



Claudia Simmons, Manager
Office of Purchasing

The Waste Services Department of Escambia County, Florida desires to purchase:

Quantity: One (1) ea.

Base Description:

Year: 2017

Model: 56000# Waste Disposal Track Type Tractor

Color: Manufacturer's Standard Color

Equipment: To be equipped per specifications.

Warranty: 12 months complete machine/ 60 month/ 7500 hour power train warranty

Vehicle Specifications and Manufacturer's Options

See specifications page(s)

Delivery required (from order date):

120 days

Maximum Budgeted Purchase Amount:

\$413,971.00 Total

VE 16-17.006 Waste Services #3 – Waste Disposal Track Type Tractor

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BASIC SPECIFICATIONS

Basic operating weight shall not be less than 56,000 lb (includes lubricants, coolant, full fuel tank, VPAT blade, cab, hydraulic controls, drawbar and operator).

The overall length of the basic tractor shall not exceed 179 inches (4546 mm).

The overall width over trunnions shall be at least 137 in (3480 mm)

Ground clearance per SAE J1234 will be at least 16 inches (406 mm).

ENGINE

The engine shall be of diesel type, four-stroke cycle, fully equipped with all necessary operating accessories. The engine shall be mounted so as to be accessible for adjustment and normal servicing without being detached from the tractor unit.

The engine shall meet Tier 4 Final/Stage IV emission specifications for the U.S. (EPA) and Europe.

Engine shall develop at least 207 net flywheel hp (154 kW). Net flywheel hp shall be for standard equipped engine operating under SAE standard conditions (J1349) at 77° F (25° C) and 29.32 in Hg (99 kPa) dry barometer using 35° API gravity fuel. Standard equipment shall include turbocharger, aftercooler, fan, air cleaner, water pump, fuel pump, muffler, lubricating oil pump, diesel oxidation catalyst and diesel particulate filter

Engine shall have a turbocharger and aftercooler providing full fwhp to a minimum of 7500 ft (2286 m) before altitude deration.

Engine air cleaner shall have a service indicator.

Machine shall be equipped with a 24-volt electrical starting and operating system.

Machine shall be equipped with water separator.

Engine shall be equipped with an electric fuel priming system.

Engine shall be equipped with a hydraulically driven demand fan to adjust fan speeds dependent on ambient conditions, thus improving fuel efficiency and reducing sound levels.

POWERTRAIN/TRANSMISSION

Transmission shall be a planetary type power shift with torque converter.

Transmission shall provide at least nine speeds forward and nine speeds in reverse.

A single control unit for both direction and speed changes shall control transmission.

Transmission shall have a forward ground speed of at least 7.0 mph (11.3 km/h).

Transmission shall have a reverse ground speed of at least 9.0 mph (14.4 km/h).

Transmission shall have auto-shift and auto-kickdown features available.

Hydraulic system shall have separate pumps for steering and implement control.

STEERING

Integrated electronic steering and transmission shall be available through the tractor manufacturer.

Machine shall utilize differential steering to control the direction and degree of turns, forward-reverse shifting, and gear selection in a single control handle.

Touch shift buttons on the steering control shall shift the electronically controlled powershift transmission.

Tiller bar steering control shall allow operator to work precisely in close areas.

Machine shall utilize a system for improving fuel economy during the reverse travel direction of the dozing cycle.

ADDITIONAL FEATURES

VE 16-17.006 Waste Services #3 – Waste Disposal Track Type Tractor

HYDRAULICS

Hydraulics and controls shall have a fully enclosed protected system.

Hydraulics and controls shall have a load sensing, variable displacement piston pump, which adjusts hydraulic flow to match implement demand.

Hydraulics and controls shall have a single lever for dozer control functions.

Hydraulic steering pump output at 1,001 psi (6900 kPa) shall not be less than 52 gal/min (195 L/min)

Hydraulic implement pump output at 1,001 psi (6900 kPa) shall not be less than 54 gal/min (205 L/min)

Hydraulic lift cylinder flow at 1,001 psi (6900 kPa) shall not be less than 54 gal/min (205 L/min)

Tilt cylinder flow at 1,001 psi (6900 kPa) shall not be less than 29 gal/min (110 L/min)

Maximum hydraulic operating pressure for VPAT machines shall not be less than 3,125 psi (21,550 kPa)

UNDERCARRIAGE

Undercarriage shall have reinforced box section and tubular track roller frame construction to resist bending and torsional loads.

Undercarriage shall have a roller frame attached to the tractor by a pivot shaft and pinned equalizer bar.

Undercarriage shall have eight track rollers per side.

