

INVITATION TO BID
VILLAGE OF MAHOMET
503 E. MAIN STREET
MAHOMET, ILLINOIS 61853

The Village of Mahomet is accepting sealed bids for a **2016 Skid Steer Loader**.

Sealed proposals for the skid steer loader will be received at the **Village of Mahomet Administrative Office, until 10:00 a.m., Monday, November 14, 2016**, at which time the bids will be publically opened and read aloud.

Bid specifications may be obtained at the Village of Mahomet Administrative Office, 503 E. Main Street, Mahomet, IL 61853, or email Cheryl Sproul at csproul@mahomet-il.gov.

The Village of Mahomet reserves the right to reject any or all bids or portions thereof and to waive any formality or technicality in any bids in the interest of the Village.

VILLAGE OF MAHOMET
2016 SKID STEER LOADER
INSTRUCTIONS TO BIDDERS

In this bid packet you will find five (5) pages of specifications for a **2016 Skid Steer Loader**. At the bottom of the last page there is an **alternate bid**.

On the **Specifications Sheet**, first fill in the top of the sheet stating the **Brand, Model and Contact Information**. Next, please place an "X" beside the appropriate letter indicating yes or no as to compliance of the specification. This section must be completed and returned with the bid. Any additions, deletions or variations from these published specifications must be outlined and attached.

The Village reserves the right to reject any and all bids or parts of bids, to waive any formalities or technicalities and to accept the the bid that in its judgement, best meets the requirements of the Village of Mahomet, Public Works Department and Transportation Division.

The Village reserves the right to include or exclude the alternate bid item(s), which will not be a consideration when awarding the bid.

Payment will be based upon the following schedule:

- Invoice for Base Bid and Any Approved Alternate Items Submitted
- Delivery of the Equipment to the Public Works Facility at 218 S. Lake of the Woods Road, Mahomet, IL 61853
- Inspection of the Equipment will be provided by the Transportation Superintendent

Any questions regarding this specifications, please call Eric Crowley, Transportation Superintendent at (217) 586-2013 (office) or (217) 621-2595 (cell).

SPECIFICATIONS

The bidder agrees to provide the item(s) described in the specifications listed below for the following:

BASE BID - 2016 SKID STEER LOADER WITH THE FOLLOWING EQUIPMENT:

BRAND_____ **MODEL**_____ **CONTACT INFO.**_____

ENGINE

- Y___N___ 4-cylinder, turbocharged, water-cooled diesel engine with a minimum 84 net horsepower
- Y___N___ Minimum engine displacement of 207 cubic inches
- Y___N___ Minimum SAE gross torque rating of 282 ft.-lbs. at 1400 RPM
- Y___N___ Tier 4 Final
- Y___N___ High pressure common rail electronic fuel injection
- Y___N___ Selective Catalytic Reduction (SCR) engine after treatment system
- Y___N___ Replaceable, full-flow cartridge type oil filter
- Y___N___ Stacked air after cooler, engine radiator, hydraulic oil cooler configuration
- Y___N___ Centrifugal style water pump
- Y___N___ Dual element air cleaner
- Y___N___ Glow plugs
- Y___N___ Organic Acid Technology (OAT) coolant
- Y___N___ 500-hour engine oil change interval
- Y___N___ 120 Volt block heater

ELECTRICAL

- Y___N___ 12-volt low-maintenance
- Y___N___ Minimum 160-amp alternator
- Y___N___ No maintenance 1,000 CCA battery

HYDROSTATIC TRANSMISSION

- Y___N___ Servo controlled hydrostatic four-wheel drive
- Y___N___ Tandem mounted, axial piston hydrostatic transmission with integral charge pump driven directly off the engine flywheel
- Y___N___ Drive pump to engine ratio – 1:1
- Y___N___ Drive pump system relief pressure of 5,220 psi
- Y___N___ Fixed displacement, radial piston drive motors
- Y___N___ Final Drive – single reduction chain drive

HYDROSTATIC TRANSMISSION cont.

- Y__N__ Two travel speeds
- Y__N__ Low range minimum 7.0 mph
- Y__N__ High range minimum 10.5 mph

HYDRAULICS

- Y__N__ Standard equipment pump – gear pump with rated flow at 24.2 gallons per minute
- Y__N__ High flow auxiliary pump with rated combined flow at 37.6 gallons per minute
- Y__N__ 3 spool loader control valve
- Y__N__ Loader control valve relief pressure of 3,050 psi
- Y__N__ Port relief pressure/loader raise – 3,263 psi
- Y__N__ Port relief pressure/bucket dump – 1,160 psi
- Y__N__ Port relief pressure/bucket curl – 3,770 psi
- Y__N__ 6 micron spin-on replaceable hydraulic filter with warning indicator
- Y__N__ Loader arm auxiliary hydraulics with proportional thumb wheel activation
- Y__N__ Auxiliary hydraulic ports located on the left loader lift arm, with protective cover
- Y__N__ 14 pin electrical port for attachments located on the left loader arm below the hydraulics

