1. **Agricultural Series Tractor:**

   A. **Weight and Wheelbase:** The tractor furnished must weigh a minimum of 8700 lbs. No counterweight or hydro inflation may be used. Wheelbase shall be at least 90”.

   B. **Engine:** It is intended the base tractor shall be powered by a diesel engine having at least 89 PTO horsepower not to exceed 130 PTO HP. Engine shall be equipped with air filter, oil filter, fuel filter, governor, electric starter, alternator, battery, muffler and cold weather starting aid. Engine shall be supplied with antifreeze protection sufficient for Virginia winter conditions.

   C. **Transmission:** The transmission shall be a partial or full powershift with not less than 12 forward and 4 reverse speeds and have a forward-reverse power shuttle. A higher spec transmission will also be acceptable.

   D. **Clutch:** Shall be single-stage dry disc, minimum 13” diameter, or multiple wet disc, minimum 5.2” diameter.

   E. **Driveline:** Have mechanical front wheel drive and be equipped with power steering.

   F. **Tires:** Tires shall be standard manufacturer tire minimum 8 ply rating, R1 tread.

   G. **Brakes:** Brakes shall be hydraulically operated wet disc type, independently operated, acting on rear wheels.

   H. **PTO & Three-Point Hitch:** The PTO shall be 540/1000 RPM, 1 3/8” spline, fully independent, hydraulically activated. Shall include all required shields. The three-point hitch shall be hydraulically controlled, Category II. The three-point hitch shall also include sway bars and swinging drawbar and implement safety chain.

   I. **Tractor Hydraulics:** Tractor hydraulics shall be capable of supplying at least 18 Gallons Per Minute (GPM) to the remote valves. Unit shall be furnished with a total of 3 remote hydraulic valves. All valves shall be located outside of the cab with controls convenient to the operator.

   J. **Cab:** The tractor shall have a factory installed cab. It shall include safety glass, heater/defroster, factory installed air conditioner, front windshield wiper, and Roll over Protection Service (ROPS) structure as required by OSHA. Cab shall have **flat deck** design. Instrument panel shall include a tachometer, hour meter, engine temperature indicator, and charging system indicator.
Operator’s seat shall be suspension type, fully upholstered, with full operator backrest or be wrap-around design. It shall include a seat belt.

Tractor lighting shall include at least two headlights, tail lights, turn signals, and two amber flashing warning lights visible to both front and rear with a slow-moving vehicle emblem that shall be affixed to rear of tractor. VDOT will install the necessary additional warning lighting and additional conspicuity marking to ensure the safety of the tractor operating on the highway. The additional lighting will be removed at the end of the rental period.

Tractor shall be equipped with right and left outside mirrors.

K. **Paint**: The tractor shall be painted the manufacturer’s standard color.

L. **Delivery**: Tractor shall be fully assembled and ready to operate when delivered to the district issuing the PO, attention the point of contact as identified in Attachment E. Delivery and/or pickup service is an option.

M. **Instruction**: A manufacturer or dealer representative shall provide technical instructions on the operation and maintenance requirements for the unit at time of delivery in each district.

N. **Current Model**: Unit shall be a standard proven model(s) of the manufacturer’s latest current production and include all standard equipment as advertised with additional optional equipment as above. All components, unless otherwise required by the specifications, shall be the standard or optional equipment specifically advertised and installed by the manufacturer. VDOT will accept model(s) available that meet specifications based on availability. The model(s) provided must be mutually agreed upon with between the Contractor or delivering dealer and the District Equipment Manager.

O. **Operator’s Manual**: Shall be provided with each unit delivered.

P. Listing of Tractors offered for rent that meet specifications above. Future replacement models that also meet specifications will be acceptable.