

**ADDENDUM #1**  
**IFB#: 24-10-3484LE**

**NAVAJO NATION FISCAL RECOVERY FUND OFFICE**  
**INVITATION FOR BID (IFB)**  
**IFB #: 24-10-3484LE**  
**FOR PURCHASE OF HEAVY EQUIPMENT**  
**USING RRR FUNDING FOR THE NAVAJO NATION CHAPTERS (7)**

**Addendum is as follows:**

- **Removal of (1) John Deere 50G Mini Excavator**
- **Due Date is extended to October 14, 2024**

**All other terms as outlined in the IFB remain the same.**

Bid Questions shall be emailed ONLY in writing to the following individual:

Dawnell Begay  
Planner/Estimator  
Email: [dbegay@nndcd.org](mailto:dbegay@nndcd.org)

**NAVAJO NATION FISCAL RECOVERY FUND OFFICE  
INVITATION FOR BID (IFB)  
IFB #: 24-10-3484LE  
FOR PURCHASE OF HEAVY EQUIPMENT  
USING RRR FUNDING FOR THE NAVAJO NATION CHAPTERS (7)**

**I. BID INSTRUCTIONS**

Bid Proposal shall be delivered, electronically, via email ONLY to the following individual:

Attention: Dawnell Begay, Planner/Estimator  
Division of Community Development ARPA/FRF Office  
Administration Building #2, 2nd Floor South  
Window Rock, AZ 86515  
EMAIL: [dbegay@nndcd.org](mailto:dbegay@nndcd.org)

Bid Proposal shall be provided in the following format:

1. Subject Title of Email shall state: “IFB # ( BID FOR PURCHASE OF HEAVY EQUIPMENT USING RRR FUNDING FOR THE NAVAJO NATION CHAPTERS (7)”
2. The following documents should be labeled subject to the following name format:
  - a. Heavy Equipment\_(Name of Vendor)\_(Name of File)
3. The following documents (files) are required to be submitted as separate file attachments. Failure to comply with this formatting will subject the bid to being disqualified:
  - a. Letter of Interest
  - b. Specifications (Attachment 1)
  - c. Navajo Nation Suspension and Debarment Form (Exhibit A)
  - d. W-9 (Exhibit B)
  - e. Vendor Quote

Navajo Nation businesses bidding under the Navajo Business Opportunity Act shall clearly note their Priority 1 or Priority 2 status in the letter of interest.

Any bids or portion thereof received after the submittal deadline will not be considered and returned to the submitting entity.

Bid Questions shall be emailed ONLY in writing to the following individual:

Dawnell Begay  
Planner/Estimator  
Email: [dbegay@nndcd.org](mailto:dbegay@nndcd.org)

**The due date for bids is October 14, 2024 at 12:00 pm**

## II. SCOPE OF WORK

The NNDCD is soliciting bids under this IFB 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 IFB 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

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.

## III. BID SCHEDULE

Issuance of Invitation for Bids:	October 4, 2024
Bids Due:	October 14, 2024
Bid Opening:	TBD
Notice of Selection:	TBD

## IV. BASIS FOR AWARD

1. Completeness of the Bid Proposal, including the completed Suspension and Debarment and W9 Forms.
2. Proposal meets the specifications defined in Attachment 1
3. Proposal meets the Maximum Feasible Cost per equipment.
4. Proposal meets all the terms and conditions specified herein, including equipment availability.

## IV. REQUIREMENTS/SPECIFICATION

Bidders responding to this solicitation shall ensure the equipment proposed meets the following requirements:

1. Equipment shall be new.
2. Equipment shall meet the minimum specifications defined in Attachment 1 of this solicitation. Deviations to these specifications shall be clearly noted in accordance with paragraph XVII below.

## V. WARRANTY

The manufacturer's published warranty shall be documented in the bid. The price for a 5-year Extended Warranty must be in the response. The Bidder shall explain the specific coverage of each Warranty, including where maintenance covered under the Warranty will be performed.

## **VI. SHIPPING AND DELIVERY**

The Backhoe is expected to be delivered to the Navajo Nation within 90 days after receiving a signed Purchase Order.

The Navajo Nation shall take delivery of the equipment at the Division of Community Development ARPA/FRF Office Administration Building #2, Window Rock, AZ 86515

At time of delivery, equipment training, vehicle title, warranty, operating manual, and other licensing documentation shall be included.

Shipping and delivery costs are considered the responsibility of the bidder and shall be included in the bid proposal.

## **VII. INSPECTION AND ACCEPTANCE**

Inspection and Acceptance of each equipment shall be performed by the receiving Chapter at time of delivery. The Bidder(s) shall coordinate three business days in advance of each delivery to ensure the Chapter will have representatives available to perform Inspections and Acceptance.

## **VIII. BUY AMERICAN ACT**

The bid shall include a statement in the letter of interest that the equipment complies with the requirements of the Buy American Act.

## **IX. FULLY LICENSED DEALERSHIP**

Bidders must be an authorized and fully certified licensed equipment dealership that meets all the standards and qualifications required by the equipment manufacturers. All bidders shall include a statement certifying their Dealer licensing.

## **X. PREFERENCE OF NAVAJO AND INDIAN-OWNED BUSINESS**

Preference of Navajo and Indian-owned businesses will be given under the Navajo Nation Business Opportunity Act, 5 NNC §201 et. Seq. and the Navajo Nation Procurement Act 12 NNC §303. Certification of Navajo Owned Business will be assured by certificate held by the Navajo Business Regulatory Department. It is the responsibility of the offeror to identify themselves as certified under the Navajo Nation Business Opportunity Act in the letter of interest. As specified in the previous paragraph, vendors must demonstrate they are certified dealerships.

## **XI. PROPRIETY INFORMATION**

Any restrictions on the use of data contained within any proposals must be clearly stated in the proposal itself. Proprietary information submitted in response to this IFB will be handled in accordance with applicable purchasing procedures. Each and every page of the proprietary material must be labeled or identified with the word "Proprietary".

## **XII. RESPONSE MATERIAL OWNERSHIP**

All material submitted in this IFB shall become property of the Navajo Nation and will not be returned to the business.

## **XIII. AWARD OF BID – REJECTION OF BID**

The Navajo Nation reserves the right to accept bids all or in part. At the time of acceptance, the Navajo Nation also reserves the right to increase or decrease quantities of any item at the same price bid. The Navajo Nation reserves the right to reject any and all proposals not within the projected budget.

