

ENVIRONMENTAL | ENGINEERING | SURVEYING | CONSTRUCTION | TRANSPORTATION

INVITATION TO BID (ITB)

NAVAJO NATION DIVISION OF COMMUNITY DEVELOPMENT (NNDCD)

PURCHASE OF HEAVY EQUIPMENT April 8, 2024

The NNDCD is soliciting bids under this ITB to accomplish the purchase and delivery of heavy equipment for various chapters on the Navajo Indian Reservation as part of the American Rescue Plan ACT (ARPA) funding from the federal government. The specific equipment under this ITB are as follows:

- (7) John Deere Model 772GP motor grader or equivalent with ripper attachment.
- (2) John Deere Model 850L crawler dozer or equivalent with ripper attachment.
- (1) John Deere Model 450LGP crawler dozer or equivalent.
- (2) John Deere 320P backhoe or equivalent with forks
- (1) John Deere 50G mini-excavator

The following are additional requirements to be included in the bid and priced, as applicable, with the aforementioned equipment:

- Standard warranty with terms and conditions.
- Optional warranty with pricing (separately).
- Operator training at time of delivery.
- Anticipated equipment delivery timeframe.
- Length of bid price is valid.

The following are the terms and conditions in force with respect to this ITB:

- Bid preference is given to registered, Priority One vendors and secondly to Navajo Priority Two vendors.
- Vendors claiming Priority status <u>MUST</u> clearly label on the outside of their bid package the particular status being requested.
- Revisions to bids can be made up until the time the bids are to be opened and evaluated. No bids will be changed after the bid opening date.
- The bid must be clearly identified and itemized by equipment requested with fully-burdened price clearly marked. Navajo Nation Business Activity Tax (NNBAT) of 6% must be included in the bid price.
- Bid must include the completion of the attached *Bid Specifications Compliance* forms in order for bid to be considered responsive.

Please submit all bids postmarked by April 12, 2024 by 05:00 pm MST to:

iiná bá, Inc. 1812 Schofield Lane Farmington, NM 87401 or P. O. Box 2606 Farmington, NM 87499

Any questions can be directed to Mr. John R. Isham, CPG at (505) 327-1072 or via email at jisham@iinaba.com

Maintaining Harmony Between Man and His Environment

iiná bá, Inc. 1812 Schofield Lane, Farmington, NM 87401 PO Box 2606 Farmington, NM 87499 Phone: (505) 327-1072 Fax: (505) 327-1517

www.iinaba.com

Bid specifications for Deere 450 LGP or Equal Crawler Dozer

Compliance

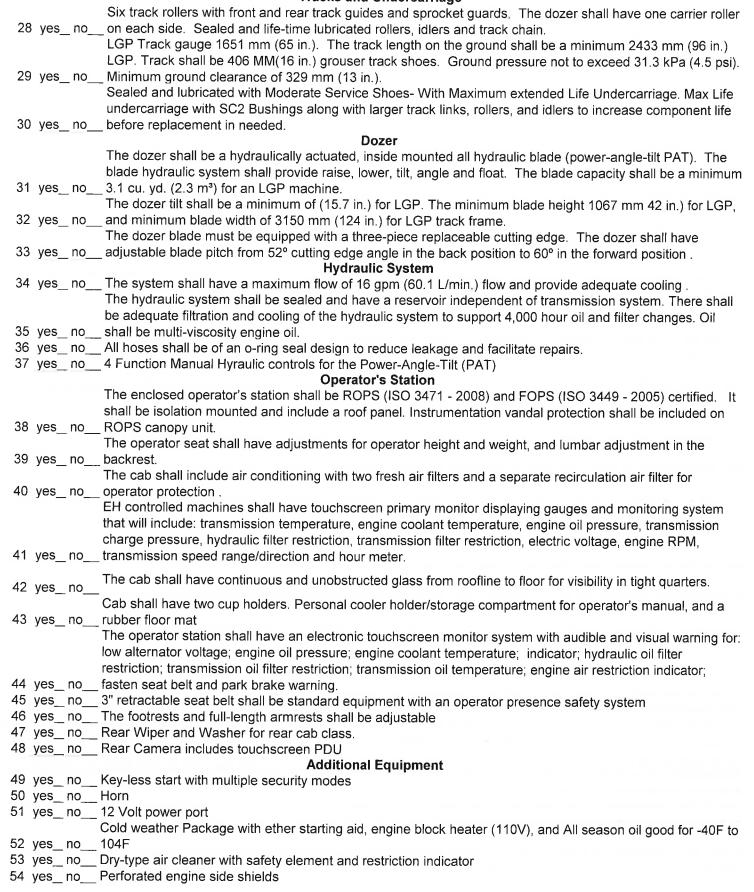
Additional supplemental information explaining compliance can be added as an attachment to the bid. Please reference the Compliance Number. Listed below in bold are the attachments that are required to be included with the bid.

Overall Machine

| | | | Overall Machine |
|----|------|-----|---|
| 1 | yes_ | _no | _ Made in the U.S.A. |
| | | | Engine |
| | | | The crawler engine shall meet EPA Final Tier 4/EU Stage IV emissions. It will have a minimum of 71 SAE net |
| 2 | yes_ | _no | hp (53 kW), with four cylinders and be turbocharged. |
| 3 | yes_ | _no | The crawler engine shall have a minimum displacement of 4.0 liters (244 cubic inches) |
| 4 | yes_ | no_ | Engine shall have wet-sleeve cylinder liner design for maximum cooling and engine life. |
| | | | The crawler engine shall meet EPA Final Tier 4/EU Stage IV emissions without the use of Diesel Exhaust |
| 5 | yes_ | no | Fluid (DEF). |
| | | | The pressurized liquid cooling system shall have a water pump driven with an automatically adjusting belt. |
| | | | Radiator shall be filled with manufacturer's approved anti-freeze solution that provides protection to at least - |
| 6 | yes | no | _ 34° F (-37° C). |
| | | | The fuel system shall have a fuel shut-off valve to prevent fuel loss during filter changes. The system shall |
| 7 | yes | no | have a water separator located between the fuel tank outlet and the fuel filters. |
| | _ | _ | The exhaust after treatment device shall consist of both a Diesel Oxidation Catalyst (DOC) and a Diesel |
| | | | Oxidation Catalyst (DPF). Both the DOC and DPF shall be serviced independently in the event of a repair or |
| 8 | ves | no | replacement. |
| | , _ | | Diesel Particulate Filter (DPF) shall be rated to last the life of the engine. Please Provide as an attachment |
| 9 | ves | no | the warranty on the exhaust after treatment system. |
| | yes_ | | |
| | yes | | _ , |
| | | | The primary and secondary fuel filters shall be remote mounted outside of the engine compartment for easy |
| 12 | ves | no | access and a reduced risk of fuel leaks near the engine. |
| | , | | Severe duty fuel filter - water separator will be available if required which will include a heating element to |
| 13 | yes | no | prevent freezing of separated water |
| | | | Engine Air Precleaner-Rotary Style |
| | _ | | The engine lubrication shall be of adequate design to permit operation on slopes up to 45° in any direction. |
| 15 | yes_ | no | The engine oil and filter change interval shall be 500 hours |
| | | | Electrical |
| | | | Batteries shall have a minimum capacity of 950 CCA, 190-min. rated reserve. Electrical system must be 24 |
| | yes_ | | |
| 17 | yes_ | no | Unit shall have cab mounted lights Front Mounted (2), Rear Mounted (2), and 2 rear reflectors |
| | | | Transmission |
| | | | Dual-path hydrostatic drive with infinite speed capability, dynamic braking, full power turns and counter |
| 19 | yes_ | no | |
| | | | The transmission system shall be sealed and have a reservoir independent of hydraulic system. There shall |
| | | | be adequate filtration and cooling of the hydraulic system to support 4,000 hour oil and filter changes. Oil |
| 20 | yes_ | no | shall be multi-viscosity engine oil. |
| | | | Transmission shall have the ability for the operator to easily adjust operating parameters such as: FNR shift |
| 21 | yes_ | no | rate, Steering rate, Steering Modulation, Decel pedal response and Reverse Ratio. |
| | | | Dozer shall have an automatic hill hold feature that automatically applies the parking brake when the |
| | | | transmission is in neutral and motion is detected. Parking must automatically be released upon shifting from |
| | | | neutral. |
| | | | A sight gauge shall be provided for checking the hydrostatic fluid. |
| 24 | yes_ | no | Transmission filter restriction shall be displayed in the cab |
| | | | The single pedal decelerator will allow the operator to choose between slowing travel speed and engine rpm |
| | | | or travel speed only to help maintain traction without affecting engine power and hydraulic response. Fully |
| 25 | yes_ | no | depressing the pedal applies the brakes. |
| | | | Steering Communication of the |
| 00 | | | Hydrostatic drive is preferred for full power turns and counter rotation. Steering shall be fully modulated at all |
| 26 | yes_ | no | speeds to provide smooth operation. Steering brakes shall be oil-cooled. |
| 27 | V00 | 20 | Final Drive |
| 21 | yes_ | 110 | Triple reduction, bull gear final drives must be isolated from the track frames. |
| | | | |

