cab adjustable
	yes <u>X</u>	no	A sight gauge will be provided for checking hydraulic reservoir fluid
	yes <u>X</u>	no	The unit shall be provided with hydraulic system oil cooler for continuous running attachments and extreme temperatures.
	yes <u>X</u>	no	Hydraulic pump shall be variable-displacement, axial-piston pump: closed-center, pressure-compensating system
	yes_X_	no	Loader steering articulation angle shall be no less than 80 degrees, 40 degrees in each direction
	yes <u>X</u>	no	Unit shall be equipped with Ride Control, automatic with monitor-adjustable speed settings.
			Electrical
	yes <u>x</u>	no	Two batteries shall be included, 12 volt, 950 CCA, 200-min. rated reserve
	yes <u> </u>	no	The unit shall have a solid-state electrical power distribution system using circuit board technology and solid-state switches
	yes_ <u>X</u>	no	The unit shall be provided with a master electrical disconnect switch
	yes X	no	Cab will be wired for rotating beacon
1	yes <u> X                                   </u>	no	The in-cab switch module shall be sealed to keep out dirt, dust and airborne debris
	yes <u> </u>	no	Unit shall be equipped with driving lights with guards, turn signals and flashers, stop and tail lights. The tail lights shall be LED type mounted high up in the rear grille for protection from damage and better sight visibility and shall have a normal service life equal to the machine.

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	yes_X_	no	Unit shall be equipped with analog gauges for: engine coolant temperature,
			transmission oil temperature, fuel level hydraulic oil temperature, engine oil pressure
	yes <u>x</u>	no	Unit shall have digital readout for: engine rpm, odometer, transmission gear indicator, speedometer, hour meter
	yes_X_	no	Unit shall have operator warning lights for: check engine, engine oil pressure, engine
			air restriction, battery voltage, transmission filter restriction, brake pressure, hydraulic
			oil filter, fasten seat belt, transmission fault, hydraulic oil temperature Operator Station
	yes <u> Ý</u>	no	Unit shall be equipped with canopy with ROPS/FOPS protection, and be multi-plane
			isolation mounted for noise/vibration reduction. Cab shall include air conditioner, heater, defroster and pressurizer, Air Suspension Fabric Seat with Joystick Wrist
			Rest, front and rear intermittent windshield wipers and washers and (1) inside and (2)
			outside rear view mirrors, Front Sun Visor, Left and right rear side windows open 2.5"
	yes X	no	for ventilation. 3" retractable seat belt shall be provided
	yes 🗴	по	
LINCHAST		no <u>Y</u>	3-point contact at all times at the front and rear of the loader and around the roof-line
	yes_X_	no	
	yes X	no	visibility in tight quarters. Cab shall be equipped with AM/FM/WB Radio and Headliner
	yes X	no	A seat backrest extension will be standard
	yes 🔨	no	Cab shall have cup holder. personal cooler holder/storage compartment for operator's
			manual, rubber floor mat
	yes <u> ½</u>	no	Cab shall be equipped with 10 amp Converter with (2) 12V Power Ports General Specifications
	yes <u>X</u>	no	Unit shall be equipped with 23.5 R 25, L-3T tires with multi-piece rims
	yes <u>Y</u>	no	Front tires shall be covered with fenders
	yes <u>X</u>	no	The counterweight shall be built-in
	yes <u>ʻX</u>	no	Unit will be provided with a rear cast bumper/counterweight with integral drawbar with locking pin
	yes 🗶	no	Unit shall have an articulation locking bar (conforms to SAE J276)
	yes <u></u> X_	no	Unit shall have a vandal protection package that includes a lockable engine
	yes_X_	no	enclosure, fuel fill The unit shall be provided with a loader boom service locking bar (conforms to SAE
		akaaaa w	J38)
	yes <u>X</u>	no	Loader shall have reinforced articulation joints with double tapered roller bearings
2011111	yes	no <u>X</u> no <u>X</u>	Fuel tank capacity shall be no less than 93 gallons (352L)
30,644		110	Operating weight with standard equipment, 20.5R25 tires, ROPS cab, 3.5 cu yd general purpose bucket with bolt on edge, 175 lb operator and full fuel tank shall be no less than 32,290 lbs (15 100 kg)
	yes_X_	RO	Bucket breakout force shall be no less than 28,483 lbs (12 920 kg) with manufacturers standard Z-Bar with pin-on 3.5 cu yd pin on bucket and standard configuration
	yes <u>X</u>	no	Ground clearance under the loader shall be no less than 17.1 in (434 mm)
[	yes <u>'X</u>	no	Unit shall have height to hinge pin no less than 13 ft (3.96 m)
23,933	yes	no <u> X</u>	Machine Full turn tipping load shall be at least 27,070 lbs with standard Z bar and GP 3.5 pin-on cu yd bucket.
9'-4"	yes	no <u> X</u>	Dump clearance at 45 degrees at full height shall be no less than 9 ft 5 in (2.87 m)
	yes X	no	Reach at 45 degree dump, 7 ft clearance shall be no less than 5 ft 2 in (1.58 m)
	yes <u> X</u>	no	Machine will have a strobe light mounted on top of Cab.
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**Frames and Structures** ves 🌾 no Unit shall have 3.5 Cu Yd GP Pin-on Bucket with Bolt-on Cutting Edge and (2) Hooks mounted on top of bucket. yes no y Machine front frame shall be of a 4-plate design of four vertical plates extending from boom pivot pins reaching to the front axle to distribute boom loads on the axle. The design is superior to the two-plate frames no X CAST yes Loader bucket bell crank linkage shall be fabricated of high strength steel for increased durability and strength over castings. Machine shall be equipped with an exterior mounted, ground level storage ves X no compartment OUTHEASTERN EQUIPHENT CO. INC. Company name 🤶 Authorized signature Tomani . . Date 2-26-08