Undercarriage shall have a minimum 90 inch (2286 mm) gauge.

Undercarriage shall have a minimum 129 inches (3270 mm) length of track on ground.

Undercarriage shall have a minimum 8,684 square inch (5.60 square meters) ground contact with standard shoe and VPAT arrangement.

Standard maximum ground pressure of 6.2 psi (42.6 kPa) when equipped with standard shoes, VPAT dozer, cab, fuel and lubricants.

FINAL DRIVES

Final drives shall be fully enclosed.

Final drives shall be single reduction, planetary design.

Final drives shall be of an elevated sprocket design.

OPERATORS STATION

Modular cab shall be available through the tractor manufacturer.

Tractor shall be equipped with electronic indicators and gauges, which monitor critical operational systems and alert the operator when potential problems occur.

Operator seat shall include retractable seat belt.

Cab shall be prewired for a 12 volt or 24 volt radio, equipped with two speakers, an antenna and a radio mount recessed in the headliner.

Operator shall have a clear working view to the blade and rear of the machine provided by a tapered hood, notched fuel tank and large single pane windows as well as a low rear window.

Seat shall have standard adjustable arm rests that are adjustable without the use of tools.

Instrument panel shall have easy to read gauges and warning lamps that keep the operator aware of fuel level, hydraulic oil temperature, engine coolant temperature, powertrain oil temperature, engine RPM. All gauges shall be easily visible in all external light conditions.

Cab shall be equipped with heating and air conditioning and controls shall be easily accessible from the operators seat.

An electronic rocker switch enabled work tool lockout valve shall be provided to prevent inadvertent operation of the hydraulic work tool attachments.

A decelerator pedal shall give the operator full control of the machine when the engine is at high idle.

Low-effort, electro-hydraulics shall be standard for easy operation and precise work tool control.

ADDITIONAL FEATURES

VE 16-17.006 Waste Services #3 – Waste Disposal Track Type Tractor

Machine shall be equipped with an operator presence detection system to prevent accidental machine or implement movement when an operator is not in the seat.

DOZER BLADE

VPAT bulldozer shall be a maximum 164 inches (4160 mm) wide. VPAT bulldozer shall be a minimum 47 inches (1191 mm) high. VPAT bulldozer shall have a minimum 20 inch (502 mm) tilt.

VPAT bulldozer shall have a minimum 51 inch (1283 mm) lift above ground.

VPAT bulldozer shall have a minimum 26 inch (672 mm) drop below ground.

VPAT bulldozer shall have a minimum dozer capacity of 6.65 cubic yards (5.08 cubic meters).

SERVICEABILITY

Major components shall be made as modules that can be removed without disturbing or removing others.

Machine shall have a monitoring system that is easily upgradeable by flashing software.

Powertrain oil filter shall be mounted in the right hand fender for ease of service.

Powertrain pressure taps shall be mounted in the rear of the machine for ease of service and aiding machine diagnostics.

Engine oil filter shall be located on the engine.

Machine shall have sight gauges, easy to access filter, oil and coolant ports and an engine compartment mounted work light.

The engine shall have a minimum of 500-hour oil change interval. Transmission shall have a minimum 1000-hour oil change period. Final drives shall have a minimum 2000-hour oil change period. Undercarriage shall have lifetime lubricated track rollers.

Undercarriage shall have lifetime lubricated carrier rollers (if equipped).

Undercarriage shall have sealed and lifetime lubricated idlers.

Undercarriage shall have the capacity of replacing worn sprocket segments without breaking track.

Undercarriage shall have hydraulic track adjustment by grease gun, fully sealed.

Undercarriage shall have bolt-on, replaceable sprocket segments.

Final drives shall be of modular design for easy service, allow for removal with only breaking track.

Quick disconnect fittings shall allow for fast diagnosis of the powertrain and hydraulic oil systems.

MINIMUM SERVICE FILL CAPACITIES

Fuel tank capacity shall not be less than 108.7 gal (411 L).

Cooling system capacity shall not be less than 13.4 gal (51 L).

Engine crankcase capacity shall not be less than 6.5 gal (24.6 L)

Power train capacity shall not be less than 39.1 gal (148 L)

Each final drive shall have a capacity of not less than 3.6 gal (13.5 L)

Each roller frame shall have a capacity of not less than 6.6 gal (25.0 L)

Hydraulic tank capacity shall not be less than 17.3 gal (65.5 L)

ADDITIONAL FEATURES

VE 16-17.006 Waste Services #3 – Waste Disposal Track Type Tractor

Pivot shaft compartment capacity shall not be less than 1.3 gal (5 L)

Diesel Exhaust Fluid tank capacity shall not be less than 4.5 gal (17.1 L)

Machine shall have a wireless fleet tracking system available to track location, machine hours, active and logged service codes and security alarms. This system shall be able to connect to other onboard systems, issue email or pager alerts and provide fuel usage information.