Bid specifications for Deere 450 LGP or Equal Crawler Dozer

Tracks and Undercarriage



Bid specifications for Deere 450 LGP or Equal Crawler Dozer

| 55 | yes no | Reverse warning alarm |
|--|---|--|
| | | Vandal protection providing lockable protection to all openable panels and fuel fill |
| | yes no | |
| | · — - | Front idler shaft guards |
| | yesno_ | |
| | , | Periodic maintenance and lube chart shall be posted for easy reference to ensure that maintenance is |
| 60 | yesno_ | |
| | yesno_ | |
| | | Front Counterweight 240lbs |
| | | _ |
| | | Heavy-duty Parallelogram ripper with 5-shank Pockets and (3) Shank/teeth. |
| 04 | yes_no_ | _ Fluid sampling ports for engine oil, hydraulic, and hydrostatic systems. |
| ٥. | | Quick Service Package with ports and plumbing for quick evacuation and fill of hydraulic oil, engine oil, and |
| | | _ engine coolant. |
| 66 | yes_ no_ | |
| | | Additional Equipment |
| | | Weight of the dozer must be minimum of 24,200 lbs. Must include base weight with standard equipment, |
| | | rollover protections structure (ROPS) full fuel tank, 175lb. Operator plus the dozer blade, ripper and other |
| 67 | yes_ no_ | _ optional components. |
| | | Safety |
| 68 | yes_ no_ | _ In Cab mounted 2.5 lb. Fire Extinguisher and Bracket. |
| 69 | yes_ no_ | Rear Camera includes touchscreen PDU |
| | | Warranty and Machine Maintenance Plan |
| 70 | yes_ no_ | _ Include in the price and list Standard Factory Warranty. |
| | | Include in the price 60-Months/3000 Hour Extended Powertrain Plus Hydraulics Warranty. |
| | | Include as an attachment the Extended Warranty Options for more years and hours of both |
| | | powertrain plus hydraulics and Full Machine (Comprehensive). Include what the deduct for the |
| | | 60/3000 hour Powertrain plus hydraulics warranty quoted in bid would be if another extended |
| | | |
| 70 | | Warranty Antion is calcuted |
| 72 | yesno_ | _ warranty option is selected. |
| 72 | yes no | |
| | | Include in the price a 60-Month/3000 Hour Maintenance Plan with travel included up to 100-Miles. Please |
| | yesno | Include in the price a 60-Month/3000 Hour Maintenance Plan with travel included up to 100-Miles. Please list what is covered under the Maintenance Plan on the quote or as a separate attachment. |
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| 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 | yesno | Include in the price a 60-Month/3000 Hour Maintenance Plan with travel included up to 100-Miles. Please list what is covered under the Maintenance Plan on the quote or as a separate attachment. Additional Trailer Bid to Haul Dozer 30,000 lbs. 15-Ton Capacity Pintle Hithch Trailer with Beavertail with Trailer Weight of 8,100 lbs. Deck width 8'6" with 34" deck height and 21' Length Deck to have 2" aptong outside with DSS pine Center two speed jack standard equipment 20Ton Ramps with Apitong Wood filled Ramps, standard springs. Frame Mainrails W14'x22 lbs. wide flange I-Beam, one piece cold formed Hi-tensile 50,0000 PSI steel Mainrails from front to drawbar to rear of trailer 8Deg. Tail (safe low loading angel) Crossmembers 6"x 3.7 lbs. per ft. I-Beam pierced through mainbeam Headboard 8" High, Full width of trailer with Drawbar Storage Area Lights sealed L.E.D., 12 volt DOT approved with USA star plus sealed Modular Wiring Harness w/ 7-Way ATA Plug Hitch one piece solid cast steel (adjustible) lunette eye and flange mount Two Safety Chains 1/2" blue-Krome Plated high test, safety hook with Latch 70,000 lbs. Static/ 40,000 lbs. lift (Heavy Duty 2-Speed screw type) 5-tie downs per side with Roto Rings with 360Deg. Swivel 2-Tie Downs each sid on the beavertail for total of 7 each side. Eight 215/75R147.5 (H) Steel belted Radials Four disc typ hubs, egith 6.75 x17.5, 8-Bolt Hub Piloted disc wheels, oil seals |
| 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 | yesno | Include in the price a 60-Month/3000 Hour Maintenance Plan with travel included up to 100-Miles. Please list what is covered under the Maintenance Plan on the quote or as a separate attachment. Additional Trailer Bid to Haul Dozer 30,000 lbs. 15-Ton Capacity Pintle Hithch Trailer with Beavertail with Trailer Weight of 8,100 lbs. Deck width 8'6" with 34" deck height and 21' Length Deck to have 2" aptong outside with DSS pine Center two speed jack standard equipment 20Ton Ramps with Apitong Wood filled Ramps, standard springs. Frame Mainrails W14'x22 lbs. wide flange I-Beam, one piece cold formed Hi-tensile 50,0000 PSI steel Mainrails from front to drawbar to rear of trailer 8Deg. Tail (safe low loading angel) Crossmembers 6"x 3.7 lbs. per ft. I-Beam pierced through mainbeam Headboard 8" High, Full width of trailer with Drawbar Storage Area Lights sealed L.E.D., 12 volt DOT approved with USA star plus sealed Modular Wiring Harness w/ 7-Way ATA Plug Hitch one piece solid cast steel (adjustible) lunette eye and flange mount Two Safety Chains 1/2" blue-Krome Plated high test, safety hook with Latch 70,000 lbs. Static/ 40,000 lbs. lift (Heavy Duty 2-Speed screw type) 5-tie downs per side with Roto Rings with 360Deg. Swivel 2-Tie Downs each sid on the beavertail for total of 7 each side. Fight 215/75R147.5 (H) Steel belted Radials Four disc typ hubs, egith 6.75 x17.5, 8-Bolt Hub Piloted disc wheels, oil seals Hutch H-9700, Three Leaf, capacity 50,000 lbs. tandem |
| 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 | yesno | Include in the price a 60-Month/3000 Hour Maintenance Plan with travel included up to 100-Miles. Please list what is covered under the Maintenance Plan on the quote or as a separate attachment. Additional Trailer Bid to Haul Dozer 30,000 lbs. 15-Ton Capacity Pintle Hithch Trailer with Beavertail with Trailer Weight of 8,100 lbs. Deck width 8'6" with 34" deck height and 21' Length Deck to have 2" aptong outside with DSS pine Center two speed jack standard equipment 20Ton Ramps with Apitong Wood filled Ramps, standard springs. Frame Mainrails W14'x22 lbs. wide flange I-Beam, one piece cold formed Hi-tensile 50,0000 PSI steel Mainrails from front to drawbar to rear of trailer 8Deg. Tail (safe low loading angel) Crossmembers 6"x 3.7 lbs. per ft. I-Beam pierced through mainbeam Headboard 8" High, Full width of trailer with Drawbar Storage Area Lights sealed L.E.D., 12 volt DOT approved with USA star plus sealed Modular Wiring Harness w/ 7-Way ATA Plug Hitch one piece solid cast steel (adjustible) lunette eye and flange mount Two Safety Chains 1/2" blue-Krome Plated high test, safety hook with Latch 70,000 lbs. Static/ 40,000 lbs. lift (Heavy Duty 2-Speed screw type) 5-tie downs per side with Roto Rings with 360Deg. Swivel 2-Tie Downs each sid on the beavertail for total of 7 each side. Eight 215/75R147.5 (H) Steel belted Radials Four disc typ hubs, egith 6.75 x17.5, 8-Bolt Hub Piloted disc wheels, oil seals Hutch H-9700, Three Leaf, capacity 50,000 lbs. tandem Two Heavy Duty Dexter, 15,000 lbs. each |
| 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 | yesno | Include in the price a 60-Month/3000 Hour Maintenance Plan with travel included up to 100-Miles. Please list what is covered under the Maintenance Plan on the quote or as a separate attachment. Additional Trailer Bid to Haul Dozer 30,000 lbs. 15-Ton Capacity Pintle Hithch Trailer with Beavertail with Trailer Weight of 8,100 lbs. Deck width 8'6" with 34" deck height and 21' Length Deck to have 2" aptong outside with DSS pine Center two speed jack standard equipment 20Ton Ramps with Apitong Wood filled Ramps, standard springs. Frame Mainrails W14'x22 lbs. wide flange I-Beam, one piece cold formed Hi-tensile 50,0000 PSI steel Mainrails from front to drawbar to rear of trailer 8Deg. Tail (safe low loading angel) Crossmembers 6"x 3.7 lbs. per ft. I-Beam pierced through mainbeam Headboard 8" High, Full width of trailer with Drawbar Storage Area Lights sealed L.E.D., 12 volt DOT approved with USA star plus sealed Modular Wiring Harness w/ 7-Way ATA Plug Hitch one piece solid cast steel (adjustible) lunette eye and flange mount Two Safety Chains 1/2" blue-Krome Plated high test, safety hook with Latch 70,000 lbs. Static/ 40,000 lbs. lift (Heavy Duty 2-Speed screw type) 5-tie downs per side with Roto Rings with 360Deg. Swivel 2-Tie Downs each sid on the beavertail for total of 7 each side. Eight 215/75R147.5 (H) Steel belted Radials Four disc typ hubs, egith 6.75 x17.5, 8-Bolt Hub Piloted disc wheels, oil seals Hutch H-9700, Three Leaf, capacity 50,000 lbs. tandem Two Heavy Duty Dexter, 15,000 lbs. each 12 1/4" x 5" Electric Brakes |
| 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 | yesno | Include in the price a 60-Month/3000 Hour Maintenance Plan with travel included up to 100-Miles. Please list what is covered under the Maintenance Plan on the quote or as a separate attachment. Additional Trailer Bid to Haul Dozer 30,000 lbs. 15-Ton Capacity Pintle Hithch Trailer with Beavertail with Trailer Weight of 8,100 lbs. Deck width 8'6" with 34" deck height and 21' Length Deck to have 2" aptong outside with DSS pine Center two speed jack standard equipment 20Ton Ramps with Apitong Wood filled Ramps, standard springs. Frame Mainrails W14'x22 lbs. wide flange I-Beam, one piece cold formed Hi-tensile 50,0000 PSI steel Mainrails from front to drawbar to rear of trailer 8Deg. Tail (safe low loading angel) Crossmembers 6"x 3.7 lbs. per ft. I-Beam pierced through mainbeam Headboard 8" High, Full width of trailer with Drawbar Storage Area Lights sealed L.E.D., 12 volt DOT approved with USA star plus sealed Modular Wiring Harness w/ 7-Way ATA Plug Hitch one piece solid cast steel (adjustible) lunette eye and flange mount Two Safety Chains 1/2" blue-Krome Plated high test, safety hook with Latch 70,000 lbs. Static/ 40,000 lbs. lift (Heavy Duty 2-Speed screw type) 5-tie downs per side with Roto Rings with 360Deg. Swivel 2-Tie Downs each sid on the beavertail for total of 7 each side. Eight 215/75R147.5 (H) Steel belted Radials Four disc typ hubs, egith 6.75 x17.5, 8-Bolt Hub Piloted disc wheels, oil seals Hutch H-9700, Three Leaf, capacity 50,000 lbs. tandem Two Heavy Duty Dexter, 15,000 lbs. each |

