

PUBLIC WORKS DEPARTMENT  
EQUIPMENT BID

VILLAGE OF GODFREY, ILLINOIS

REQUEST FOR BIDS,  
SPECIFICATIONS,  
AND BID SHEET

JUNE 29, 2018

**REQUEST FOR BIDS**  
**Village of Godfrey**  
**Bid Notice**

Notice is hereby given that the Village of Godfrey is accepting sealed bids for:

*PUBLIC WORKS EQUIPMENT*

Bid Specifications are available at the Godfrey Village Hall in the Village Clerk's Office located at 6810 Godfrey Road, Godfrey, IL.

Bids shall be returned in a sealed envelope with the name and address of the bidder marked clearly, and "***PUBLIC WORKS EQUIPMENT***" noted on the outside of the envelope.

Bids must be submitted on forms provided by the Village of Godfrey. Bidder must include a bid price of each item for which they are bidding. All other requested information must be provided or bid will not be considered.

Bids shall be mailed to the attention of Village Clerk, c/o Village of Godfrey, P.O. Box 5067, Godfrey, IL 62035. **All bids must be received by 10:00 am on Friday, June 29, 2018**, at which time the bids will be publicly opened and read.

The Village reserves the right to waive any irregularities in the bids and to reject any or all bids and may accept a bid other than the lowest bid if it is in the best interest of the Village.

By the order of the Village Board  
of the Village of Godfrey

Pamela E. Whisler  
Village Clerk

## **SPECIFICATIONS**

### **ONE 2018 OR NEWER BACKHOE LOADER**

All listed specifications are minimum:

One (1) New 2018 or Newer BACKHOE LOADER CAT 420F2 or EQUIVALENT

#### **ENGINE**

Engine must comply with U.S. EPA Tier 4 Final / EU Stage IV off road emission requirements.

Machine shall utilize Selective Catalytic Reduction (SCR)

Engine compartment side panels shall have standard noise reduction and heat control insulation.

Units shall be equipped with a turbocharged, four cylinder, direct injection diesel engine with high strength, cast iron alloy single block design for high strength and long life.

The engine shall have three-ring pistons made of lightweight, silicon/aluminum alloy for strength and maximum thermal conductivity.

The engine shall have front and rear crankshaft oil seals that are "lip" type Viton and PTFE designs featuring an integral dust lip.

Engine shall have a fuel filtration rating of no more than 10-micron for the primary fuel filter / water separator.

Engine shall have a vertical spin-on fuel filters.

Engine shall be equipped with a single, automatically tensioned, serpentine accessory belt.

Backhoe joystick shall be equipped with a quick idle down feature that lowers the engine speed to 1,000 rpm.

Machine shall have Automatic Engine Speed Control that reduces engine speed when the backhoe is not in use. This will conserve fuel and lower emission noise.

#### **POWER TRAIN / TRANSMISSION**

4WD shall be engaged at any time by activating switch on front console. An operator shall be able to activate the switch while the machine is moving or stopped, also with or without a load.

Transmission shall be made, serviced and supported by the machine manufacturer.

Transmission shall have a spin-on type oil filter vertically mounted.

## **BRAKES**

Brake mode selector switch shall have a 3 position switch allowing 2WD, 2 WD travel with 4WD braking and full time four wheel drive.

Two wheel drive with four wheel braking must be available at all speeds and when the machine is in any gear.

Brakes shall be outboard oil-immersed, hydraulically actuated, multiple discs on final drive input drive shaft.

## **HYDRAULIC SYSTEM**

Hydraulic system shall include high-pressure hoses consisting of 4 layers of overlapping insulated spiral wire matrix.

Machine shall be able to reach maximum lift capacity at any engine speed.

Hydraulic pump shall be rated at 43 gpm (163 lpm)

Machine shall have an electronically controlled variable displacement load sensing, axial piston pump for low idle lifting and maximum durability.

Closed-center implement valves shall be standard.

Unit shall contain flow sharing valves to allow for machine multifunction.

Combined function hydraulics providing 1 way & 2 way flow to rear of machine shall be included.

## **AXLES**

Front fenders shall be included.

## **WHEEL / TIRES**

All valve stems to be protected by metal valve stem covers.

## **OPERATORS STATION**

Pilot Controls for the backhoe shall be adjustable fore/aft, side to side and actuated by a foot control.

The governor pedal shall be hinged and mounted to the floor for maximum pedal positioning control.

