

<b>Bid specifications Backhoe/Loader</b>		
<b>Compliance</b>		
<b>Engine</b>		
yes	no	Four Cylinder, turbocharged, isolation mounted diesel engine and shall be designed and built by the manufacturer
yes	no	Engine shall be certified to EPA Tier III emissions
yes	no	Engine shall have a individually replaceable, wet-sleeve cylinder liner design to dissipate heat for reduced ring wear and oil breakdown.
yes	no	Engine displacement shall be no less than 276 cu. in.
yes	no	Engine rated net peak power (ISO9249) shall be no less than 93 hp @ 2000 rpm
yes	no	Engine shall develop at least a 47% torque rise and should have at least 288 lb-ft net torque @ 1300 rpm
yes	no	Daily check points shall be accessible from the right side of the engine and shall be done from ground level
yes	no	Engine shall have a serpentine belt with automatic belt tensioner reducing required maintenance
yes	no	Under-hood engine air cleaner shall be dry type, dual element with evacuator valve, restriction sensor and in-cab restriction warning light
yes	no	The backhoe shall have a tilt hood for easy engine access
yes	no	The backhoe shall have an under hood muffler with curved-end exhaust stack
yes	no	Engine shall have no more than 30-micron rated primary fuel filter with water separator
<b>Cooling</b>		
yes	no	Engine coolant shall be rated to -34 degrees (-37C)
yes	no	The backhoe shall be equipped with an oil-to-water engine oil cooler
yes	no	Unit shall have a coolant recovery tank provided
yes	no	Unit shall have a suction-type fan with fan-guard
yes	no	The hydraulic and transmission circuits will be water cooled for fast winter warm-up for increased productivity
<b>Power Train</b>		
yes	no	The transmission shall be powershift with torque converter; clutch-free; fully synchronized four forward, three reverse speeds
yes	no	The axle will be mechanical-front-wheel-drive (MFWD) with traction control limited-slip differential with electric on/off control
yes	no	The axle will be sealed to protect against contamination
yes	no	The driveshaft will be painted for protection, and will have a factory installed, full guard.
yes	no	The clutch engaged MFWD can be engaged on the fly during operation.
yes	no	The transmission shall be isolation mounted to the mainframe to minimize shock load stress
yes	no	The rear axle shall be 100% hydraulically locking
yes	no	The single electric FNR lever will have gear selection fully integrated in the lever
yes	no	Transmission oil cooler shall be provided as standard equipment
yes	no	The backhoe shall have hydrostatic power steering with emergency manual mode
yes	no	The machine will have a dial throttle that will allow the operator to road the machine on cruise control. Upon engagement of the brake pedal, the engine RPMs return to idle
yes	no	The final drives shall be heavy-duty outboard planetary distributing loads over three gears sealed in cooling oil bath for long-life and trouble free service.
yes	no	The front axle shall have remote grease bank for front axle for easy access.

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yes	no	The rear axle bearings shall be self-lubricating and shall not need to be greased
yes	no	The service brakes shall be inboard, wet-multiple disk, self-adjusting and self equalizing and hydraulically actuated for a long and trouble-free life, sealed from water, mud and dust contamination
yes	no	The parking brake shall be independent of service brakes, spring applied, hydraulically released, wet multi-disk, and sealed from water, mud and dust contamination.
<b>Hydraulic System</b>		
yes	no	Hydraulic cooler will have an independent reservoir for continuous running of attachments at high ambient outside air temperatures
yes	no	The hydraulic fittings shall have "O"-ring face seal connectors to secure a tight, leak-free seal
yes	no	The hydraulic filter shall be no more than 6 micron and will be vertically mounted, spin on design for ease of installation and leak-free replacement.
yes	no	An automatic bucket return-to-dig control will be standard
yes	no	Hydraulic pump shall be 36 gpm @ 2,200 rpm at 3,625 psi gear pump, open center system
<b>Electrical</b>		
yes	no	The backhoe shall have a 12 volt system with 90 amp alternator
yes	no	Dual batteries shall be included, 12 volt, 1,900 CCA, 300-min. rated reserve
yes	no	The machine shall have blade type, multi-fused circuits
yes	no	The starter shall have a bypass start safety cover
yes	no	Machine will have a rotating beacon
yes	no	Unit shall be equipped with 10 halogen driving/working lights, (4) front driving/working; (4) rear; (2) side docking lights The front lights shall be adjustable and the bulbs shall be no less than 35,200 candlepower each.
yes	no	Unit shall be equipped with two front and two rear turn signal/flashing and two rear stop and tail lights and two rear reflectors
<b>Operator Station</b>		
yes	no	Unit shall have cab with dual doors and air conditioning that has isolation mounted modular design ROPS/FOPS (conforms to SAE J1040)
yes	no	Access to the cab shall be from the right and left side with protected, wide, rigid, self-cleaning steps and ergonomically located hand-holds
yes	no	Cab shall include tinted safety glass, headliner, sun visor, molded floor mats, and tilt steering wheel
yes	no	Coat hook, built-in beverage holder, operator manual storage compartment, interior rearview mirror and two 12 volt outlets shall be provided
yes	no	Unit shall be equipped with illuminated electronic gauges with audible warning for: engine coolant temperature, oil temperature and fuel level.
yes	no	The monitor system shall have audible and visual warnings: engine air restriction, low alternator voltage, engine oil pressure and temperature, hydraulic filter restriction, parking brake on/off, and low brake pressure. The seat belt will have a visual warning.
yes	no	The key start switch will have an electric fuel shut-off
yes	no	The monitor will have a multi-language (English, French and Spanish) digital monitor for diagnostics (including diagnostic messages and fault code readings), calibrations and machine information.