Bid specifications for Final Tier 4 Compliand Deere 850L or Equal Crawler Dozer

Compliance

| | | | Overall Wachine |
|-----|------|---------|---|
| 1 | yes_ | _ no | |
| | | | Engine |
| | | | _ Engine meets EPA Final Tier 4/EU Stage IV Emission Standards |
| 3 | yes_ | _ no | _ Six cylinder engine with variable geometry and fixed turbochargers in series. |
| | | | Engine shall have a wet-sleeve cylinder liner design for improved cylinder cooling over dry sleeve and cast-in-bore |
| 4 | yes_ | _ no | |
| 5 | yes_ | _no | _ Engine SAE net rated power at 1700 RPM shall be no less than 225 hp (168 kW) |
| | | | The system shall have a water separator located between the fuel tank outlet and the fuel filters. |
| | | | The engine shall be isolation mounted to reduce vibration and operator fatigue. |
| | _ | | |
| 8 | ves | no | The engine lubrication shall be of adequate design to permit operation on slopes up to 45° Fore-Aft, 30° Side Slope. |
| 9 | ves | | The engine oil and filter change interval shall be no more than 500 hours to reduce operating costs. |
| | , | | Cooling |
| 10 | ves | no | Unit shall have a proportionally controlled, hydraulically driven fan with auto reversing function. |
| . • | , | | The shall have a proportionally controlled, hydraulodily arrively fair with auto reversing function. |
| | | | To reduce plugging, the radiator, hydrostatic and hydraulic coolers shall all be rated at no more than 7 fins per inch |
| 11 | Ves | no | and turbo aftercooler shall be no more than 6.5 fin per inch. All coolers shall be configured in a single plane. |
| • | ,00_ | - ''' — | and tarbo afterbooks shall be no more than 6.5 hir per inch. All coolers shall be configured in a single plane. |
| | | | The pressurized liquid cooling system shall have a water pump driven with an automatically adjusting belt. Radiator |
| 12 | VAS | no | shall be filled with manufacturar's approved entiting an alution that provides protection to at least 1946 5 (1978 0) |
| 12 | yes_ | - 110 | shall be filled with manufacturer's approved anti-freeze solution that provides protection to at least -34° F (-37° C). |
| 13 | yes_ | 110 | Machine must have a heavy duty grill for protection of cooling fan. |
| | | | Powertrain/Brakes |
| 4.4 | | | Transmission shall have the ability for the operator to easily adjust operating parameters such as: FNR shift rate, |
| 14 | yes | no | |
| | | | Dual-path hydrostatic drive with infinite speed capability, dynamic braking, full power turns and counter rotation is |
| 4.5 | | | preferred. The dozer shall be capable of achieving a speed of 6.8 mph (11.0 km/h) for forward and reverse. Design |
| 15 | yes | _no | must permit unrestricted speed and direction changes under full engine rpm and load. |
| | | | Automatic, dual-path, hydrostatic drive; load-sensing feature automatically adjusts speed and power to match |
| | | | changing load conditions; each individually controlled track is powered by a variable-displacement piston pump and |
| | | | motor combination; ground speed selection buttons on single-lever steering and direction control; independently |
| 40 | | | selectable reverse speed ratio presets of 100% ,115% or 130% of forward ground speed, or independent forward and |
| 16 | yes | no | reverse speeds; decelerator pedal controls ground speed to stop and includes service brake function. |
| 47 | | | |
| 17 | yes | .no | The transmission filter shall be no more than 10 micron rated, vertically mounted, spin-on, for quick no-spill changes. |
| | | | The dozer steering will have a singe-lever, direction control and counter rotation with full power turns and infinitely |
| 18 | yes | no | variable track speeds to provide optimum control and maneuverability. |
| | | | The single pedal decelerator will allow the operator to choose between slowing travel speed and engine rpm or travel |
| | | | speed only to help maintain traction without affecting engine power and hydraulic response. Fully depressing the |
| 19 | yes | no | pedal applies the service brakes. |
| | | | Exclusive safety feature engages wet, multiple-disk brakes whenever the park brake button is selected, whenever the |
| | | | engine stops, whenever the decelerator is depressed to the end of travel, or whenever the transmission control switch |
| | | | is placed in the neutral position and motion is detected; machine cannot be driven with brake applied, reducing wear |
| | | | out or need for adjustment; spring-applied, hydraulic release. The operator presence system will only release the park |
| | yes | | brake after the operator is seated with the seatbelt fastened. |
| 21 | yes | no | The park brake shall be sufficient capacity to hold weight of crawler on slope. |
| 22 | yes | no | Diagnostic ports available to check the transmission system |
| | | | Double-reduction, planetary final drives transfer torque loads over three planet gears; mounted independently of track |
| | yes | | frames and dozer push frames for isolation from shock loads |
| 24 | yes | no | Machine must be capable of counter-rotation while if Forward, Neutral, or Reverse. |
| | | | Hydraulic System |
| | yes | | Hydraulic filter shall be spin-on, vertical mounting, no more than 10 micron rated filtration. |
| | yes | no | The hydraulic system shall be variable displacement piston pump with load-sensing proportional pump flow. |
| 27 | yes | no | The hydraulic pump flow will be 41 gpm (155L/pm) to deliver precise metering to low-effort pilot controls. |
| 28 | yes | no | Hydraulic reservoir shall have adequate cooling and filtration to permit 4,000 hour oil drain intervals |
| 9 1 | /PC | | The hoses shall use O-ring face scale to provide maximum look provention |