#### **XIV. NOTIFICATION OF AWARD OF BID**

Upon Selection, the winning Bidder will be contacted by the Navajo Nation to arrange the formal contract documents (Purchase Order) to complete the purchase.

#### **XV. NAVAJO NATION SALES TAXES**

All goods delivered within the territorial jurisdiction of the Navajo Nation are subject to the six percent (6%) Navajo Sales TAX. 24 N.N.C §601 et. Seq. These taxes shall be included and itemized on the FEE schedule for all Bidders.

Bidders shall apply for exemptions of any Federal, State, and local taxes (including Federal Excise Taxes (FET)) at their own cost, including obtaining AZ5000 tax exempt forms in AZ, and equivalent exemptions in NM, Utah, or other US States. The Navajo Nation shall not be responsible for obtaining or providing tax exemptions.

#### **XVI. WITHDRAWAL OF BID**

No bid proposal shall be withdrawn for a period of 90 calendar days after the submission of the bid without the consent of the owner.

#### **XVII. DEVIATIONS**

All specifications listed in Attachment 1 are intended to be the preferred design and performance requirements. Where deviations from the specification are necessary, Bidder will annotate equivalent reliability or performance. If there is insufficient room for detailing a deviation, please indicate "see deviation" and attach, clearly indicating the requirement on any such attachments. Failure to detail all such deviations will provide a basis for rejections of the entire proposal. Substantial deviations will not be considered.

#### **XVIII. BILLING AND PAYMENTS**

Billing and payment shall conform with all Navajo Nation Procurement procedures. To receive timely payment, the winning Bidder has an obligation and responsibility to present invoices that are timely and accurate. The payment procedures established by the Division of Finance shall be adhered to and are to begin whenever Goods or Services are delivered and accepted.

#### **XIX. DISCLAIMER**

Nothing in this IFB is intended to or shall have the effect of waiving Navajo Nation sovereignty. The Navajo Nation is a sovereign government, and all procurements shall comply with Navajo Nation laws, regulations, including the Navajo Nation Business Opportunity Act, Navajo Preference in Employment, and applicable federal laws and regulations.

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**

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 beturbocharged.

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 yes\_ no\_ replacement.

Diesel Particulate Filter (DPF) shall be rated to last the life of the engine. Please Provide as an attachment

9 yes\_ no\_ the warranty on the exhaust after treatment system.

10 yes\_ no\_ Dozer engine shall have a programmable automatic engine shutdown system

11 yes\_ no\_ Dozer shall have an automatic turbo cool-down system that protects the engine from damage.

The primary and secondary fuel filters shall be remote mounted outside of the engine compartment for easy

12 yes\_ 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

14 yes\_ no\_ 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

16 yes\_ no\_ volts

17 yes\_ no\_ Unit shall have cab mounted lights Front Mounted (2), Rear Mounted (2), and 2 rear reflectors

**Transmission**

18 yes\_ no\_ Dual-path hydrostatic drive with infinite speed capability, dynamic braking, full power turns and counter

19 yes\_ no\_ A load sensing system that works to downshift and upshift automatically

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 ReverseRatio.

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

22 yes\_ no\_ neutral.

23 yes\_ no\_ 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**

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 .

**Final Drive**

27 yes\_ no\_ 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**

- 28 yes\_ no\_ Six track rollers with front and rear track guides and sprocket guards. The dozer shall have one carrier roller on each side. Sealed and life-time lubricated rollers, idlers and track chain.  
LGP Track gauge 1651 mm (65 in.). The track length on the ground shall be a minimum 2433 mm (96 in.)  
LGP. Track shall be 406 MM(16 in.) grouser track shoes. Ground pressure not to exceed 31.3 kPa (4.5 psi).
- 29 yes\_ no\_ Minimum ground clearance of 329 mm (13 in.).  
Sealed and lubricated with Moderate Service Shoes- With Maximum extended Life Undercarriage. Max Life undercarriage with SC2 Bushings along with larger track links, rollers, and idlers to increase component life
- 30 yes\_ no\_ before replacement in needed.

**Dozer**

- The dozer shall be a hydraulically actuated, inside mounted all hydraulic blade (power-angle-tilt PAT). The blade hydraulic system shall provide raise, lower, tilt, angle and float. The blade capacity shall be a minimum
- 31 yes\_ no\_ 3.1 cu. yd. (2.3 m<sup>3</sup> for an LGP machine).
- The dozer tilt shall be a minimum of (15.7 in.) for LGP. The minimum blade height 1067 mm (42 in.) for LGP,
- 32 yes\_ no\_ and minimum blade width of 3150 mm (124 in.) for LGP track frame.
- The dozer blade must be equipped with a three-piece replaceable cutting edge. The dozer shall have
- 33 yes\_ no\_ adjustable blade pitch from 52° cutting edge angle in the back position to 60° in the forward position .

**Hydraulic System**

- 34 yes\_ no\_ The system shall have a maximum flow of 16 gpm (60.1 Umin .) flow and provide adequate cooling .  
The hydraulic system shall be sealed and have a reservoir independent of transmission system. There shall be adequate filtration and cooling of the hydraulic system to support 4,000 hour oil and filter changes. Oil
- 35 yes\_ no\_ shall be multi-viscosity engine oil.
- 36 yes\_ no\_ All hoses shall be of an a-ring seal design to reduce leakage and facilitate repairs.
- 37 yes\_ no\_ 4 Function Manual Hydraulic controls for the Power-Angle-Tilt (PAT)

