

MISSAUKEE COUNTY ROAD COMMISSION

NOTICE TO BIDDERS

The Missaukee County Road Commission will be accepting sealed bids until 1 p.m., June 13, 2018 at their office at 1199 N. Morey Road, (P.O. Box A) Lake City, Michigan, 49651 for a sweeper.

Specifications can be obtained at 1199 N. Morey Rd., Lake City, MI or by visiting the website at www.mcrc-roads.com.

The Missaukee County Road Commission, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 USC 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Federally-assisted programs of the Department of Transportation issued pursuant to such act, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of gender, disability, race, color, or national origin in consideration for an award.

The Board reserves the right to reject any or all bids, waive any defect in the bids and make awards in any manner deemed to be in the best interest of the Missaukee County Road Commission.

Missaukee County Road Commission

Jack McGee, Chairman

MISSAUKEE COUNTY ROAD COMMISSION

Sweeper

Bids due June 13, 2018 at 1 p.m.

The following specifications are for a sweeper. Specifications are listed below. All components must be installed and in working order. THIS BID FORM MUST BE USED WHEN SUBMITTING A BID and any specification exceptions must be fully explained and will only be considered if advantageous to the Missaukee County Road Commission. BID MUST BE SEALED AND CLEARLY MARKED ON OUTSIDE OF ENVELOPE AS A SEALED BID.

A. FRAME:

The frame shall be welded heavy duty structural steel, 6-inch channel with gussets at all stress points and weld-on front and rear bumpers constructed of 2" x 6" steel tubing. Certified OSHA approved roll-over protection structure meeting ISO 3471:1994 standards with rear view mirror and seat belt.

B. ENGINE:

Minimum 276 cubic inch (4.5 liter) 4-cylinder, tier 4 final diesel, 74 hp at 2,400 RPM. Engine to be balanced, sleeved and completely covered by solid metal vented cover with lockable hinged access doors at rear, right and left sides. Air cleaner to be dual element dry-type with turbine rotary type pre-cleaner mounted at cab height. 12-volt electric system with fuse and circuit breakers enclosed inside operator's control panel station. All wiring shall be one continuous run from diesel engine to operator's control station with 950 CCA battery, 90-amp alternator, ignition key start, variable speed governor and 38- gallon fuel tank. Engine to be mounted on four vibration-isolated motor mounts. Radiator to be of sufficient size and capacity to maintain proper cooling at 120-degree ambient temperature and antifreeze to minus 20 degrees. Oil cooler shall be vertically mounted to the radiator as one unit with hinged rear access door for ease of cleaning.

C. FRONT AXLE:

The front axle shall be 5,000-pound capacity oscillating type with hydraulic disc brakes.

D. REAR AXLE:

The rear axle shall be heavy duty ¾ ton capacity truck-type with leaf spring suspension. Axle to be 4,447-pound capacity powered by a variable speed hydrostatic motor through a two-speed gear box with neutral shift for towing. Minimum road speed shall be 32 MPH. Hydraulic drum brakes with emergency brake and indicator light and buzzer. Emergency park brake system will disable hydrostatic transmission while park brake is engaged.

E. TIRES:

ST225/75R15 load range D with 6-bolt 15" x 6" steel spoke automotive grade wheels. All wheels must interchange front to rear.

F. INSTRUMENTS:

All gauges to be assembled on a common dash visible from the operator's seat. To include display screen with tachometer, volt meter, fuel gauge, hour meter, oil pressure and water temperature gauges and traffic horn. Hand throttle to be T-bar friction-type. Gear box shift selector and electronic joystick control for all brush functions with electronic brush speed control and brush speed red LED indicator lights. No hydraulic valves will be located in the operator's compartment area for safety.

G. TRANSMISSION:

Closed loop, 2.48 cubic inch variable speed hydrostatic pump driving a variable speed hydrostatic motor coupled to a two-speed gear box to provide grade ability up to 45% and neutral shift for towing. Hydrostatic motor shall have a hot oil shuttle built-in for added cooling capacity. Foot control for forward and reverse travel as well as dynamic braking to be dual pedal hydraulic valve-style and be self-centering to return to neutral when foot is removed with positive neutral position to prevent inadvertent movement with engine running.

H. STEERING:

Hydraulic power steering with orbital-type steering unit and dead engine steering. Tilt and telescoping steering wheel.