| | | | Electrical |
|----|------------|---------|--|
| 30 | yes_ | _no | Batteries shall have a minimum CCA rating of 950 |
| | | | Alternator shall be sealed with and have a minimum of 130 amps |
| | | | _ The dozer shall come with LED work lights (10 LED lights total) 26,000 lumens |
| 02 | , , | - ''''— | Undercarriage |
| | | | |
| | | | Eight track rollers on all PAT and OSD configurations with front and rear track guides and sprocket guards. The |
| | | | dozer shall have a minimum of two carrier rollers on each side. Sealed and life-time lubricated rollers, idlers and track |
| 33 | yes_ | _no | |
| | | | The dozer shall have two carrier rollers on each side, through-hardened, sealed and lubricated for added wear |
| 34 | yes_ | _no | |
| | | | 24" Extreme Service Shoes and Extended Life Undercarriage for use in highly abrasive material and rocky conditions. |
| | | | Heavy-duty sealed and lubricated rollers, idlers and track chain. Chains must be Sealed and lubricated with SC2 |
| 35 | yes_ | nο | |
| | | | Full Length Rock Guards |
| | | | |
| 37 | yes_ | - 110 | _ Sprocket Segments with Recesses for heavy mud conditions. |
| | | | Operator Station |
| 38 | yes_ | _no | _ The enclosed operators station shall be ROPS/FOPS certified. |
| | | | The operators seat shall have adjustments for operator height and weight and lumbar adjustment in the backrest, heat |
| 39 | yes_ | no | and ventilation with heavy-duty air suspension. |
| | _ | | |
| 40 | ves | no | Operators station will be mounted using viscous style cab isolators and be equipped with a 3 in (76 mm) seat belt. |
| | | | Two 12 volt power ports will be provided. |
| 71 | ycs | . 110 | |
| | | | The dozer instrumentation will include dash mounted gauges and/or monitoring system that will include: transmission |
| 40 | | | temperature, engine coolant temperature, engine oil pressure, hydraulic filter restriction, transmission filter restriction, |
| 42 | yes_ | .no | _ fuel, DEF, electric voltage, and hour meter. |
| | | | |
| | | | Machine shall be equipped with Eco Mode that is operator enabled to save fuel with no loss in performance. Eco |
| 43 | yes | no | _ Mode can be permanently turned on or off by the owner so the operator can not override Eco Mode status. |
| | | | The operator station shall have electric, illuminated gauges for engine coolant temperature, engine oil pressure; fuel, |
| 44 | yes | no | |
| | <i>'</i> – | | The cab shall include air conditioning with one fresh air filter and a separate recirculation air filter for operator |
| 45 | yes_ | nο | |
| | | | _ procession The cab HVAC system shall be equipped with Auto Temperature Control (ATC). |
| | | | |
| | | | _ An HVAC powered precleaner for harsh environments. |
| | yes | | |
| | yes | | |
| 50 | yes | no | Factory integrated rear-view camera that is displayed via the main machine monitor. |
| | | | Operator's station must be able to be tilted up to 65 degrees to the rear of the machine by use of an integrated jack |
| | | | system to allow full access to the components below the cab. Please supply operation and proceedure to lift Cab |
| 51 | yes | no | |
| | , | | General Specifications |
| | | | |
| E0 | | | Periodic maintenance and lube chart shall be posted for easy reference to ensure that maintenance is performed |
| 52 | yes | no | _ according to schedule. |
| | | | Unit shall have a vandal protection package that includes a lockable battery compartment, engine access doors, fuel |
| 53 | yes | no | tank, hydraulic and transmission access door. |
| | | | The unit will be equipped with all standard equipment and shall include: Keyless ignition switch with safety start, horn, |
| | | | 12 volt power port, engine after treatment device, heavy-duty hinged and lockable engine side shields, reverse |
| 54 | yes | no | warning alarm, engine fuel filter, mounting steps and safety hand-holds, front idler shields. |
| | , | | The unit shall come with a factory installed Telematics Machine Monitoring System with lifetime Message Service. If |
| | | | |
| | | | life time is not offered please supply longest time period with bid. Please provide cost of perscriptions and/or fees |
| | yes | | for this service to be life time as an attachment to the bid. |
| 56 | yes | no | Unit shall have a 146" wide PAT blade with cutting edges for finish grading applications. |
| 57 | yes | no | Unit shall have a Heavy Duty Parallelogram Ripper with 5-Shank Pockets and 5-Shanks/Teeth |
| | | | Safety Specifications |
| 58 | yes | no | In Cab mounted 2.5 bs. Fire Extinguisher and bracket. |
| | yes_ | | Rear Camera |
| | | | |
| UU | yes | 110 | Beacon Light |

| warranty and Machine Maintenance Plan |
|---|
| 1 yes no Include in price and list Standard Factory Warranty |
| 2 yes no Include a 60-Months/3000 Hour Extended Powertrain Plus Hydraulics Warranty |
| Include as an attachment the Extended Warranty Options for more years and hours of both powertrain plus hydraulics and Full Machine (Comprehensive). Include what the deduct for the 60/3000 hour Powertrain plus hydraulics warranty quoted in bid would be if another extended warranty option is selected. |
| · /sc |
| 4 yes no Include in price a 60-Month/3000 Hour Maintenance Plan with travel included up to 100-Miles. |
| 5 yes no Supply what is covered and what is not covered with the Plan . |

Bid specifications for Deere 320 P or Equal Backhoe Loader

Compliance

| | | | Overall Machine |
|-----------------|-------------|-------|---|
| 1 | yes_ | no | Made in the U.S.A. |
| | | | Engine |
| 1 | _yes_ | no | Four cylinder, turbocharged, isolation mounted diesel engine designed and built by the manufacturer |
| | | | Engine shall be certified to EPA Final Tier 4/EU Stage IV emissions without requiring the use of a DPF (Diesel Particulate Filter) |
| 2 | yes_ | no | or EGR (Exhaust Gas Recirculation) aftertreatment components for increased uptime |
| _ | | | Engine shall have an individually replaceable, wet-sleeve cylinder liner design to dissipate heat for reduced ring wear and oil |
| 3 | | no | breakdown |
| _4 | _ | no | Engine displacement shall be no less than 4.5 liters (276 cu, in.) |
| 5 | yes_ | | Engine net peak power (ISO9249) shall be no less than 113 hp (84 kW) @ 1900 rpm |
| 6 | yes_ | | Engine shall develop at least a 30% torque rise and should have at least 339 lb-ft (459 Nm) net torque @ 1600 rpm |
| 7 | yes_ | | Daily check points shall be accessible from the right side of the engine and shall be done from ground level |
| 8 | yes_ | _ no_ | Engine shall have a serpentine belt with automatic belt tensioner reducing required maintenance |
| _ | | | Under-hood engine air cleaner shall be dry type, dual element with evacuator valve, restriction sensor and in-cab restriction |
| 9 | | _ no | |
| | yes_ | | The backhoe shall have a one-piece tilt hood for easy engine access without having to remove engine side shields |
| | yes_ yes | | The backhoe shall have an under hood after treatment device (DOC) with curved-end exhaust stack Engine shall have no more than 10-micron rated primary fuel filter with water separator |
| 12 | yes_ | _110_ | Cooling |
| 13 | yes_ | no | Engine coolant shall be rated to -40 degrees (-40 C) |
| | yes_ | | The backhoe shall be equipped with an oil-to-water engine oil cooler |
| | ves_ | | Unit shall have a coolant recovery tank provided |
| | , – | no_ | |
| | , | | The AC condenser will be swing-out for fast radiator clean-out, Remote mounted transmission and hydraulic coolers will offer |
| 17 | ves | no | |
| | ′ – | | The hydraulic circuit is oil-to air system and transmission circuits will be water cooled for fast winter warm-up for increased |
| 18 | yes_ | no | productivity |
| | | | Powertrain |
| | | | The transmission shall be a hydraulically actuated powershift with Autoshift control and a torque converter with maximum |
| | | | transport speed of 24.9 mph. Clutch-free; fully synchronized five forward (automatically shifts between 2nd and 5th gear when |
| 19 | yes_ | _ no | Autoshift is engaged), three reverse speeds |
| | | | The sealed axle, with no breather, will be mechanical -front-wheel-drive with traction control limited-slip differential with electric |
| 20 | ves | _no_ | |
| | , – | | The machine will disengage MFWD in 4th gear to allow for longer life of tires and drive train but will engage MFWD when brakes |
| 21 | yes | _no | are applied for four wheel braking |
| | yes_ | | The axle will be sealed to protect against contamination |
| 23 | yes_ | _ no | The driveshaft will be painted for protection, and will have an optional, factory installed, full guard. |
| 24 | yes | _ no | _ Full MFWD driveshaft Guard |
| 25 | yes_ | _ no | _ The clutch engaged MFWD can be engaged on the fly during operation. |
| 26 | yes_ | _ no | _ The transmission shall be isolation mounted to the mainframe to minimize shock load stress |
| 27 | yes_ | _ no | _ The rear axle shall be 100% hydraulically locking |
| | | | The single electric Transmission Control Lever will have gear selection fully integrated in the lever as well as forward, neutral and |
| | yes | | reverse (FNR power shuttle). |
| | yes | | Transmission oil cooler shall be provided as standard equipment |
| 30 | yes | _ no | The backhoe shall have hydrostatic power steering with emergency manual mode |
| 24 | | | The machine will have a dial throttle that will allow the operator to road the machine on cruise control. Upon engagement of the |
| 31 | yes | _ no | _ brake pedal, the engine RPMs return to idle |
| 22 | V05 | 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 | | and trouble free service. _ The front axle shall have remote grease bank for front axle for easy access |
| | yes yes | _ | The front axie shall have remote grease bank for front axie for easy access. The rear axie bearings shall be self-lubricating and shall not need to be greased |
| J- 1 | y 03 | _ 110 | The service brakes shall be inboard, wet-multiple disk, self-adjusting and self equalizing and hydraulically actuated for a long and |
| 35 | yes | no | trouble-free life, sealed from water, mud and dust contamination |
| - | , | | The parking brake shall be independent of service brakes, spring applied, hydraulically released, wet multi-disk, and sealed from |
| 36 | yes | no | water, mud and dust contamination. |
| | yes_ | | Tires shall be 19.5-24,12.5/80 |
| | <i>,</i> | | 100 A |