**Operator's Station**

- The enclosed operator's station shall be ROPS (ISO 3471 - 2008) and FOPS (ISO 3449 - 2005) certified. It shall be isolation mounted and include a roof panel. Instrumentation vandal protection shall be included on
- 38 yes\_ no\_ ROPS canopy unit.
- The operator seat shall have adjustments for operator height and weight, and lumbar adjustment in the
- 39 yes\_ no\_ backrest.
- The cab shall include air conditioning with two fresh air filters and a separate recirculation air filter for
- 40 yes\_ no\_ operator protection .
- EH controlled machines shall have touchscreen primary monitor displaying gauges and monitoring system that will include: transmission temperature , engine coolant temperature, engine oil pressure, transmission charge pressure, hydraulic filter restriction, transmission filter restriction, electric voltage , engine RPM ,
- 41 yes\_ no\_ transmission speed range/direction and hour meter.
- 42 yes\_ no\_ The cab shall have continuous and unobstructed glass from roofline to floor for visibility in tight quarters.
- Cab shall have two cup holders. Personal cooler holder/storage compartment for operator's manual and a
- 43 yes\_ no\_ rubber floor mat
- The operator station shall have an electronic touchscreen monitor system with audible and visual warning for: low alternator voltage; engine oil pressure; engine coolant temperature; indicator; hydraulic oil filter restriction; transmission oil filter restriction; transmission oil temperature; engine air restriction indicator;
- 44 yes\_ no\_ fasten seat belt and park brake warning.
- 45 yes\_ no\_ 3" retractable seat belt shall be standard equipment with an operator presence safety system
- 46 yes\_ no\_ The footrests and full-length armrests shall be adjustable
- 47 yes\_ no\_ Rear Wiper and Washer for rear cab class.
- 48 yes\_ no\_ Rear Camera includes touchscreen POU

**Additional Equipment**

- 49 yes\_ no\_ Key-less start with multiple security modes
- 50 yes\_ no\_ Horn
- 51 yes\_ no\_ 12 Volt power port
- Cold weather Package with ether starting aid, engine block heater (110V}, and All season oil good for -40F to
- 52 yes\_ no\_ 104F
- 53 yes\_ no\_ Dry-type air cleaner with safety element and restriction indicator
- 54 yes\_ no\_ Perforated engine side shields

Bid specifications for Deere 450 LGP or Equal Crawler Dozer

- 55 yes\_ no\_ Reverse warning alarm  
56 yes\_ no\_ Vandal protection providing lockable protection to all openable panels and fuel fill  
57 yes\_ no\_ Heavy-duty bottom guard to include protection to the engine, mid-frame and transmission.  
58 yes\_ no\_ Front idler shaft guards  
59 yes\_ no\_ Front pull hook, bolt on.  
Periodic maintenance and lube chart shall be posted for easy reference to ensure that maintenance is  
60 yes\_ no\_ performed according to schedule.  
61 yes\_ no\_ Full-Length Rock Guards  
62 yes\_ no\_ Front Counterweight 240lbs  
63 yes\_ no\_ Heavy-duty Parallelogram ripper with 5-shank Pockets and (3) Shank/teeth.  
64 yes\_ no\_ Fluid sampling ports for engine oil, hydraulic, and hydrostatic systems.  
Quick Service Package with ports and plumbing for quick evacuation and fill of hydraulic oil, engine oil, and  
65 yes\_ no\_ engine coolant.  
66 yes\_ no\_ Heavy Duty Front Grille

**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 POU

**Warranty and Machine Maintenance Plan**

- 70 yes\_ no\_ Include in the price and list Standard Factory Warranty.  
71 yes\_ no\_ 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**  
72 yes\_ no\_ **warranty option is selected.**

- Include in the price a 60-Month/3000 Hour Maintenance Plan with travel included up to 100-Miles. **Please**  
73 yes\_ no\_ **list what is covered under the Maintenance Plan on the quote or as a separate attachment.**

**Additional Trailer Bid to Haul Dozer**

- 74 yes\_ no\_ 30,000 lbs. 15-Ton Capacity Pintle Hitch Trailer with Beavertail with Trailer Weight of 8,100 lbs.  
75 yes\_ no\_ Deck width 8'6" with 34" deck height and 21' Length  
76 yes\_ no\_ Deck to have 2" aptong outside with DSS pine Center  
77 yes\_ no\_ two speed jack standard equipment  
78 yes\_ no\_ 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  
79 yes\_ no\_ Mainrails from front to drawbar to rear of trailer 8Deg. Tail (safe low loading angel)  
80 yes\_ no\_ Crossmembers 6"x 3.7 lbs. per ft. I-Beam pierced through mainbeam  
81 yes\_ no\_ 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  
82 yes\_ no\_ ATA Plug  
83 yes\_ no\_ Hitch one piece solid cast steel (adjustible) lunette eye and flange mount  
84 yes\_ no\_ Two Safety Chains 1/2" blue-Krome Plated high test, safety hook with Latch  
85 yes\_ no\_ 70,000 lbs. Static/ 40,000 lbs. lift (Heavy Duty 2-Speed screw type)  
5-tie downs per side with Rota Rings with 360Deg. Swivel 2-Tie Downs each sid on the beavertail for total of  
86 yes\_ no\_ 7 each side.  
87 yes\_ no\_ Eight 215/75R147.5 (H) Steel belted Radials  
88 yes\_ no\_ Four disc typ hubs, egith 6.75 x17.5, 8-Bolt Hub Piloted disc wheels, oil seals  
89 yes\_ no\_ Hutch H-9700, Three Leaf, capacity 50,000 lbs. tandem  
90 yes\_ no\_ Two Heavy Duty Dexter, 15,000 lbs. each  
91 yes\_ no\_ 12 1/4" x 5" Electric Brakes  
92 yes\_ no\_ Break-away 12 Volt, wet cell battery with integrated battery charging system  
93 yes\_ no\_ Standard Factory Warranty



## Bid specifications for Final Tier 4 Compliant Deere 850L 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

1 yes\_ no\_ **Made in the U.S.A.**

#### Engine

2 yes\_ no\_ 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\_ design and for improved cylinder and piston ring durability

5 yes\_ no\_ Engine SAE net rated power at 1700 RPM shall be no less than 225 hp (168 kW)

6 yes\_ no\_ The system shall have a water separator located between the fuel tank outlet and the fuel filters.

7 yes\_ no\_ The engine shall be isolation mounted to reduce vibration and operator fatigue.

8 yes\_ no\_ The engine lubrication shall be of adequate design to permit operation on slopes up to 45° Fore-Aft, 30° Side Slope.

9 yes\_ no\_ The engine oil and filter change interval shall be no more than 500 hours to reduce operating costs.

#### Cooling

10 yes\_ no\_ Unit shall have a proportionally controlled, hydraulically driven fan 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 yes\_ no\_ and turbo aftercooler shall be no more than 6.5 fin 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 yes\_ no\_ shall be filled with manufacturer's approved anti-freeze solution that provides protection to at least -34° F (-37° C).

13 yes\_ no\_ Machine must have a heavy duty grill for protection of cooling fan.