FM Bluetooth radio shall be included.

Unit shall include four front and four rear working lights.

Electric auxiliary socket shall be available on roof for connection to items such as a rotating beacon.

Roof cab shall have three magnetic beacon locations.

A switch, accessible to the operator from the seat, shall control the auxiliary socket, primarily used for beacon operation.

With doors and windows closed, machine operating at maximum governed speed unit shall have a maximum operator sound exposure Leq of 79 dB(A) according to SAE J1166.

Stabilizer controls shall be conveniently located to the operator's left side/hand.

Cab shall have an optional air conditioner that provides the operator with a choice of fresh outside air drawn through filters or recirculating cab air with HVAC recirculation selector.

Cab shall be equipped with two doors and 6 opening windows and floor mat.

All removable glass panels shall be flat glass for easy and low cost service.

All rear window sections shall stow overhead, inside the cab for maximum visibility, ventilation and operator comfort.

All rear window sections shall open upwards and store overhead with outside portion facing upwards to keep water droplets and dirt from falling on operator.

Exhaust stack shall be located to the side and aligned with ROPS as to not obstruct operator's vision.

#### **BACKHOE**

Maximum boom width shall be no wider than 10 inches (254 mm).

Backhoe bucket shall have a minimum of 205 degrees of bucket rotation in a single pin position.

Extendible stick shall be field adjusted in less than 30 minutes to eliminate excessive clearance, using simple hand tools.

Extendible stick shall be self-lubricating, adjusted with shims and require no grease.

Pattern changer shall be available for switching Backhoe and Excavator control patterns with an electric switch, located within the operator's station.

Flip over stabilizer pads shall have a dirt grouser.

#### **LOADER (SELECT BUCKET)**

Loader bucket shall have a 2-piece cutting edge for serviceability.

Manual dual lock pin grapper coupler shall be included.

#### **WORK TOOL OPTIONS**

Buckets shall be equipped with pin-on tooth tips that are exchanged whereby the pin retainers are diagonal or vertical, allowing them to be extracted or inserted with a hammer and punch only.

#### **SERVICEABILITY**

Hood release to be lockable and easily accessible from inside the cab.

Unit shall come standard with machine jump posts.

## **OWNING AND OPERATING COSTS**

Load Sensing Variable Displacement pump shall be standard for optimized fuel efficiency and performance.

Engine shall have a 500-hour oil change interval for lowering operating maintenance cost.

## **ADDITIONAL FEATURES**

Ride-Control shall be included and will smooth the ride under all operating conditions.

24" High capacity 8.5 cu ft backhoe bucket w/teeth shall be included.

Helac power tilt attachment shall be included.

48" ditching bucket shall be included.

Included 2 year / Total Machine Warranty / Premier Warranty or 1,000 Hours.

## **TRADE-IN:**

The Village of Godfrey wishes to trade in one 2012 John Deere Backhoe 410J as part of the bidding process. Bidders shall include within their bid a specific trade-in value for one used 2012 John Deere Backhoe 410J.

## **Bidders shall also include additional information on the unit bid:**

- Printed literature detailing features of the unit
- Provide list of 3 references of previous purchasers of equipment being bid

**General:** Bids must be submitted on forms provided by the Village of Godfrey. The bid price and delivery date will be used to determine bid award. The Village of Godfrey reserves the right to reject any and all bids and may accept a bid other than the lowest bid if it is in the best interest of the Village.

Any questions regarding specifications should be directed to Director of Maintenance, Jim Lewis at (618) 466-3133.

ONE (1) 2018 OR NEWER BACKHOE LOADER  
PUBLIC WORKS DEPARTMENT  
JUNE 29, 2018

One (1) 2018 or newer Backhoe Loader \$ \_\_\_\_\_

Less trade in value of one (1) 2012 John Deere Backhoe 410J -\$ \_\_\_\_\_

Total for Backhoe \$ \_\_\_\_\_

Order/Delivery Time: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Authorized Representative/Contact: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Date: \_\_\_\_\_

Bids must be submitted on forms provided by the Village of Godfrey. Bidder must include a bid price of each item for which they are bidding and **all** requested information must be provided or the bid will not be considered. **All bids must remain guaranteed through July 31, 2018.** The bid price and delivery time will be used to determine the bid award. The Village of Godfrey reserves the right to reject any and all bids and may accept a bid other than the lowest bid if it is in the best interest of the Village.