CHAIN CASE

- Y__N__ The skid steer loader shall have a heavy-duty chain case
- Y__N__ ASA #100 drive chains for each chain case
- Y__N__ Chain tensile strength – 30,000 lb.
- Y__N__ Separate lubrication system for each chain case
- Y__N__ Inspection plate in each chain case
- Y__N__ System to adjust and maintain the correct tension

AXLES

- Y__N__ Heavy-duty, one-piece forged induction-hardened high carbon steel axles
- Y__N__ Seal guard to keep debris away from axle seal
- Y__N__ Life-time splash lubrication
- Y__N__ Axle diameter – 2.44"
- Y__N__ Axle length – 15.6"
- Y__N__ Torque at max displacement and relief pressure – 5,957 ft.-lbs.

TIRES

- Y__N__ Heavy-duty 12" x16.5" tires

BRAKES

Y__N__ Spring-applied, hydraulic-release multiple disc

Y__N__ Depress on/off brake button on handle or instrument panel, raise seat bar, get off seat or stop engine

LOADER AND LINKAGE FEATURES

Y__N__ Loader arms shall be a vertical heavy-duty lift with Power Reach geometry

Y__N__ Dual bucket cylinders

Y__N__ Loader lift arm support strut

Y__N__ Operating load – 3,000 lbs.

Y__N__ Tipping load – 6,000 lbs.

Y__N__ Hydraulic one-way self-leveling

Y__N__ Hydraulic attachment coupler

Y__N__ Hydraulic ride control

BUCKET

Y__N__ Loader bucket shall have a heavy-duty design

Y__N__ Minimum 84" low profile extended floor bucket with 20.5 cubic foot heaped capacity

Y__N__ Rolled rear wrapper

Y__N__ Pre-drilled holes for a bolt on cutting edge, cutting edge included

Y__N__ Step mounted on the back

Y__N__ Compatible with other skid steer loaders

OPERATOR ENVIRONMENT

Y__N__ The operator compartment shall be accessible from the front of the machine

Y__N__ EROPS level 1 canopy with side screens

Y__N__ Control lockout system

Y__N__ Tilt EROPS

Y__N__ Electrical parking brake control

Y__N__ Hand throttle

Y__N__ Foot Throttle

Y__N__ Optional ISO or H-pattern switchable EZ-EH electric over hydraulic programmable controls

Y__N__ Operator's compartment floor cleanout

Y__N__ Rear window with emergency escape

Y__N__ Padded seat bar with integral arm rests that can be raised to lock out the loader lift arms

Y__N__ Air suspension cloth seat with retractable 2" seat belt

Y__N__ Foot rest

OPERATOR ENVIRONMENT cont.

- Y__N__ Halogen lights – 2 front, 2 side, 2 rear
- Y__N__ Dome light
- Y__N__ Tool pocket
- Y__N__ 12 volt power plug socket
- Y__N__ Cup holder
- Y__N__ Top window
- Y__N__ Headliner
- Y__N__ Alarm package (back-up and horn)
- Y__N__ Heat and air conditioning
- Y__N__ AM/FM Radio with auxiliary port
- Y__N__ Strobe light package

OPERATING WEIGHT

- Y__N__ Machine operating weight is equal to 8,655 lbs.

PERFORMANCE

- Y__N__ Maximum height to the top of the EROPS of 78.8”
- Y__N__ Minimum height to the hinge pin of 130”
- Y__N__ Minimum dump height with loader arms at maximum of 103.5”
- Y__N__ Minimum reach with bucket at full height of 29.3”
- Y__N__ Minimum wheel base of 52”
- Y__N__ Minimum lift cylinder breakout force of 6,237 lbs.
- Y__N__ Minimum bucket cylinder force of 8,776 lbs.
- Y__N__ Minimum tipping load capacity of 6,000 lbs.
- Y__N__ Minimum operating load of 3,000 lbs.
- Y__N__ Minimum cycle time raising the loader arms with rated load of 4.6 seconds
- Y__N__ Minimum cycle time lowering the loader arms (power down) with rated load of 3.5 seconds
- Y__N__ Minimum bucket rollback time of 2.0 seconds
- Y__N__ Minimum bucket dump time of 2.6 seconds

SERVICEABILITY

- Y__N__ The Skid steer loader shall be easy to service via single-point daily service points
- Y__N__ 25.5 gallon fuel tank with the fill location at the back of the machine
- Y__N__ 11.75 total gallon hydraulic oil system
- Y__N__ 8.9 qt. engine oil with filter
- Y__N__ 208 gallon Diesel Exhaust Fluid (DEF) tank