#### Powertrain/Brakes

Transmission shall have the ability for the operator to easily adjust operating parameters such as: FNR shift rate,

14 yes\_ no\_ Steering rate, Steering Modulation, Decel pedal response and Reverse Ratio.

Dual-path hydrostatic drive with infinite speed capability, dynamic braking, full power turns and counter rotation is 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

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.

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 single-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

20 yes\_ no\_ 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

23 yes\_ no\_ 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

25 yes\_ no\_ Hydraulic filter shall be spin-on, vertical mounting, no more than 10 micron rated filtration.

26 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

29 yes\_ no\_ The hoses shall use O-ring face seals to provide maximum leak prevention

### Electrical

- 30 yes\_ no\_ Batteries shall have a minimum CCA rating of 950
- 31 yes\_ no\_ Alternator shall be sealed with and have a minimum of 130 amps
- 32 yes\_ no\_ The dozer shall come with LED work lights (10 LED lights total) 26,000 lumens

### 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 chain.
- 33 yes\_ no\_ chain.
  - 34 yes\_ no\_ resistance  
The dozer shall have two carrier rollers on each side, through-hardened, sealed and lubricated for added wear
  - 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\_ no\_ Bushings.
  - 36 yes\_ no\_ Full Length Rock Guards
  - 37 yes\_ no\_ 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 and ventilation with heavy-duty air suspension.
- 39 yes\_ no\_ and ventilation with heavy-duty air suspension.
- 40 yes\_ no\_ Operators station will be mounted using viscous style cab isolators and be equipped with a 3 in (76 mm) seat belt.
- 41 yes\_ no\_ Two 12 volt power ports will be provided.  
The dozer instrumentation will include dash mounted gauges and/or monitoring system that will include: transmission temperature, engine coolant temperature, engine oil pressure, hydraulic filter restriction, transmission filter restriction, fuel, DEF , electric voltage, and hour meter.
- 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 Mode can be permanently turned on or off by the owner so the operator can not override Eco Mode status.
- 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, DEF level and hour meter
  - 44 yes\_ no\_ DEF level and hour meter  
The cab shall include air conditioning with one fresh air filter and a separate recirculation air filter for operator protection.
  - 45 yes\_ no\_ protection.
  - 46 yes\_ no\_ The cab HVAC system shall be equipped with Auto Temperature Control (ATC).
  - 47 yes\_ no\_ An HVAC powered precleaner for harsh environments.
  - 48 yes\_ no\_ Machine must have a keyless starting feature with the ability to store up to 10 operator codes.
  - 49 yes\_ no\_ Machine must have operator presence detection integrated with the seat belt to release the park brake.
  - 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 procedure to lift Cab as an attachment to the bid.**
  - 51 yes\_ no\_ **as an attachment to the bid.**

### General Specifications

- Periodic maintenance and lube chart shall be posted for easy reference to ensure that maintenance is performed according to schedule.
- 52 yes\_ no\_ according to schedule.  
Unit shall have a vandal protection package that includes a lockable battery compartment, engine access doors, fuel tank, hydraulic and transmission access door.
  - 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 warning alarm, engine fuel filter, mounting steps and safety hand-holds, front idler shields.
  - 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 for this service to be life time as an attachment to the bid.**
  - 55 yes\_ no\_ **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.
- 59 yes\_ no\_ Rear Camera
- 60 yes\_ no\_ Beacon Light

**Warranty and Machine Maintenance Plan**

61 yes\_ no\_ Include in price and list Standard Factory Warranty

62 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**

**63 yes\_ no\_ hydraulics warranty quoted in bid would be if another extended warranty option is selected.**

64 yes\_ no\_ Include in price a 60-Month/3000 Hour Maintenance Plan with travel included up to 100-Miles.

65 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** 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

yes\_ no\_ **Made in the U.S.A.**

### Engine

- 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 yes\_ no\_ breakdown
- 4 yes\_ no\_ Engine displacement shall be no less than 4.5 liters (276 cu. in.)
- 5 yes\_ no\_ Engine net peak power (ISO9249) shall be no less than 113 hp (84 kW) @ 1900 rpm
- 6 yes\_ no\_ 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\_ no\_ 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 yes\_ no\_ warning light
- 10 yes\_ no\_ The backhoe shall have a one-piece tilt hood for easy engine access without having to remove engine side shields
- 11 yes\_ no\_ The backhoe shall have an under hood after treatment device (DOC) with curved-end exhaust stack
- 12 yes\_ no\_ Engine shall have no more than 10-micron rated primary fuel filter with water separator

### Cooling

- 13 yes\_ no\_ Engine coolant shall be rated to -40 degrees (-40 C)
- 14 yes\_ no\_ The backhoe shall be equipped with an oil-to-water engine oil cooler
- 15 yes\_ no\_ Unit shall have a coolant recovery tank provided
- 16 yes\_ no\_ Unit shall have an electronically-controlled, variable rate suction-type fan with fan-guard  
The AC condenser will be swing-out for fast radiator clean-out. Remote mounted transmission and hydraulic coolers will offer
- 17 yes\_ no\_ better air exchange and fewer stacked cores.  
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 yes\_ no\_ on/off control  
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
- 22 yes\_ no\_ 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
- 28 yes\_ no\_ reverse (FNR power shuttle).
- 29 yes\_ no\_ Transmission oil cooler shall be provided as standard equipment
- 30 yes\_ no\_ The backhoe shall have hydrostatic power steering with emergency manual mode  
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  
The final drives shall be heavy-duty outboard planetary distributing loads over three gears sealed in cooling oil bath for long-life
- 32 yes\_ no\_ and trouble free service.
- 33 yes\_ no\_ The front axle shall have remote grease bank for front axle for easy access.
- 34 yes\_ no\_ The rear axle bearings shall be self-lubricating and shall not need to be greased  
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.
- 37 yes\_ no\_ Tires shall be 19.5-24, 12.5/80

## Bid specifications for Deere 320 P or Equal Backhoe Loader

### 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.

#### Hydraulic System

Hydraulic cooler will have an independent reservoir for continuous running of attachments at high ambient outside air