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yes	no	Machine Monitoring System with 3 years (free) cellular service to Village superintendents computer. Monitoring machine health, give alerts of potential downtime, document machine and operator productivity, and help to recover machine if stolen through GPS tracking.
yes	no	AM/FM/WB with CD Radio
yes	no	The seat shall be suspension fabric swivel, with fully adjustable armrests and lumbar support with 3" retractable seat belt.
<b>General Specifications</b>		

yes	no	Goodyear 19.5L-24 in. 10 PR (R4) Tubeless Rear & 12.5/80 in. 10 PR Traction Front
yes	no	Cab shall be lockable and engine hood, toolbox, hydraulic reservoir, and fuel filler shall be lockable.
yes	no	The tilt hood shall have two service positions for easy operation
yes	no	An easy to read periodic maintenance and grease chart shall be posted at eye level prominently displayed on the frame.
yes	no	Fuel tank capacity shall be no less than 41 gallons and shall be accessible from the ground.
yes	no	Operating weight with typical equipment, 1.3 cu yd loader bucket and 24-in x 6.5 cu ft backhoe bucket shall be approximately 17,000 lb.

<b>Frames and Structures</b>		
yes	no	The mainframe shall be a one-piece unitized construction for maximum strength
yes	no	Unit shall have four built-in vehicle tie-downs, two in front and two in rear for safe transport between jobs
yes	no	The side plate thickness on the loader boom, backhoe boom and mainframe shall be 4.5 mil or greater
yes	no	Machine shall be equipped with an exterior mounted, ground level accessed and lockable storage compartment
yes	no	Front Counterweight shall be what manufacturer recommends for the specified backhoe/loader.

<b>Backhoe</b>		
yes	no	24" HD Bucket with teeth. Machine shall include Quick Coupler that can be used on the villages Cat buckets.
yes	no	Maximum SAE dig depth with extendable dipperstick extended shall be no less than 18 ft 5 in
yes	no	The lift capacity at full height with extendable dipperstick retracted shall be no less than 3,119 lb
yes	no	The swing lock pin shall be stored in the operator's station
yes	no	The stabilizer valve will be two directional, anti-drift
yes	no	The machine shall have extended stabilizers with pin lock reversible pads
yes	no	Extendible dipperstick shall extend no less than 3 ft 6 in
yes	no	The Backhoe boom design shall be a power curve for loading into the center of the truckbed.
yes	no	The backhoe boom shall be an hourglass shape for maximum strength and optimized visibility to the work tool.
yes	no	Digging force of backhoe with HD bucket cylinder shall be at least 15,236 lb
yes	no	The backhoe shall be equipped with a rubber bumper/linkage style boom locks to keep the backhoe from vibrating on the swing frame

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yes	no	Unit shall be equipped with two lever pilot controls with pattern-selection feature.
yes	no	The swing casting shall have dual yokes: on top and on the bottom
<b>Loader</b>		
yes	no	Loader Bucket shall have 1.3 cu yd MULTI-PURPOSE (4 IN 1), equipped with a bolt-on-edges. Lift Capacity at full height shall be at least 7,200 lbs
yes	no	Dump Clearance @ 45 deg. shall be no less than 8 ft 8 in
yes	no	Digging depth below ground, bucket level shall be no less than 8.1 in.
yes	no	Bucket breakout force shall be no less than 10,300 lb
yes	no	The loader shall have hydraulic self-leveling and bucket-level indicator.
yes	no	The loader shall have divergent loader arms for excellent visibility to the bucket
yes	no	For truck loading, the loader arms will have a curved-knee design for loading into the center of the truck bed
yes	no	The loader control will be single-lever with electric clutch cutoff switch
yes	no	The loader shall have a non-removable, hinged loader boom service lock.
yes	no	Machine shall be equipped with ride control.
yes	no	Machine shall be equipped with a Cold Start Package which includes engine coolant heater and electric ether starting aid
yes	no	Operators manual and parts manual shall be included.
yes	no	1 year Full Warranty

BID PROPOSAL - BACKHOE

BID  
YEAR, MAKE & MODEL

\_\_\_\_\_

PRICE (without trade)

\_\_\_\_\_

LESS TRADE OF Cat 416D

\_\_\_\_\_

NET PRICE

\_\_\_\_\_

DELIVERY (state time)

\_\_\_\_\_

Note: Village may decide not to trade

Name of bidder

\_\_\_\_\_

Address

\_\_\_\_\_

\_\_\_\_\_

Telephone

\_\_\_\_\_

## NON-COLLUSIVE BIDDING CERTIFICATION

By submission of this bid, each bidder and each person on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury that to the best of his/her knowledge and behalf:

1) The prices of this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor.

2) Unless otherwise required by law, the prices which have been quoted in the bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or any competitor.

3) No attempt had been made or will be made by the bidder to induce any such person, partnership, or corporation to submit or not to submit to a bid for the purpose of restricting competition.

The person assigning this bid or proposal certifies that he/she has fully informed himself/herself regarding the accuracy of the statements contained in this certification, and under the penalties being applicable to the bidder as well as to the person signing in his/her behalf.

In witness whereof, the undersigned corporation has caused its corporate seal to be hereunto affixed, and these presents to be signed by its duly authorized officer, this            day of            , 2011.

\_\_\_\_\_  
(name of corporation)

by \_\_\_\_\_

\_\_\_\_\_  
(title of officer executing)

Place seal here