Bid specifications for Deere 320 P or Equal Backhoe Loader

Compliance

| | | | Hydraulic System |
|-----|------|--------|---|
| | | | Hydraulic cooler will have an independent reservoir for continuous running of attachments at high ambient outside air |
| | yes_ | | temperatures |
| 39 | yes_ | _ no | The hydraulic fittings shall have "O"-ring face seal connectors to secure a tight, leak-free seal |
| 40 | ves | no | Machine shall be equipped with Auto Idle to lower rpm when hydraulics are not active to conserve fuel and reduce noise levels. |
| 40 | yes | - 110_ | Machine shall be equipped with Economy Mode with dual feature that can be applied to backhoe or loader functions separately or |
| 41 | yes_ | no | together for improved fuel economy. |
| | ,00 | | The hydraulic filter shall be no more than 4 micron and will be vertically mounted, spin on design for ease of installation and leak- |
| 42 | yes_ | no | |
| | yes_ | | An automatic bucket return-to-dig control will be standard |
| | , – | | Hydraulic pump shall be 43 gpm (163L/min.) @ 2,200 rpm at 3,625 psi (24 993 kPa) closed center hydraulic pressure |
| 44 | yes_ | _no_ | compensated load sensing (PSLS), axial piston driven |
| | | | Electrical |
| 45 | yes_ | _ no | The backhoe shall have a 12 volt system with 145 amp alternator |
| | | | |
| 46 | yes_ | _ no | Dual maintenance free batteries shall be included, 12 volt,1900 CCA, 350-min. rated reserve with disconnect and jump posts |
| 47 | yes_ | _ no | |
| 48 | yes | _ no | |
| 49 | yes_ | _ no | |
| | | | Unit shall be equipped with 10 halogen driving/working lights, (4) front driving/working; (4) rear; (2) side docking lights. The front |
| 50 | yes | _ no | lights shall be adjustable and the bulbs shall be no less than 32,500 candlepower each. |
| - 4 | | | |
| 51 | yes_ | _ no | |
| | | | Machine connectivity to be free from subscriptions or annual renewals that can provide machine data, tack utilization, and review |
| 52 | yes | 20 | diagnostic alerts remotely. Please provide cost of subscriptions and/or fees for this service to be life time as an attachment to the bid. |
| 52 | yes_ | _110 | attachment to the bid. Operator Station |
| 53 | yes_ | no | |
| 00 | ,00 | | Access to the cab shall be from the right and left side with protected, wide, rigid, slip-resistant steps and ergonomically located |
| 54 | yes | no | hand-holds |
| | yes_ | | |
| | ′ – | | Coat hook, built-in beverage holder, operator manual storage compartment, interior rearview mirror and two 12 volt outlet shall be |
| 56 | yes_ | no | |
| | | | Unit shall be equipped with illuminated electronic gauges with audible warning for: engine coolant temperature, oil temperature |
| 57 | yes | _no | _ and fuel level. |
| | | | The monitor system shall have audible and visual warnings: engine air restriction, low alternator voltage, engine oil pressure, |
| | | | hydraulic filter restriction, hydraulic oil temperature, parking brake on/off, and low brake pressure. The seat belt will have a visual |
| 58 | yes | _no | |
| | | | Machine manufacturer will provide a factory installed onboard security system for total machine integration. System will have the |
| | yes | | _ ability to accommodate no less than ten operator codes. |
| 60 | yes | _ no | The keyless start will have an electric fuel shut-off and ability to have auto shutdown setup in monitor |
| 04 | | | The monitor will have a multi-language (English, French and Spanish) digital monitor for diagnostics (including diagnostic |
| | yes | | _ messages and fault code readings), calibrations and machine information. |
| | yes | | _ Unit will have a machine security electronic protection system provided through the monitor or sealed switch module. |
| | yes | | _ Unit will have a sealed switch module for easy location of controls on the right hand console and increased durability. |
| | yes_ | | _ Unit shall have digital display for: engine rpm, engine hours, system voltage, and hydraulic oil temperature. _ The foot throttle shall be suspended |
| | yes | | The machine will have a cab and air conditioner available from the factory. |
| | yes | | Machine shall have 2-Lever Mechanical Controls. |
| | yes | | The seat shall be air suspension cloth swivel, with fully adjustable armrests and lumbar support. |
| | ,00 | | General Specifications |
| 69 | yes | no | Vandal protection lockable for Cab, Engine hood, toolbox, hydraulic reservoir and fuel filler |
| | yes_ | | The tilt hood shall have two service positions for easy operation |
| | yes_ | | _ An easy to read periodic maintenance and grease chart shall be easily accessible on the machine |
| | | | Fuel tank capacity shall be no less than 34 gallons (128.7 L) and shall be accessible from the ground and lockable. DEF tank to |
| 72 | yes | no | be no less than 3.6 gallons and accessible from ground and lockable. |
| 73 | yes | no | _ Factory installed fluid sampling valves. |
| 74 | yes | no | Operating weight shall be no more than 15,754 lbs without optional equipment, |

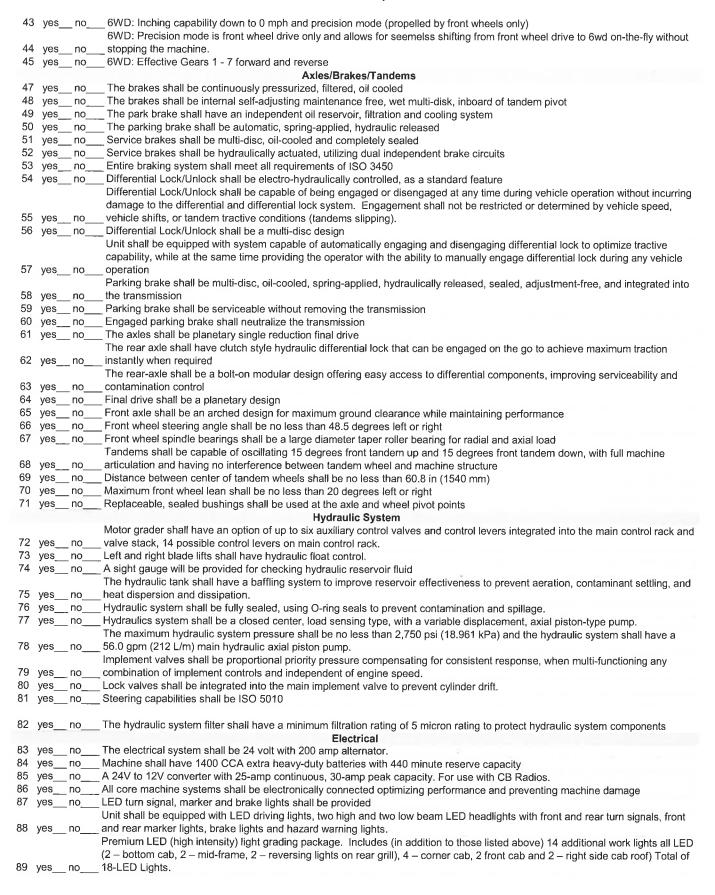
Bid specifications for Deere 320 P or Equal Backhoe Loader