- 38 yes\_ no\_ temperatures
- 39 yes\_ no\_ The hydraulic fittings shall have "O"-ring face seal connectors to secure a tight, leak-free seal
- 40 yes\_ no\_ Machine shall be equipped with Auto Idle to lower rpm when hydraulics are not active to conserve fuel and reduce noise levels. Machine shall be equipped with Economy Mode with dual feature that can be applied to backhoe or loader functions separately or together for improved fuel economy.
- 41 yes\_ no\_ The hydraulic filter shall be no more than 4 micron and will be vertically mounted, spin on design for ease of installation and leak-free replacement.
- 42 yes\_ no\_ free replacement.
- 43 yes\_ no\_ An automatic bucket return-to-dig control will be standard
- 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\_ The machine shall have blade type, multi-fused circuits
- 48 yes\_ no\_ The starter shall have a bypass start safety cover
- 49 yes\_ no\_ Cab will be pre-wired for rotating beacon magentic mounted and radio-ready
- 50 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 32,500 candlepower each.
- 51 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
- 52 yes\_ no\_ **Machine connectivity to be free from subscriptions or annual renewals that can provide machine data, tack utilization, and review diagnostic alerts remotely. Please provide cost of subscriptions and/or fees for this service to be life time as an attachment to the bid.**

#### Operator Station

- 53 yes\_ no\_ Unit shall be equipped with isolation mounted modular design ROPS/FOPS canopy and molded roof
- 54 yes\_ no\_ Access to the cab shall be from the right and left side with protected, wide, rigid, slip-resistant steps and ergonomically located hand-holds
- 55 yes\_ no\_ 3" (76mm) retractable seat belt shall be provided
- 56 yes\_ no\_ Coat hook, built-in beverage holder, operator manual storage compartment, interior rearview mirror and two 12 volt outlet shall be provided
- 57 yes\_ no\_ Unit shall be equipped with illuminated electronic gauges with audible warning for: engine coolant temperature, oil temperature and fuel level.
- 58 yes\_ no\_ 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 warning.
- 59 yes\_ no\_ Machine manufacturer will provide a factory installed onboard security system for total machine integration. System will have the 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
- 61 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.
- 62 yes\_ no\_ Unit will have a machine security electronic protection system provided through the monitor or sealed switch module.
- 63 yes\_ no\_ Unit will have a sealed switch module for easy location of controls on the right hand console and increased durability.
- 64 yes\_ no\_ Unit shall have digital display for: engine rpm, engine hours, system voltage, and hydraulic oil temperature
- 65 yes\_ no\_ The foot throttle shall be suspended
- 66 yes\_ no\_ The machine will have a cab and air conditioner available from the factory.
- 67 yes\_ no\_ Machine shall have 2-Lever Mechanical Controls .
- 68 yes\_ no\_ The seat shall be air suspension cloth swivel, with fully adjustable armrests and lumbar support.

#### General Specifications

- 69 yes\_ no\_ Vandal protection lockable for Cab, Engine hood, toolbox, hydraulic reservoir and fuel filler..
- 70 yes\_ no\_ The tilt hood shall have two service positions for easy operation
- 71 yes\_ no\_ An easy to read periodic maintenance and grease chart shall be easily accessible on the machine
- 72 yes\_ no\_ 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 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

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.

#### 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)
- 83 yes\_ no\_ 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
- 85 yes\_ no\_ The stabilizers shall have reversible Heavy Duty pads
- 86 yes\_ no\_ Extendible dipperstick shall extend no less than 3 ft 6 in (1.07 m)
- 87 yes\_ no\_ 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.
- 89 yes\_ no\_ 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
- 91 yes\_ no\_ Unit shall be equipped with two lever mechanical (ISO) backhoe controls.
- 92 yes\_ no\_ The swing casting shall have dual yokes: on top and on the bottom
- 93 yes\_ no\_ 24" HD Backhoe Bucket
- 94 yes\_ no\_ 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.
- 110 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**
- 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.**

**Bid specifications for Final Tier 4 compliant Deere Motor Grader  
772GP or Equal Grader**

**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**

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.)

- 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  
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  
12 yes\_ no\_ Ether starting aid must automatically meter ether injection to prevent engine damage.  
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  
14 yes\_ no\_ console for resuming and decreasing throttle set.  
15 yes\_ no\_ Unit shall be equipped with engine stall prevention (ESP) as standard equipment  
16 yes\_ no\_ Engine will offer on-the-fly exhaust filter cleaning  
17 yes\_ no\_ Engine will offer automatic de-rating  
18 yes\_ no\_ Engine shall be rubber isolation mounted to reduce noise and vibration  
19 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 yes\_ no\_ through the vehicle monitor.  
28 yes\_ no\_ Cooling system shall be isolated from the engine compartment  
Pivoting coolers provide access for quick cleanout of dust and debris. **Please provide cleaning procedure of coolers as an**  
29 yes\_ no\_ **attachment named "Coolers and Radiator Cleaning Procedure."**  
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 procedure of coolers as**  
30 yes\_ no\_ **an attachment named "Coolers and Radiator Cleaning Procedure."**

**Power Train**

- 31 yes\_ no\_ Direct-Drive Power Auto-Shift Plus Transmission  
32 yes\_ no\_ Machine shall have no drive shafts that cross over the articulation hitch  
33 yes\_ no\_ The transmission shall have eight forward and eight reverse speeds with built-in diagnostics  
34 yes\_ no\_ Transmission shall have 5 working gears between 0-10.2 mph (0-16.4 km/h), for dirt applications  
35 yes\_ no\_ Machine shall be equipped with an electronic inching pedal for improved modulation and machine control  
36 yes\_ no\_ The transmission system shall have an independent oil reservoir, filtration and cooling system with 31 GPM hydraulic gear pump  
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  
38 yes\_ no\_ pedal  
39 yes\_ no\_ Transmission shall be equipped with built-in self-diagnostic capability  
40 yes\_ no\_ A guard to protect the machine's transmission from debris as standard equipment  
41 yes\_ no\_ 6WD: Automatic dual-path hydrostatic drive with separate left and right systems  
42 yes\_ no\_ 6WD: Operator-selectable 15-position rotary aggressiveness control

**Bid specifications for Final Tier 4 compliant Deere Motor Grader  
772GP or Equal Grader**

- 43 yes\_ no\_ 6WD: Inching capability down to 0 mph and precision mode (propelled by front wheels only)  
6WD: Precision mode is front wheel drive only and allows for seamless shifting from front wheel drive to 6wd on-the-fly without stopping the machine.
- 44 yes\_ no\_ stopping the machine.
- 45 yes\_ no\_ 6WD: Effective Gears 1 - 7 forward and reverse

