

## **ROW AND UTILITY TRACTORS SPECIFICATION**

**1.0**        **Scope.** The government has a requirement for two (2) row crop tractors and two (2) Farm Tractors with the salient characteristics stated herein. The row crop tractors will be utilized for rough terrain maintenance and the farm tractors will be used for improved grounds maintenance.

### **2.0**        **Applicable Documents.**

**2.1**        **Order of Precedence.** In the event of a conflict between the text of this Equipment specification and the references cited herein, the more stringent regulation or specification shall take precedence, unless a specific exception to this, order of precedence, is noted in this Equipment specification. Nothing in this specification, however, supersedes applicable laws and regulations unless a specific exemption has been obtained by the Government.

**2.2**        **References.** UFGS-01 35 26, Safety and Occupational Health requirements for the protection of Contractor and Government personnel, property, and resource; American National Standards Institute (ANSI) B11/STD B11.0, standard for Safety of Machinery – General Requirements and Risk Assessment

**3.0**        **Requirements.** The Contractor shall provide all resources necessary to meet the specifications, manufacture, deliver, and demonstrate functional operation of the equipment. The product provided by the contractor shall be the manufacturer's current production model. The Contractor shall not proceed with any verbal or written change(s) to the scope of work from sources other than the Contracting Officer, who will provide changes in writing.

**3.1**        **Farm Tractors.** The contractor shall provide two (2) John Deere 5100E Farm 4WD Tractors or an equivalent make/model that meets all the following salient features in this specification.

- A. Fuel Tank Capacity: 30 gallon (gal) minimum
- B. Transmission: 12 Speed Hydraulic Shuttle
- C. Front Tires: Radial Flotation Turf Tires
- D. Rear Tires: Radial Flotation Turf Tires
- E. Wheelbase: 92.5 in. at minimum
- F. Steering Type: Hydrostatic
- G. Turning Radius: 14.3 Ft.
- H. Brakes: Hydraulic Wet Disc
- I. Weight: 7,937 lb. min
- J. Rear Power Take-Off (PTO): 540 with interchangeable 1000 RPM (revolution per minute) shaft
- K. Rear wheel weights: 2 sets at a minimum of 164 LBS EA.
- L. Grill Guard for front of Tractor

### **3.1.1 Engine**

- A. Number of Cylinders: 4
- B. Displacement: 276 cu.in (Cubic Inches) minimum
- C. Engine Power: 100 Horsepower (hp.) at Minimum
- D. Rated PTO Power: 85 hp. At 2400 Revolutions per Minute (rpm)
- E. Fuel Type: Diesel
- F. Fuel Injection: Direct
- G. Cooling: Liquid
- H. Alternator Amperage: 130 amp minimum
- I. Air Cleaner: Dual Element (dry)

### **3.1.2 Drivetrain**

- A. Transmission: Electrohydraulic shuttle
- B. Main clutch type: Multiple wet disk
- C. 4WD clutch type: Electric over Hydraulic
- D. Differential Lock (front and rear): Limited Slip/Mechanical or Electric

### **3.1.3 Auxiliary hydraulics**

- A. Minimum of 3 rear hydraulic hook ups.

### **3.1.4 Drawbar**

- A. Category 2 drawbar system

**3.1.5 Console Information/Warning Lights.** The console Information/Warning Lights must include the following:

- A. Hour Meter
- B. Battery Discharge light
- C. Engine Oil Pressure
- D. Engine Coolant Temperature
- E. Hydraulic Oil Over Temperature
- F. Power Takeoff (PTO) Operation Indication

### **3.1.6 Cab**

- A. Retractable Sunshade
- B. Heat and Air Conditioning
- C. Front Windshield Wiper
- D. External Left and Right Mirrors
- E. Inside mirror kit
- F. 12-volt power outlet
- G. Cup holder

- H. Sun visor
- I. 7-Pin trailer coupler
- J. 2 Front work lights
- K. Seat- Air Ride suspension (15 to 30 Degree Swivel to the right)
- L. 24 inch Amber LED Light Bar mounted on the cab. (must come on when tractor is running)

**3.1.7** The Tractors provided by the contractor shall be equipped with all other components and parts not specifically mentioned but necessary to provide a functional machine and shall conform, in quality, to that normally provided to the commercial industry.

**3.2** **Row Crop Tractors (2).** The contractor shall provide two (2) John Deere 6R120 Row Crop 4WD (Four Wheel Drive) Tractors or an equivalent make/model that meets all the following salient features in this specification.

- A. Fuel Tank Capacity: 30 gallon (gal) min.
- B. Transmission: 24 Speed Infinitely Variable Transmission (IVT)
- C. Front Tires: 320/85R24
- D. Rear Tires: 420/85R30
- E. Wheelbase: 102 in. at minimum
- F. Steering Type: Hydrostatic
- G. Turning Radius: 14.3 Ft.
- H. Brakes: Hydraulic Wet Disc
- I. Weight: 13,448 lb. min
- J. Rear Power Take-Off (PTO): 540/1000 RPM (revolution per minute)
- K. Rear wheel weights: 2 sets at a minimum of 164 LBS EA.
- L. Grill Guard for front of Tractor
- M. Rear Axle: Bar Axle for Dual Wheel Option Required