Compliance

| | | | Frames and Structures |
|-----|------|------|--|
| 75 | yes_ | no | The mainframe shall be a one-piece unitized construction for maximum strength |
| 76 | yes_ | no | Unit shall have four built-in vehicle tie downs, two in front and two in rear for safe transport between jobs |
| 77 | yes_ | _ no | _ The side plate thickness on the loader boom, backhoe boom and mainframe shall be 4.5 mil or greater |
| 78 | yes_ | no | Machine shall be equipped with an exterior mounted, ground level accessed and lockable storage compartment |
| 79 | yes_ | no | Optional, replaceable, bolt-on rubber bumpers will be available to protect the grille frame for severe loading applications |
| | | | Backhoe |
| 80 | yes_ | no | _ The backhoe with standard dipperstick digging depth shall be at least 14 ft 3 in (4.34 m) |
| 81 | yes | no | The boom lift capacity at ground level shall be no less than 3283 lb (1489 kg) |
| 82 | yes_ | no _ | Maximum SAE dig depth with extendable dipperstick extended shall be no less than 18 ft 2 in (5.53m) |
| | yes_ | | The lift capacity at full height with standard dipperstick shall be no less than 7415 lb (3364 kg) with Lift Mode |
| 84 | yes_ | _ no | The swing lock pin shall be stored in the operator's station |
| | yes_ | | The stabilizers shall have reversible Heavy Duty pads |
| | yes_ | | Extendible dipperstick shall extend no less than 3 ft 6 in (1.07 m) |
| | yes_ | | The backhoe boom shall be a curved design. |
| | , – | | _ |
| 88 | yes_ | no | _ The backhoe boom shall be a power curve design, hourglass shape for maximum strength and optimized visibility to the work tool |
| | yes_ | | Digging force with standard backhoe, bucket cylinder shall be at least 12,356 lb (55.0 kN) |
| | | | The backhoe shall be equipped with a rubber bumper/linkage style boom locks to keep the backhoe from vibrating on the swing |
| 90 | yes_ | no | frame |
| | yes_ | | Unit shall be equipped with two lever mechanical (ISO) backhoe controls. |
| | yes | _ | The swing casting shall have dual yokes: on top and on the bottom |
| | yes | | 24" HD Backhoe Bucket |
| | yes | | Standard Quick Coupler (non-hydraulic) |
| | | | Loader |
| 95 | yes_ | no | Lift Capacity with 1.3 cu yd at full height shall be at least 7390 lbs (3352 kg) |
| 96 | yes | no | _ Dump Clearance @ 45 deg. shall be no less than 8 ft 10 in (2.7 m) |
| 97 | yes | no | Digging depth below ground, bucket level shall be no less than 5.0 in. (128mm) |
| 98 | yes | no | Bucket breakout force shall be no less than 10,541 lb (46.9 kN) |
| 99 | yes | no | _ Single, greaseless bucket tilt cylinder and bucket level indicator |
| 100 | yes | no | The loader shall have hydraulic self-leveling and bucket-level indicator. |
| 101 | yes_ | no | The loader shall have divergent loader arms for excellent visibility to the bucket |
| 102 | yes_ | no | For truck loading, the loader arms will have a curved-knee design for loading into the center of the truck bed |
| 103 | yes | no | The loader control will be single-lever with electric clutch disconnect |
| 104 | yes | no | Factory installed loader coupler will be available that will fit CAT IT, or current Deere attachments. |
| 105 | yes | no | Loader shall have a single cylinder and linkages for tilt and curl on bucket |
| 106 | yes | no | The loader shall have a non-removable, hinged loader boom service lock. |
| 107 | yes | no | 1.3 Cyd. Coupler Bucket with bolt on cutting edge. |
| 108 | yes | no | Coupler 60x60 Set of HD Pallet Forks |
| | | | Warranty and Machine Maintenance Plan |
| 109 | yes | _no | Include in the price and list Standard Factory Warranty. |
| | yes_ | | Include in the price a 60-Months/3000 Hour Extended Powertrain Plus Hydraulics Warranty |
| | | | Include as an attachment the Extended Warranty Options for more years and hours of both powertrain plus hydraulics |
| | | | and Full Machine (Comprehensive). Include what the deduct for the 60/3000 hour Powertrain plus hydraulics warranty |
| 111 | yes | _no | _ quoted in bid would be if customer chooses to add any of the longer options. |
| | | | Include in the price a 60-Month/3000 Hour Maintenance Plan with travel included up to 100-Miles. Please list what is covered |
| 112 | yes | no | under the maintenance plan on the quote or as a separate attachment. |

Compliance

| | | Overall Machine |
|----|---------|--|
| 1 | yes no_ | Made in the U.S.A. |
| | | Engine |
| 2 | yes no | Engine meets EPA Final Tier 4 and European Union Stage IV standards |
| 3 | yes no | The engine shall have dual safety air cleaner elements, radial seal, dry type |
| | | Engine shall have a wet-sleeve cylinder liner design for improved cylinder cooling over dry sleeve and cast-in-bore design and |
| 4 | yes no | for improved cylinder and piston ring durability. |
| | , | Engine shall be a turbo-charged, direct injection, four stroke, 6-cylinder diesel engine with 4 valves per cylinder designed and |
| 6 | yes no | built by the manufacturer |
| 7 | yes no | Engine displacement for standard engine shall be no less than 9.0 liters (548 cu. in.) |
| • | ,00 | |
| | | Engine shall reach no less than SAE net horsepower in the gears 1-8: |
| 8 | yes no | 1st 210hp, 2nd 225hp, 3rd 240hp, 4th 250hp, 5th 255hp, 6th 265hp, 7th 275hp, 8th 265hp; 6WD is active in gears 1–7 only |
| 9 | yes no | Engine will have a minimum torque rise of 55% in all gears |
| 0 | y00110_ | Unit shall be equipped with Engine Power Management System for variable horsepower for up to 265 SAE net and shall meet |
| 11 | yes no | FT4 standards |
| | , — - | Ether starting aid must automatically meter ether injection to prevent engine damage. |
| 12 | yesno_ | Mobile shall be equipped with electronic ours and matching the regime damage. |
| 12 | | Machine shall be equipped with electronic over-speed protection to prevent the engine and transmission from over speeding, as |
| 13 | yes no_ | a standard feature. |
| | | Electronic Throttle Control (cruise control) shall be available, and shall be controlled by a switch, located on the right-hand |
| | yesno_ | console for resuming and decreasing throttle set. |
| | yesno_ | Unit shall be equipped with engine stall prevention (ESP) as standard equipment |
| | yes no_ | Engine will offer on-the-fly exhaust filter cleaning |
| 17 | | Engine will offer automatic de-rating |
| 18 | yes no_ | Engine shall be rubber isolation mounted to reduce noise and vibration |
| | yes no_ | Engine will offer a lifetime viscous crankshaft damper |
| 20 | yes no_ | Adjustable height engine pre-cleaner. Rotary Ejector Precleaner |
| | | Cooling |
| 21 | yes no_ | Coolant levels should be easily checked by an overflow tank |
| 22 | yes no_ | Engine coolant shall be Cool Guard™ II Extended Life or equivalent for temperatures to -34 F |
| 23 | yes no_ | The engine shall have an air-to-air after cooling for low engine speed lugging |
| 24 | yes no_ | Unit shall have charged air cooler with restriction sensor and in-cab restriction warning light |
| | | Engine fan shall automatically adjust fan speed via a variable displacement hydraulic fan pump to meet engine cooling |
| | | requirements to minimize power demand from the engine, reduce vehicle noise levels, improve fuel economy, and improve |
| 25 | yes no_ | vehicle performance. |
| | | Engine power shall automatically compensate for power draw of the fan system to maintain a constant horsepower available to |
| 26 | yes no | maintain vehicle performance independent of cooling system power draw. |
| | | Engine fan shall be able to automatically reverse and allow the operator to choose the time interval for the reversal to occur |
| 27 | yesno | through the vehicle monitor. |
| 28 | yesno_ | Cooling system shall be isolated from the engine compartment |
| | | Pivoting coolers provide access for quick cleanout of dust and debris. Please provide cleaning proceedure of coolers as an |
| 29 | yes no | attachment named "Coolers and Radiator Cleaning Prooceedure." |
| | | A rear access fan door shall be provided to provide quick air cleanout of dust and debris for the engine radiator, charge air |
| | | cooler, transmission cooler, axle cooler, hydraulic oil cooler and fuel cooler.Please provide cleaning proceedure of coolers as |
| 30 | yes no | an attachment named "Coolers and Radiator Cleaning Prooceedure." |
| | | Power Train |
| 31 | yes no | Direct-Drive Power Auto-Shift Plus Transmission |
| | yes no | Machine shall have no drive shafts that cross over the articulation hitch |
| | yes no_ | The transmission shall have eight forward and eight reverse speeds with built-in diagnostics |
| | yes no | Transmission shall have 5 working gears between 0-10.2 mph (0-16.4 km/h), for dirt applications |
| | yesno_ | Machine shall be equipped with an electronic inching pedal for improved modulation and machine control |
| 30 | yc3110_ | |
| 36 | yes no | The transmission system shall have an independent all recognicis filtration and as all a system with 24 CDM hydrodis and as all as a system with 24 CDM hydrodis and as all as a system with 24 CDM hydrodis and as all as a system with 24 CDM hydrodis and a system with 24 CDM |
| 30 | yes no | The transmission system shall have an independent oil reservoir, filtration and cooling system with 31 GPM hydraulic gear pump |
| 7 | | Tananaisian aballa and billion and billion (CDO) |
| 37 | yes no | _ Transmission shall be event based shifting (EBS) or use load sensing electronic shift modulation with over speed protection |
| | | Transmission shall have clutch overheating protection to prevent clutch failures due to excessive and overuse of the inching |
| | yes no | _ pedal |
| | yes no | Transmission shall be equipped with built-in self-diagnostic capability |
| | yes no | A guard to protect the machine's transmission from debris as standard equipment |
| | yes no | _ 6WD: Automatic dual-path hydrostatic drive with separate left and right systems |
| 12 | yes no_ | 6WD: Operator-selectable 15-position rotary aggressiveness control |