WASTE HANDLING AR, VPAT

INCLUDES:

PRECLEANER, WITH SCREEN

ENGINE, THERMAL SHIELD

FAN, AUTO REVERSING

ALTERNATOR, 150 AMP, DUCTED

GUARD, BOTTOM, SEALED, HD

SEAL GROUP, HIGH DEBRIS

GUARD, LIGHTS

HANDLES, HEAVY DUTY, VPAT

FINAL DRIVE, LGP, GUARDED

Includes two final drives with labyrinth outer guard rings for applications where protection from winding materials is needed.

Final drive seal guards with vertical labyrinth protect the Duo Cone seals.

OIL CHANGE SYSTEM, HIGH SPEED

Easy access Wiggins connectors and remote engine and powertrain drain lines for quick, and easy oil changes without having to use gravity drains

UNDERCARRIAGE, HD, WASTE

Includes Heavy Duty Undercarriage Components and Kevlar guarded and sealed idler. Also includes two center track guide guards and tall flange track guiding rollers in all positions except end rollers

LIGHTS, 10, PREMIUM

Provides 4 lights mounted on top of dozer lift cylinders facing forward, 2 mounted on ROPS facing forward, 4 mounted on ROPS facing rearward.

CAB, DUAL PANE

Enhanced cab provides higher cab pressurization for improved cab air quality in dusty applications. Includes a power precleaner & dual pane glass and high efficiency filter which reduces system maintenance intervals

AIR CONDITIONER, ROPS

ADDITIONAL FEATURES

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Provides ROPS mounted air conditioning condenser core and fans.

Prevents early plugging of air conditioning condenser core in debris laden environments such as waste handling sites. Mounts to rear of ROPS.

STRIKER BAR BOX, REAR

Includes drawbar and storage area. Mounts to rear of machine and helps protect fenders and other sheet metal from debris carried by track.

LIGHT, WARNING, STROBE

Provides a heavy duty single flash

strobe beacon unit, which is weather sealed and water resistant with the power supply encased in gel (anti-vibration). The beacon is wired directly and can only be turned off by using the disconnect switch.

VISIBILITY ARR, SINGLE CAMERA

The camera system can be used to enhance the operators visibility of his surroundings, or provide a better view of his/her work tool.

The camera is displayed through the primary display while the machine is in reverse. The single camera system is compact, rugged, reliable, and extremely simple to use. It is designed to be operated in the "automatic" mode where the display remains in standard mode until the machine is placed in reverse gear. The 7" primary color display is designed to have a sharp, clear picture with a 115 degree horizontal camera mounted on ROPS.

GUARD, FUEL TANK

COUNTERWEIGHT, TWO ADDITIONAL

For use in waste handling applications.

HITCH, FRONT

Provides a front clevis on the sealed bottom guard

VPAT LGP DOZER PACKAGE

Includes trunnions, c-frame, PAT blade, two lift cylinders with lines, stable blade sensor group, finish dozing cutting edges and end bits.

EXTENDED WARRANTY

Powertrain components to be covered under warranty for 60 months or 7500 hours.

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Posting Date	Tuesday, January 17, 2017
Due Date for Offers	Thursday, February 16, 2017
Depart. Contact	Pat Johnson, Director Solid Waste
Fleet Maint.	Dennis Rigby – Fleet Maintenance

VE 16-17.006 Waste Services #3 – Waste Disposal Track Type Tractor

Offers for the sale of vehicles meeting the specifications for VE 16-17.006 Waste Services #3 – Waste Disposal Track Type Tractor as listed will be accepted until **5:00 pm on Thursday, February 16, 2017**. Offers exceeding the maximum budgeted purchase price listed will not be accepted.

Instructions to Offerors

All offers to be considered shall be in the possession of the Office of Purchasing prior to the time of the solicitation closing. Offers may be mailed or delivered in a sealed envelope to:

The Office of Purchasing, 2nd floor, Room 11.101,
 Matt Langley Bell, III Bldg.,
 213 Palafox Place, Pensacola, Florida 32502

And clearly marked with the Specification Number VE 16-17.006 Waste Services #3 – Waste Disposal Track Type Tractor and the name of the offerer.

Acceptable offers must meet the specifications of the vehicle or equipment and the offer must not exceed the posted purchase price.

213 Palafox Place, 2nd Floor, Pensacola, FL 32502, (850)595-4980 www.myescambia.com