**Axles/Brakes/Tandems**

- 47 yes\_ no\_ The brakes shall be continuously pressurized, filtered, oil cooled
- 48 yes\_ no\_ The brakes shall be internal self-adjusting maintenance free, wet multi-disc, inboard of tandem pivot
- 49 yes\_ no\_ The park brake shall have an independent oil reservoir, filtration and cooling system
- 50 yes\_ no\_ The parking brake shall be automatic, spring-applied, hydraulic released
- 51 yes\_ no\_ Service brakes shall be multi-disc, oil-cooled and completely sealed
- 52 yes\_ no\_ Service brakes shall be hydraulically actuated, utilizing dual independent brake circuits
- 53 yes\_ no\_ Entire braking system shall meet all requirements of ISO 3450
- 54 yes\_ no\_ Differential Lock/Unlock shall be electro-hydraulically controlled, as a standard feature  
Differential Lock/Unlock shall be capable of being engaged or disengaged at any time during vehicle operation without incurring damage to the differential and differential lock system. Engagement shall not be restricted or determined by vehicle speed, vehicle shifts, or tandem tractive conditions (tandems slipping).
- 55 yes\_ no\_ Differential Lock/Unlock shall be a multi-disc design  
Unit shall be equipped with system capable of automatically engaging and disengaging differential lock to optimize tractive capability, while at the same time providing the operator with the ability to manually engage differential lock during any vehicle operation
- 56 yes\_ no\_ Parking brake shall be multi-disc, oil-cooled, spring-applied, hydraulically released, sealed, adjustment-free, and integrated into the transmission
- 57 yes\_ no\_ Parking brake shall be serviceable without removing the transmission
- 58 yes\_ no\_ Engaged parking brake shall neutralize the transmission
- 59 yes\_ no\_ The axles shall be planetary single reduction final drive  
The rear axle shall have clutch style hydraulic differential lock that can be engaged on the go to achieve maximum traction instantly when required
- 60 yes\_ no\_ The rear-axle shall be a bolt-on modular design offering easy access to differential components, improving serviceability and contamination control
- 61 yes\_ no\_ Final drive shall be a planetary design
- 62 yes\_ no\_ Front axle shall be an arched design for maximum ground clearance while maintaining performance
- 63 yes\_ no\_ Front wheel steering angle shall be no less than 48.5 degrees left or right
- 64 yes\_ no\_ Front wheel spindle bearings shall be a large diameter taper roller bearing for radial and axial load  
Tandems shall be capable of oscillating 15 degrees front tandem up and 15 degrees front tandem down, with full machine articulation and having no interference between tandem wheel and machine structure
- 65 yes\_ no\_ Distance between center of tandem wheels shall be no less than 60.8 in (1540 mm)
- 66 yes\_ no\_ Maximum front wheel lean shall be no less than 20 degrees left or right
- 67 yes\_ no\_ Replaceable, sealed bushings shall be used at the axle and wheel pivot points

**Hydraulic System**

- Motor grader shall have an option of up to six auxiliary control valves and control levers integrated into the main control rack and valve stack, 14 possible control levers on main control rack.
- 72 yes\_ no\_ Left and right blade lifts shall have hydraulic float control.
- 73 yes\_ no\_ A sight gauge will be provided for checking hydraulic reservoir fluid  
The hydraulic tank shall have a baffling system to improve reservoir effectiveness to prevent aeration, contaminant settling, and heat dispersion and dissipation.
- 74 yes\_ no\_ Hydraulic system shall be fully sealed, using O-ring seals to prevent contamination and spillage.
- 75 yes\_ no\_ Hydraulics system shall be a closed center, load sensing type, with a variable displacement, axial piston-type pump.  
The maximum hydraulic system pressure shall be no less than 2,750 psi (18.961 kPa) and the hydraulic system shall have a 56.0 gpm (212 L/min) main hydraulic axial piston pump.
- 76 yes\_ no\_ Implement valves shall be proportional priority pressure compensating for consistent response, when multi-functioning any combination of implement controls and independent of engine speed.
- 77 yes\_ no\_ Lock valves shall be integrated into the main implement valve to prevent cylinder drift.
- 78 yes\_ no\_ Steering capabilities shall be ISO 5010

- 82 yes\_ no\_ The hydraulic system filter shall have a minimum filtration rating of 5 micron rating to protect hydraulic system components

**Electrical**

- 83 yes\_ no\_ The electrical system shall be 24 volt with 200 amp alternator.
- 84 yes\_ no\_ Machine shall have 1400 CCA extra heavy-duty batteries with 440 minute reserve capacity
- 85 yes\_ no\_ A 24V to 12V converter with 25-amp continuous, 30-amp peak capacity. For use with CB Radios.
- 86 yes\_ no\_ All core machine systems shall be electronically connected optimizing performance and preventing machine damage
- 87 yes\_ no\_ LED turn signal, marker and brake lights shall be provided  
Unit shall be equipped with LED driving lights, two high and two low beam LED headlights with front and rear turn signals, front and rear marker lights, brake lights and hazard warning lights.
- 88 yes\_ no\_ Premium LED (high intensity) light grading package. Includes (in addition to those listed above) 14 additional work lights all LED (2 - bottom cab, 2 - mid-frame, 2 - reversing lights on rear grill), 4 - corner cab, 2 front cab and 2 - right side cab roof) Total of 18-LED Lights.
- 89 yes\_ no\_ 18-LED Lights.



