

SECTION 1 – GENERAL SPECIFICATIONS

1.1 GENERAL DESCRIPTION – The work to be performed by the Contractor under this Section, shall be Furnishing and Delivery to the State’s Airports Division at the Hilo International Airport the following utility tractor(s) listed below:

Item Description

ONE (1) UTILITY TRACTOR WITH REAR MOUNTED HEAVY DUTY ROTARY CUTTER

As described in Section 2.

The term “vehicle” shall refer to Item Description above and all parts of the general and detailed specifications listed herein.

1.2 GENERAL SPECIFICATIONS – In addition to Detailed Vehicle Specifications listed herein, the following requirements shall form a part of the Specifications:

A. Quality of Vehicle

1. All vehicles offered shall, meet ANSI & OSHA safety requirements, and any other Federal and State safety requirements. If applicable and when requested vehicles shall bear a label or written documentation indicating approval of safety requirements from a bona fide testing laboratory.
2. All vehicles furnished under these provisions and of its respective kind, shall be completely assembled and free of defects, which may render them unfit for use.
3. Vehicles offered shall include any other standard features not listed herein but detailed in manufacturer’s brochures or specifications literature and deemed necessary for the proper and safe operation of the vehicle.
4. No payment, whether partial or final, shall be construed to be an acceptance of defective vehicles.
5. The State may, at any time by written order, stop delivery of equipment not conforming to these specifications. Such stop order shall not relieve the Contractor of his/her obligation to complete his/her contract times, nor shall it in any way terminate, cancel or abrogate the contract or any part thereof.

B. Submittals

Upon delivery, Contractor shall provide the following:

1. Two (2) copies each of owner-operated manuals and one (1) copy each of service and parts manual.
2. Manufacturer's recommended maintenance schedule.
3. List of factory trained and authorized vendors and personnel able to provide Service and support.
4. List of identifying items and systems which require factory authorized Vendors personnel to install or maintain and also stock all necessary parts for same.

C. Delivery

1. Equipment furnished under these specifications shall be delivered within 180 calendar days from Notice of Award date from the Department of Transportation at the following location:

Airports Division, Hawaii District
Hilo International Airport
Maintenance Baseyard
Hilo, Hawaii 96720
Attn. Mr. Calvin Shimizu, Telephone (808) 961-9377 or
calvin.t.shimizu@hawaii.gov

2. Representatives of both the Contractor and the State shall be present at the Delivery date for the purposes of visual inspection and, if necessary for instructions in the use of the vehicles.
3. Prior to delivery, Contractor must contact the State representative at the location indicated above to coordinate delivery arrangements.
4. Upon delivery, if requested by the State, the Contractor shall schedule a training program to demonstrate proper and safe operations and maintenance of equipment. This service shall be made available at no additional cost to the State. (i.e., include cost in bid)

D. Certificates Required

Certificates listed below shall be provided by the Contractor (if applicable) at the time of delivery of the vehicles. The following certificates are essential for the Proper registration and licensing of new vehicles:

1. Hawaii Vehicle Safety Inspection and decal;

2. One of the following:
 - a. Application for Registration of Passenger Carrying Motor Vehicle;
 - b. Application for Registration of Property Carrying Motor Vehicle; and
3. Odometer Certificate for passenger cars (and certain other vehicles as Required by the Division of Motor Vehicle and Licensing);
4. Notarized Certificate of Bill of Sale (not required for Oahu dealerships); and
5. Certificate of Weight and Measures (required if factory-furnished vehicle weight Is unavailable; e.g. vehicles with post-factory modifications or alterations). Certificate must include make, model, number year and vehicle identification number. Verified weight in pounds must be officially machine-stamped; hand written will not be acceptable.
6. Acceptance of and payment for new vehicles will not be made without submittal of necessary certificates. The State shall be responsible for registering and licensing of vehicles; Contractor shall provide temporary license plates to be used during the interim period prior to securing of State of Hawaii license plates.