| | | | Unit shall have indicator or warning for: high beams, seat belt, turn signals, cruise control, low alternator voltage, engine air filter |
|-----|------------|-------|--|
| | yes_ | | restriction, engine oil pressure, engine coolant temperature, wait to start (glow plugs), hydraulic filter restriction |
| 91 | yes_ | _ no | Machine shall have back-up lights and sounding alarm as standard when reverse gears are selected |
| | | | Unit shall be equipped with a single LCD monitor displaying gauges for: DPF cleanliness level, engine coolant temperature, |
| | | | transmission oil temperature, hydraulic oil temperature, rear steer articulation angle and fuel level with low level visual warning. |
| | | | The LCD monitor should also be capable of displaying vehicle performance data, diagnostic information, and diagnostic trouble |
| 92 | yes_ | _no | _ codes. |
| | , _ | | Unit shall have digital readout displayed on a single LCD monitor for: engine rpm, odometer, transmission gear indicator, |
| 93 | yes | no | speedometer, hour meter |
| | yes | | Starting system shall be a 24V direct electric type |
| | yes | | All light and wiper switches will be solid-state distribution |
| | yes_ | | The in-cab switch module shall be sealed to keep out dirt, dust and airborne debris |
| | yes_ | | The unit shall have an electric key fuel shut-off switch |
| 01 | ycs | _ 110 | |
| 00 | | 20 | Electrical system shall have a master disconnect switch with a padlock provision (in addition to the ignition switch), accessible from the ground level |
| | yes | | |
| | yes_ | | Cab shall have two beacons LH and RH side with Flip Down Brackets |
| 100 | yes_ | _no | _ The unit shall have a LH and RH side engine compartment light |
| | | | Operator Station (GP) |
| | | | Grade control ready package is standard from the factory. This package shall include integrated mounting brackets, hydraulic |
| | | | valves, electrical harnesses, circle rotate and slope sensors for quick, easy installation of your preferred grade control system |
| 101 | yes | _ no | _ (Topcon, Trimble, Leica). systems. |
| 102 | yes _ | _ no | _ Dual Joystick Controls with steering Wheel included. |
| 103 | yes_ | _no | _ Available Fingertip armrest-mounted electro-hydraulic controls including steering lever as an option to Joystick Controls. |
| 104 | yes | no | Steering wheel and control console shall be tiltable |
| | ′ – | | The ergonomically designed steering wheel with EH Joystick controls or EH Fingertip Controls the steering wheel shall take 6 |
| 105 | yes | no | 1/4 turns (lock to lock). |
| | yes | | Steering wheel included as standard equipment |
| | yes | | Left and right side cab doors are standard |
| | yes | | _ Cab doors shall have a hold-open clasp with a ground-level release and in addition to, a release in the cab |
| | yes_ | | Machine shall provide dual exits allowing for emergency egress should one side become obstructed |
| | yes | | _ cab shall have cup holder, personal cooler holder/storage compartment for operator's manual, with a molded floor mat |
| | yes | | |
| | . — | _no | _ Air vents shall be provided for all front and side tinted windows |
| | yes | _no | _ Cab air pre-cleaner shall be installed to extend filter life by pre-cleaning outside air |
| | yes | | _ Three rear view mirrors shall be provided, one interior and two breakaway exterior mounted adjustible heated mirrors. |
| | yes | | _ AM/FM/WB Radio with Bluetooth,AUX, two speakers, antenna and wiring. |
| 115 | yes | _no | A front window sun visor and a rear window sun shade. |
| | | | The motor grader shall be equipped with low ROPS/FOPS enclosed air conditioned cab, isolation frame mounted for noise and |
| 116 | yes | _no | _ vibration reduction |
| | | | Premium heated, leather/fabric, high wide back, air-suspension seat with armrest, with adjustments for fore-aft position, seat |
| 117 | yes | no | _ height, seat back angle, thigh support, and lumbar support and 3-inch (76 mm) retractable seat belts, |
| | | | A machine security system shall be available to electronically code keys selected by the user to limit usage by individuals or by |
| 118 | yes | no | time parameters. |
| | • | | Left and right side tandem case assemblies shall be covered with punched steel plate to provide an adequate platform for |
| 119 | ves | no | standing and walking. |
| 120 | | no | The unit will come standard with front and rear window defrost |
| | yes | | Decelerator pedal. |
| | yes | | _ The upper front and rear windshield washers with intermittent wipers shall be standard |
| | ,00 | | Grade Pro oth with Fixed lower front and Side Opening windows. Lesingted Clare and Leven front International Control of C |
| 122 | V00 | 20 | Grade Pro cab with Fixed lower front and Side Opening windows, Laminated Glass and Lower front Intermittent Wiper & |
| 123 | - | no | _ Washer. |
| 124 | - | no | _ Cross-slope simplifies holding a consistent slope by reducing operation to single lever as standard equipment. |
| 125 | yes | no | _Return to straight automatically straightens an articulated frame. |
| | | | General Specifications |
| 126 | | no | _ Machine Wheel Base (distance from front axle to mid tandem) shall not be less than 243.0 in (6,172 mm). |
| 127 | yes | no | _ Machine shall be designed and built by the manufacturer. |
| 128 | yes | no | _Transmission shall be designed and built by the machine manufacturer. |
| 129 | yes | no | _Machine height to top of the cab shall not exceed 125 in (3,180 mm). |
| 130 | | no | _ Turning radius will be no greater than 284 in (7,214 mm) |
| | | | Max operating weight of the machine shall not be more than 55,000 lbs (21 772 kg). Weight shall be the heaviest possible |
| | | no | combination of compatible attachments, also including lubricants, full fuel tank and operator of 175 lbs (79 kg). |
| 131 | ves | | |
| 131 | yes | | Typical operating weight of the machine shall be 44.570 lbs (20.247 kg). Weight shall include the base machine weight as well |
| | | | Typical operating weight of the machine shall be 44,570 lbs (20 217 kg). Weight shall include the base machine weight as well |
| 131 | | no | as the front Dozer Blade, rear ripper/scarifier and other equipment |
| 132 | yes | no | as the front Dozer Blade, rear ripper/scarifier and other equipment Base Machine Weight shall not be less than 38,585 lbs (17,382kg). Weight shall include: standard machine configuration, |
| | yes yes | | as the front Dozer Blade, rear ripper/scarifier and other equipment |