**Bid specifications for Final Tier 4 compliant Deere Motor Grader  
772GP or Equal Grader**

- Unit shall have indicator or warning for: high beams, seat belt, turn signals, cruise control, low alternator voltage, engine air filter
- 90 yes\_ no\_ 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
- 94 yes\_ no\_ Starting system shall be a 24V direct electric type
- 95 yes\_ no\_ All light and wiper switches will be solid-state distribution
- 96 yes\_ no\_ The in-cab switch module shall be sealed to keep out dirt, dust and airborne debris
- 97 yes\_ no\_ The unit shall have an electric key fuel shut-off switch
- Electrical system shall have a master disconnect switch with a padlock provision (in addition to the ignition switch), accessible
- 98 yes\_ no\_ from the ground level
- 99 yes\_ no\_ 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).
- 106 yes\_ no\_ Steering wheel included as standard equipment
- 107 yes\_ no\_ Left and right side cab doors are standard
- 108 yes\_ no\_ Cab doors shall have a hold-open clasp with a ground-level release and in addition to, a release in the cab
- 109 yes\_ no\_ Machine shall provide dual exits allowing for emergency egress should one side become obstructed
- 110 yes\_ no\_ Cab shall have cup holder, personal cooler holder/storage compartment for operator's manual, with a molded floor mat
- 111 yes\_ no\_ Air vents shall be provided for all front and side tinted windows
- 112 yes\_ no\_ Cab air pre-cleaner shall be installed to extend filter life by pre-cleaning outside air
- 113 yes\_ no\_ Three rear view mirrors shall be provided, one interior and two breakaway exterior mounted adjustable heated mirrors.
- 114 yes\_ no\_ 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 yes\_ no\_ standing and walking.
- 120 yes\_ no\_ The unit will come standard with front and rear window defrost
- 121 yes\_ no\_ Decelerator pedal.
- 122 yes\_ no\_ The upper front and rear windshield washers with intermittent wipers shall be standard
- Grade Pro cab with Fixed lower front and Side Opening windows, Laminated Glass and Lower front Intermittent Wiper &
- 123 yes\_ no\_ Washer.
- 124 yes\_ 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 yes\_ 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 yes\_ 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
- 131 yes\_ no\_ combination of compatible attachments, also including lubricants, full fuel tank and operator of 175 lbs (79 kg).
- Typical operating weight of the machine shall be 44,570 lbs (20 217 kg). Weight shall include the base machine weight as well
- 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,
- 133 yes\_ no\_ lubricants, coolants, full fuel tank and operator of 175 lbs (79 kg).
- 134 yes\_ no\_ Six Cylinder, turbocharged with air-to-air after cooler diesel engine and shall be designed and built by the manufacturer

**Bid specifications for Final Tier 4 compliant Deere Motor Grader  
772GP or Equal Grader**

- 135 yes\_ no\_ Hydraulic disconnect (soft start) and transmission valve solenoid guards shall be standard equipment  
136 yes\_ 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 yes\_ no\_ equipment lights and reflection from the sun and snow.  
138 yes\_ no\_ The frame shall be ready for snow wing attachment as standard equipment.

**Frames and Structures**

- 139 yes\_ no\_ The angle of articulation shall be no less than 22 degrees  
140 yes\_ no\_ The articulation joint shall have mechanical locking device to prevent frame articulation while servicing or transporting machine  
141 yes\_ no\_ Unit will be provided with seven-position pin-locking saddle  
142 yes\_ 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 quoted.**  
143 yes\_ no\_ **quoted.**  
144 yes\_ no\_ Circle teeth contact surfaces shall be induction-hardened on the front 120 degrees of the circle  
145 yes\_ no\_ Circle shall have no circle adjustments or wear inserts  
146 yes\_ no\_ The unit shall have a circle drive slip clutch to protect the drive pinion from shock loads  
147 yes\_ no\_ Circle shall be rotated by a hydraulic driven motor  
Circle maintenance shall have five greaseable points serviced on a 500 hour interval and a 4000 hour gearbox oil change  
148 yes\_ no\_ interval. No other adjustments or maintenance needed.  
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 yes\_ no\_ 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 yes\_ no\_ 5/8 in (16 mm) hardware. 8" Culling Edges  
151 yes\_ no\_ Shall have Reversible Overlay End Bits.  
152 yes\_ no\_ The mold board shall be pre-stressed during manufacturing for superior strength and durability  
153 yes\_ no\_ The mold board will have quick change side shift wear inserts, capable of being replaced using only a 9/16" wrench.  
154 yes\_ no\_ Moldboard shall have a bank slope angle capability of at least 90 degrees to both sides.  
155 yes\_ no\_ Slide rails shall be hardened, continuously welded, and have replaceable bronze-alloy wear inserts top and bottom.  
156 yes\_ no\_ Moldboard slide rails shall be constructed of a heat-treated, high carbon steel.  
157 yes\_ no\_ Moldboard shall have a hydraulic tip control through a range of 42 degrees fore and 5 degrees aft.  
158 yes\_ no\_ 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 yes\_ no\_ of machine  
Machine shall have Machine Damage Avoidance to prevent the moldboard from contacting the tires, cab and cab steps. In  
160 yes\_ no\_ addition prevents the saddle linkage from contacting the top of the draft frame. Operator can override as needed.

**Serviceability**

- Daily check points shall be accessible from the left side of the engine behind one service door and shall be done from ground  
161 yes\_ no\_ level with a light as standard equipment.  
162 yes\_ no\_ Access to engine will be open from both sides with hinged engine side shields and full access servicedoors  
163 yes\_ no\_ Engine enclosure and daily service points shall be accessible from ground level, and grouped on the left side of the machine.  
Vandal protection package shall include locking for cab doors, engine side shields (4), top tank radiator access door, engine  
164 yes\_ no\_ coolant surge tank, hydraulic reservoir cap, fuel tank cap and tool box.  
165 yes\_ no\_ The dip stick for checking transmission fluid shall be at ground-level  
166 yes\_ no\_ Engine shall have environmentally friendly fuel drain valves  
Equipped with quick service fluid ports for engine oil, transmission oil, hydraulic oil, axle oil and coolant with ground level quick  
167 yes\_ no\_ connectaccess.  
168 yes\_ no\_ Hydraulic tank capacity shall not be more than 16 gallons (60.6 L).  
169 yes\_ no\_ Fuel tank capacity shall not be less than 110 gallons (416 L).  
170 yes\_ no\_ Diesel exhaust fluid (DEF) tank capacity shall not be less than 6 gallons (22.5L)  
171 yes\_ no\_ Cooling system capacity shall not be less than 14.5 gallons (55.0 L).  
172 yes\_ no\_ Engine oil capacity shall not be less than 7.1 gallons (27.0 L).  
173 yes\_ no\_ Tandem housing capacity shall not be less than 19.5 gallons (74.0 L) each.  
174 yes\_ no\_ Circle gearbox capacity shall not be less than 1.5 gallons (5.7 L) with an 4000 Hr. Gearbox oil change interval.  
175 yes\_ no\_ Engine primary and final fuel filters shall have 500-hour service replacement interval.  
Engine shall have primary fuel filter with fuel water separator and electronicsensor; quick release dual stage filter and primer  
176 yes\_ no\_ pump  
177 yes\_ no\_ Hydraulic, transmission, and differential filters shall be banked and easily assessable through the engine compartment doors.  
178 yes\_ no\_ Engine oil filter shall be a 500-hour, vertical spin-on  
179 yes\_ no\_ Engine oil shall have a service interval of no less than 500 hours  
180 yes\_ no\_ Hydraulic oil filter shall have a service interval of no less than 2000 hours  
181 yes\_ no\_ Hydraulic oil change service interval shall be no less than 4000 hours  
182 yes\_ no\_ Transmission oil change service interval shall be no less than 2000 hours