I. BRUSH HYDRAULICS:

Hydraulic pump shall be pressure-compensated, load sense type with variable displacement pistons and be independent of the hydrostatic pump and motor. Pump shall supply oil to a manifold block with 12-volt electric solenoid spool valves controlling brush on-off, brush speed, brush angle, lift, float and down-pressure. Hydraulic oil cooler shall be of sufficient size to maintain proper oil temperature not to exceed 200 degrees and include a cold start bypass valve. Brush manifold to be located outside operator's compartment for safety and noise level. When engine is dead, the brush shall stay in the up, locked position without the use of any manual valves or switches. Joystick controlled.

J. HYDRAULIC TANK:

Tank to be 25-gallon capacity with a sight level gauge and be constructed of aluminized metal to prevent rusting. Tank to include a 10-micron, in-tank, cartridge-type return filter and replaceable breather filter with vacuum gauge. Transmission filter to be 10-micron replaceable screw-on filter.

K. BRUSH CORE:

8 feet in length, constructed of steel tubing for use of 10" x 32" poly wafer-type brush segments. Brush to be powered by a hydraulic motor with electronic speed control, independent of travel and engine speed, with direct drive motor located inside brush core. Heavy duty shock absorber to be installed on core support frame to maintain core balance. A full-length rubber deflecting shield to be mounted to the sweeper main frame in front of brush. Entire brush to be covered by a 12-gauge metal shield the length of the brush core covering 140 degrees with steel end plates.

L. SWEEPING ANGLE:

Unit shall be capable of sweeping angles from 45 degrees left to right. Brush to be supported by 10 heavy-duty, sealed, roller bearings. Turntable shall have three hanger support arms to provide even brush wear and core balance.

M. CAB:

Tinted safety glass throughout with one large full-view left side entrance door, safety catch and gas shock. Padded suspension seat, retractable seat belt, windshield wiper and washer, rubber floor mat, padded insulation. Pressurized 35,000 BTU air conditioning with condenser mounted in front of the radiator with swing-out access door for cleaning. Roof-mounted condensers are not acceptable. Heater and defroster fan, west coast mirrors, tilt and telescoping steering column. Cab noise level shall not exceed 80 decibels at full operating range and brush engaged. Roll-over protection structure to be mounted on outside of cab compartment.

N. PAINT:

All metal to be prime painted with rust inhibitor primer and two finish coats of lead-free two-part urethane in safety yellow.

O. WARRANTY AND MANUALS:

Manufacturer warrants against operational failure caused by defective material or faulty workmanship during normal operation for 12 months from the date machine is put into service. Warranty excludes wear items such as belts, filters, light bulbs, brush wear, lubricants and brake linings. One parts book, operator's manual and maintenance manual to be provided.

P. OPTIONAL EQUIPMENT:

Light Group: To included two driving head lamps, stop, tail and turn signals with controller and 4-way emergency flashers.

Strobe Light: To be amber color, 12-volt double flash, 6.5" X 6"

Brush Water System: Tank to be low profile 170-gallon black polyethylene with vented filler cap. 8' galvanized pipe spray bar with 8' spray nozzles, 2-gpm, 12-volt electric pump with 100 mesh filter strainer and back flow valve.

7 1/2' Front Scraper: Scraper blade to have electronic joystick control at operator's station to control lift, right and left angle, float and down-pressure for extra heavy scraping. Blade to be powered by main broom hydraulic pump through electric over hydraulic control manifold.

AM/FM CD Stereo

Audible engine alarm

Extension air cleaner stack

96" poly quick-change coreless tube brush

Hydraulic temperature gauge

LT235/75R15 10-ply tires

Spare tire

Tool box

Safety engine shutdown system

Vandalism locks

Front fenders

Brush side shift – Brush angle will change to 30 degrees right to left

150 gallon water system

The undersigned hereby certifies that he/she has examined, and has the authority to submit, this bid proposal and is fully informed as to the nature of the equipment to be furnished, and that all the above conditions will be equaled or exceeded, and all requested information has been completed.

Company Name:

Submitted By (signature):

Address:

Name (typed or printed):

City, State, Zip:

Title (typed or printed):

Telephone:

Proposal Date:

Please contact Brad Siddall, at (231) 839-4361, with any questions regarding these specifications.