| 135 y | | no | Hydraulic disconnect (soft start) and transmission valve solenoid guards shall be standard equipment |
|--------|------|------|---|
| 136 y | /es | no | Ground level fueling and filling for diesel and diesel exhaust fluid shall be standard equipment |
| | | | Standard grey glare-reducing paint shall be used on the front frame and engine enclosure to decrease glare from other |
| 137 y | | | equipment lights and reflection from the sun and snow. |
| 138 y | es | no | The frame shall be ready for snow wing attachment as standard equipment. |
| | | | Frames and Structures |
| 139 y | es | no | The angle of articulation shall be no less than 22 degrees |
| | | | |
| 140 y | _ | no | The articulation joint shall have mechanical locking device to prevent frame articulation while servicing or transporting machine |
| 141 y | | | Unit will be provided with seven-position pin-locking saddle |
| 142 y | es | no | Unit shall be equipped with 5 tie-down locations for ease of transporting |
| | | | Circle and Mold Board |
| | | | Circle shall be a fully sealed bearing style system. Please provide maintenance and adjustment procedures for circle being |
| 143 y | | | quoted. |
| 144 y | | no | Circle teeth contact surfaces shall be induction-hardened on the front 120 degrees of the circle |
| 145 y | | no | Circle shall have no circle adjustments or wear inserts |
| 146 y | | | The unit shall have a circle drive slip clutch to protect the drive pinion from shock loads |
| 147 y | es | | Circle shall be rotated by a hydraulic driven motor |
| 4.40 | | | Circle maintenance shall have five greaseable points serviced on a 500 hour interval and a 4000 hour gearbox oil change |
| 148 y | es | | interval. No other adjustments or maintenance needed. |
| 4.40 | | | The draft frame pivot connection shall have a double Ball-in-Socket design with a minimum ball diameter of 6.0 in (152.4 mm) |
| 149 y | es | | and minimum stem diameter of 2.88 in (73 mm) |
| | | | The standard moldboard shall be at least 14 ft (3657 mm) long, 24 in (610 mm) high and no less than 7/8 in (22 mm) thick with |
| 150 ye | es | no | 5/8 in (16 mm) hardware. 8" Cutting Edges |
| 151 ye | | | Shall have Reversible Overlay End Bits. |
| 152 ye | | no | The mold board shall be pre-stressed during manufacturing for superior strength and durability |
| 153 ye | es | no | The mold board will have quick change side shift wear inserts, capable of being replaced using only a 9/16" wrench. |
| 154 ye | es | no | Moldboard shall have a bank slope angle capability of at least 90 degrees to both sides. |
| 155 ye | | no | Slide rails shall be hardened, continuously welded, and have replaceable bronze-alloy wear inserts top and bottom. |
| 156 ye | | | Moldboard slide rails shall be constructed of a heat-treated, high carbon steel. |
| 157 y€ | | | Moldboard shall have a hydraulic tip control through a range of 42 degrees fore and 5 degrees aft. |
| 158 ye | es | | Throat clearance with standard moldboard shall be at least 4.8 in (123 mm) |
| | | | Blade lift accumulators for added protection of the moldboard and draft frame from impacts with stationary objects shall be apart |
| 159 ye | es | | of machine |
| | | | Machine shall have Machine Damage Avoidance to prevent the moldboard from contacting the tires, cab and cab steps. In |
| 160 ye | es | no | addition prevents the saddle linkage from contacting the top of the draft frame. Operator can override as needed. |
| | | | Serviceability |
| 404 | | | Daily check points shall be accessible from the left side of the engine behind one service door and shall be done from ground |
| 161 ye | | | level with a light as standard equipment. |
| 162 ye | es ı | no | Access to engine will be open from both sides with hinged engine side shields and full access service doors |
| 400 | | | |
| 163 ye | es i | uoi | Engine enclosure and daily service points shall be accessible from ground level, and grouped on the left side of the machine. |
| 101 | | ' | Vandal protection package shall include locking for cab doors, engine side shields (4), top tank radiator access door, engine |
| 164 ye | | 10 | coolant surge tank, hydraulic reservoir cap, fuel tank cap and tool box. |
| 165 ye | | | The dip stick for checking transmission fluid shall be at ground-level |
| 166 ye | es r | | Engine shall have environmentally friendly fuel drain valves |
| 167 | | | Equipped with quick service fluid ports for engine oil, transmission oil, hydraulic oil, axle oil and coolant with ground level quick |
| 167 ye | | | connect access. |
| 168 ye | | 10l | Hydraulic tank capacity shall not be more than 16 gallons (60.6 L). |
| 169 ye | | | Fuel tank capacity shall not be less than 110 gallons (416 L). |
| 170 ye | _ | | Diesel exhaust fluid (DEF) tank capacity shall not be less than 6 gallons (22.5 L) |
| 171 ye | _ | 10(| Cooling system capacity shall not be less than 14.5 gallons (55.0 L). |
| 172 ye | | 10 E | Engine oil capacity shall not be less than 7.1 gallons (27.0 L). |
| 173 ye | | 10 | Fandem housing capacity shall not be less than 19.5 gallons (74.0 L) each. |
| 174 ye | | 10(| Circle gearbox capacity shall not be less than 1.5 gallons (5.7 L) with an 4000 Hr. Gearbox oil change interval. |
| 175 ye | اد: | | Engine primary and final fuel filters shall have 500-hour service replacement interval. |
| 176 ye | s r | | Engine shall have primary fuel filter with fuel water separator and electronic sensor; quick release dual stage filter and primer |
| | | | |
| 177 ye | _ | | lydraulic, transmission, and differential filters shall be banked and easily assessable through the engine compartment doors. |
| 178 ye | _ | 10E | Engine oil filter shall be a 500-hour, vertical spin-on |
| 179 ye | | | Engine oil shall have a service interval of no less than 500 hours |
| 180 ye | | | Hydraulic oil filter shall have a service interval of no less than 2000 hours |
| 181 ye | | | dydraulic oil change service interval shall be no less than 4000 hours |
| 182 ye | s r | юТ | ransmission oil change service interval shall be no less than 2000 hours |
| | | | |

| 183 yes no Transmission oil filter service replacement interval shall be 2000 hours |
|---|
| 184 yes no Tandem oil shall have a service interval of no less than 4000 hours |
| 185 yes no Engine coolant shall have a service interval of no less than 6000 hours |
| 186 yes no Transmission, hydraulic, fuel and axle filter restriction indicator shall be displayed in the cab |
| 187 yes no The centralized lube bank shall be at the articulation joint to give access to difficult to reach zerks |
| 188 yes no Sampling ports shall be accessible from the tandem level and provide access to the engine, hydraulic, coolant, and fuel ports. |
| A two-way communication tool shall give service technicians easy access to stored diagnostic data and allow configuration of |
| 189 yes no machine parameters. |
| Unit shall be equipped with OEM provided wireless communication system capable of monitoring and communicating machine |
| location, fuel burn, as well as multiple other vehicle performance data. In addition, the system shall be capable of updating |
| system control software wirelessly. Life Time Service. Please provide how long service is good for and price out life time if |
| 190 yes no available. Please provide subsription cost with bid as an attachment. |
| Diesel particulate filter (DPF) ash service interval as needed (can go up to 15,000 hours between diesel particulate filter ash |
| 191 yes no removal) Please provide DPF warranty statement on this component as an attachment. |
| Tires / Rims |
| 192 yes no A 14 in (35.6 cm) by 25 in (63.5 cm) size multi-piece tire rim shall be available to provide mounting for 17.5R25 tires. |
| 193 yes no 17.5 R 25 L2 Single Start Radial Tires w/3pc. Rims |
| 194 yes no Spare tire and rim mounted but shipped loose. |
| 195 yes no 1-full set of 4-link tire chains and tighteners. |
| Safety |
| Standard grey glare-reducing paint shall be used on the front frame and engine enclosure to decrease glare from other |
| 196 yes no equipment lights and reflection from the sun and snow. |
| 197 yes no The unit shall have a fan finger guard |
| 198 yes no Machine shall have both a Front and Rear high resolution Cameras with ability to show ither front or rear in the main monitor |
| 199 yes no Machine shall come with a mounted 5.0 lbs. multi purpose (ABC) Dry Chemical Fire Extinguisher |
| 200 yes no Machine shall have installed a slow moving sign |
| 201 yes no Machine shall have wheel chocks that can be mounted and stored on the machine |
| Other Equipment |
| 202 yes no A front mounted Dozer Blade 105" x 37.6" shall be part of the machine |
| 203 yes no Rear ripper Combination with rear hitch and pin, shall have five ripper shank holders and 9 scarifier shank holders |
| 204 yes no Rear ripper shall come with five ripper shanks/teeth and 9-scarifier shanks/teeth |
| Rear ripper shall have a working penetration of maximum 16.8 in (426 mm) and a minimum penetration force of 21,137 lb (9587 |
| 205 yesnokg) at typically equipped operating weight |
| 206 yes no A toolbox shall be provided |
| 207 yes no Machine shall come with Front Fenders |
| Warranty and Machine Maintenance Plan |
| 208 yes no Include in the price and list Standard Factory Warranty. |
| 209 yes no Include in the price a 60-Months/3000 Hour Extended Powertrain Plus Hydraulics Warranty |
| Include as an attachment the Extended Warranty Options for more years and hours of both powertrain plus hydraulics |
| and Full Machine (Comprehensive). Include what the deduct for the 60/3000 hour Powertrain plus hydraulics warranty |
| 210 yes no quoted in bid would be if another extended warranty option is selected. |
| Include in the price a 60-Month/3000 Hour Maintenance Plan with travel included up to 100-Miles. Please list what is covered |
| 211 yes no under the maintenance plan on the quote or as a separate attachment. |
| |