**Bid specifications for Final Tier 4 compliant Deere Motor Grader  
772GP or Equal Grader**

- 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 machine parameters.  
189 yes\_ no\_ 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 available. Please provide subscription cost with bid as an attachment.**  
190 yes\_ no\_ Diesel particulate filter (DPF) ash service interval as needed (can go up to 15,000 hours between diesel particulate filter ash 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 equipment lights and reflection from the sun and snow.  
196 yes\_ no\_ The unit shall have a fan finger guard  
197 yes\_ no\_ Machine shall have both a Front and Rear high resolution Cameras with ability to show either front or rear in the main monitor  
198 yes\_ no\_ Machine shall come with a mounted 5.0 lbs. multi purpose (ABC) Dry Chemical Fire Extinguisher  
199 yes\_ no\_ Machine shall have installed a slow moving sign  
200 yes\_ no\_ Machine shall have wheel chocks that can be mounted and stored on the machine  
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 kg) at typically equipped operating weight  
205 yes\_ no\_ A toolbox shall be provided  
206 yes\_ no\_ Machine shall come with Front Fenders  
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 quoted in bid would be if another extended warranty option is selected.**  
210 yes\_ no\_ 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.**  
211 yes\_ no\_ 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.**

**ATTACHMENT B**

**W-9 FORM**

# Request for Taxpayer Identification Number and Certification

Go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9) for instructions and the latest information.

**Give form to the  
 requester. Do not  
 send to the IRS.**

**Before you begin.** For guidance related to the purpose of Form W-9, see *Purpose of Form*, below.

<b>Print or type. See Specific Instructions on page 3.</b>	<b>1</b>	Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.)		
	<b>2</b>	Business name/disregarded entity name, if different from above.		
	<b>3a</b>	Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only <b>one</b> of the following seven boxes.  <input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C corporation <input type="checkbox"/> S corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate  <input type="checkbox"/> LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership) _____ <b>Note:</b> Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner.  <input type="checkbox"/> Other (see instructions) _____	<b>4</b> Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):  Exempt payee code (if any) _____  Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any) _____  <i>(Applies to accounts maintained outside the United States.)</i>	
	<b>3b</b>	If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions _____ <input type="checkbox"/>		
	<b>5</b>	Address (number, street, and apt. or suite no.). See instructions.	Requester's name and address (optional)	
	<b>6</b>	City, state, and ZIP code		
	<b>7</b>	List account number(s) here (optional)		

## Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

<b>Social security number</b>									
				-					
<b>or</b>									
<b>Employer identification number</b>									

**Note:** If the account is in more than one name, see the instructions for line 1. See also *What Name and Number To Give the Requester* for guidelines on whose number to enter.

## Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and, generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

<b>Sign Here</b>	Signature of U.S. person	Date
------------------	--------------------------	------

## General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

**Future developments.** For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9).

## What's New

Line 3a has been modified to clarify how a disregarded entity completes this line. An LLC that is a disregarded entity should check the appropriate box for the tax classification of its owner. Otherwise, it should check the "LLC" box and enter its appropriate tax classification.

New line 3b has been added to this form. A flow-through entity is required to complete this line to indicate that it has direct or indirect foreign partners, owners, or beneficiaries when it provides the Form W-9 to another flow-through entity in which it has an ownership interest. This change is intended to provide a flow-through entity with information regarding the status of its indirect foreign partners, owners, or beneficiaries, so that it can satisfy any applicable reporting requirements. For example, a partnership that has any indirect foreign partners may be required to complete Schedules K-2 and K-3. See the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

## Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS is giving you this form because they

**ATTACHMENT A**

**SUSPENSION AND DEBARMENT FORM**

**NAVAJO NATION CERTIFICATION**  
**Regarding Debarment, Suspension, and**  
**Contracting Eligibility**

1. Applicant entity acknowledges that to the best of its knowledge that the Applicant entity, either in its present form or in any identifiable capacity, has not, in accordance with 12 N.N.C. § 361:
  - A. Been convicted of the commission of criminal offenses incident to obtaining or attempting to obtain a public or private contract or subcontract, or in the performance of any such contract or subcontract;
  - B. Been convicted of embezzlement, theft, forgery, bribery, falsification or destruction of records, receiving stolen property, or other offenses indicating a lack of business integrity or honesty, which currently, seriously, and directly affect responsibility as a Navajo Nation contractor;
  - C. Been convicted under antitrust statutes arising out of the submission of bids or proposals;
  - D. Violated contract provisions, including:
    - i. Deliberate failure, without good cause, to perform in accordance with the contract specifications or within the time limit provided in the contract,
    - ii. A recent record of failure to perform or of unsatisfactory performance with the terms of any contract, or
    - iii. Any other cause so serious and compelling as to affect responsibility as a Navajo Nation contractor, including debarment by another governmental entity.
2. Applicant acknowledges that if the Navajo Nation determines that the executed Certification provided herein is untrue or not wholly accurate, it shall be grounds for the Navajo Nation to terminate the contract and pursue other legal remedies, at the Navajo Nation's discretion.
3. Applicant certifies to the best of its knowledge that it is eligible to do business with the

Navajo Nation, in its present form or in any other identifiable capacity, pursuant to 12 N.N.C. § 1501 and 5 N.N.C. § 301. Applicant also acknowledges that per 12 N.N.C. § 1505, it will not be eligible to contract with the Navajo Nation if deemed ineligible by the appropriate department or entity of the Navajo Nation which receives the Applicant's request for consideration for a business opportunity.

\_\_\_\_\_  
Applicant Name

\_\_\_\_\_  
Name of individual signing on Applicant's behalf (print)

\_\_\_\_\_  
Applicant Address

\_\_\_\_\_  
Title of individual signing on Applicant's behalf

\_\_\_\_\_  
Applicant Address

\_\_\_\_\_  
Signature of individual signing on Applicant's behalf

\_\_\_\_\_  
Applicant Address

\_\_\_\_\_  
Date