### **3.2.1 Engine**

- A. Number of Cylinders: 4
- B. Displacement: 275 cu.in (Cubic Inches) minimum
- C. Engine Power: 120 Horsepower (hp.) at Minimum
- D. Rated PTO Power: 91 hp. At 2400 Revolutions per Minute (rpm)
- E. Fuel Type: Diesel
- F. Fuel Injection: Direct
- G. Cooling: Liquid
- H. Alternator Amperage: 130 amp minimum
- I. Air Cleaner: Dual Element (dry)

### **3.2.2 Drivetrain**

- A. Transmission: Infinitely Variable Transmission (IVT)
- B. Main clutch type: Multiple wet disk
- C. 4WD clutch type: Mechanical, on the go

D. Differential Lock (front and rear): Limited Slip/Mechanical or Electric

### **3.2.3 Auxiliary hydraulics**

A. Minimum of 3 rear hydraulic hook ups.

### **3.2.4 Drawbar**

A. Category 2 drawbar system

**3.2.5 Console Information/Warning Lights.** The console Information/Warning Lights must include the following:

- A. Hour Meter
- B. Battery Discharge light
- C. Engine Oil Pressure
- D. Engine Coolant Temperature
- E. Hydraulic Oil Over Temperature
- F. Power Takeoff (PTO) Operation Indication

### **3.2.6 Cab**

- A. Sunroof with Retractable Sunshade
- B. Heat and Air Conditioning
- C. Front Windshield Wiper
- D. External Left and Right Mirrors
- E. Inside mirror kit and External extendable mirrors
- F. 12-volt power outlet
- G. Cup holder
- H. Sun visor
- I. 7-Pin trailer coupler
- J. 2 Front work lights
- K. Seat- Air Ride suspension
- L. 24 inch Amber LED Light Bar mounted on the cab. (must come on when tractor is running)

**3.2.7** The Tractors provided by the contractor shall be equipped with all other components and parts not specifically mentioned but necessary to provide a functional machine and shall conform, in quality, to that normally provided to the commercial industry.

## **3.3 Safety and Health Requirements.**

The Equipment provided by the contractor shall be equipped with safety devices to adequately protect the operator from all hazard's incident to its operation. The Tractors shall include a seat belt and shall have a Rollover Protection Structure (ROPS). The ROPS must a two-post style and meet OSHA standard 1928.

**3.3.1** Row Crop Tractors and Farm Tractors must be equipped with slow moving vehicle emblem on rear of equipment. The emblem must:

- A. Be an equilateral triangle in shape at least 16 inches wide at the base and at least 14 inches in height, with a bright red border, at least one and three-quarter inches wide of highly reflective beaded material.
- B. A center triangle, at least 12 1/4 inches on each side of yellow-orange fluorescent material.
- C. Backup Alarms

#### **4.0**        **Acceptance**

**4.1**        **Acceptance Testing and Verification.** The equipment shall be tested and verified after delivery to Anniston Army Depot.

**4.2**        **Conformance.** The Equipment shall meet the requirements of this Specification and conform to the Manufacturer's own drawings, specifications, standards, and quality assurance practices. The Government reserves the right to, at any time during the contract period, require proof of such conformance or to inspect the Equipment to determine compliance with the requirements of this Specification.

**4.3**        **Final Acceptance.** The Government will issue a final acceptance only after the contractor successfully completes all requirements herein. Final acceptance will be at Anniston Army Depot. Upon acceptance the government will process an LMP Goods Receipt for payment processing.

#### **5.0**        **Delivery.**

**5.1**        The Contractor shall be responsible for delivering the Equipment to the Anniston Army Depot, 7 Frankford Avenue, Anniston, Alabama, 36201 Bldg.4, Commercial Construction Equipment Maintenance Shop.

**5.2**        The contractor shall deliver the tractors as soon as possible after the award of this contract but not later than 30 September 2023. The quote shall include all freight and delivery charges.

#### **5.3**        **Shipping.**

**5.3.1**        The Contractor shall be responsible for crating and shipping the Equipment and all associated material and components.

**5.3.2**        The contractor crating shall protect the Equipment from damage and weather during handling, shipping and storage of the Equipment.

**5.3.3** The Contractor shall provide shipping details to the Government no less than one (1) week prior to shipment.

**5.4** **Assembly.** The Contractor shall be responsible for assembly of the equipment. Equipment shall be delivered assembled and ready for use.

**6.0** **Documentation.**

**6.1** **Manuals.** All contractor documentation shall be furnished in the English language only. (1) Set of CD-ROM and (2) Sets of printed documentation of the following must be provided by contractor:

- A. Operator's Manual- The Operator Manual shall include the step-by-step procedures required for Equipment startup, normal safe operation and shutdown.
- B. Service Manual - Must include recommended Service Intervals
- C. Parts Manual
- D. Operator Level Preventive Maintenance Checklist
- E. Recommended Spare Parts Listing

**6.2 Other Documentation.** In addition, any other documentation normally furnished with the Equipment shall be provided by the contractor in the English Language only.

**6.3** **Government Furnished Equipment (GFE).** ANAD will furnish no Government equipment to the Contractor.

**6.4** **Warranty.** The contractor shall provide the manufacturer's standard commercial warranty for the tractors and shall begin the day following Government issuance of final acceptance of the Equipment per paragraph 4.0. During the warranty period, the Contractor shall be responsible for all costs including parts and labor required to complete repairs of any defects in machine material, parts or workmanship. The warranty shall be written in the Anniston Army Depot's name.