E. Delivery Extension

1. Contractor shall complete delivery within 365 days after notice of award. If Contractor fails to deliver within the time allowed, liquidated damages in the amount of \$50.00 for each and every calendar day the contractor fails to deliver shall apply.
2. Contractor shall not be held responsible for delay due to reasons beyond his control, provided that prior to the delivery deadline, he/she notifies the BUYER of such delay and the reasons for such delay and request for extension in writing.
3. **REQUEST FOR EXTENSIONS WILL NOT BE CONSIDERED WITHOUT A COPY OF THE FACTORY ORDER AND A COPY OF THE FACTORY CONFIRMATION OF THE ORDER AND WITHOUT DOCUMENTS SUBSTATATING THAT THE CAUSE (S) FOR DELAY IS, IN FACT, BEYOND THE CONTROL OF THE CONTRACTOR.**

F. Warranty

1. Equipment furnished shall be fully guaranteed by the Contractor for a minimum period of one (1) year or for the period guaranteed by the manufacturer, whichever is longer, against defects resulting from the use, negligent workmanship or against all design and manufacturing defects.

2. Warranty shall not be less than one year on all accessory items; to include parts and labor.
3. Local warranty service for all components must be made available on the island of Hawaii.
4. Warranty period shall begin from the date vehicle is accepted and placed in service.
5. Warranty documents shall be delivered with vehicles and shall detail Manufacturer's obligation and warranty procedures to include any accessory equipment.
6. Contractor shall replace or repair defective material and / or workmanship at no cost to the State for parts and labor during the warranty period; such defects are not due to abuse or negligence on the part of the State.

G. Invoicing

1. Contractor shall submit original and three copies of the invoice to the delivery address.
2. Invoice should reference the contract number.

SECTION 2 – ONE (1) UTILITY TRACTOR WITH REAR MOUNTED HEAVY DUTY ROTARY CUTTER

2.1 SCOPE OF WORK - The work consists of furnishing and delivering ONE (1) EACH UTILITY TRACTOR WITH REAR MOUNTED HEAVY DUTY ROTARY CUTTER to the island of Hawaii. The Contractor shall present the equipment complete, ready to use and fully operational.

2.2 The specifications contained herein establishes **minimum** standards for **the Utility Tractor with Rear Mounted Heavy Duty Rotary Cutter** and shall include any other standard features not listed but detailed in manufacturer’s brochures and deemed necessary for proper and safe operations of the equipment.

- A. Model/Year -Latest product model or equal
- B. Type -4-Wheel Drive
-Minimum weight for tractor 3,628.7 kg (8,000 lbs.)
- C. Engine -Diesel powered, liquid cooled
-PTO 67.1 kW (90 HP) minimum.
-Fuel water separator, CONMETCO or equal
-Combination pre-screener/pre-cleaner or turbo cleaner indicator
- D. Transmission -12 x 12 mechanical shuttle, or equal
-Lock type differential
- E. Electrical -Twelve (12) volt system
-Alternator capable of charging at low engine speeds
- F. PTO -Rear PTO at 540 RPM
- G. Steering -power assisted
- H. Brakes -Manufacturer’s standard service and parking brake system
-Non-asbestos material
- I. Tires -All tires mounted on compatible rims
-Front – 11.2 R24 minimum
-Rear – 16.9 R30 minimum
-Spares – One (1) each, front and rear
- J. Axles -Heavy duty front, adjustable treads, front/rear

- K. Hydraulic
 - Open or closed center
 - Suction line shall have a 100 mesh filter/manufacturer recommended
 - Main in tank filter to be 10 micron, 283.9 L/min (75 gpm) full flow with restriction gauge.
 - 3 sets of rear remotes
- L. Color
 - Chrome yellow or equal.

2.3 ACCESSORIES

- A. ROPS and enclosed cab shall meet OSHA requirements; with factory installed air condition
- B. Front safety approved windshield glass with electric wiper motor and washer
- C. Lexan glass to be supplied as protective shield from mowers (at rear and right side)
- D. Reverse warning alarm
- E. Horn
- F. Interior rear view mirror; one (1) exterior mounted left side of cab
- G. Working and traveling lights – headlights; flashing lights front and rear.
- H. Strobe light, twelve (12) volt, amber dome (Whelen strobe with both sides model HELS or manufacturers equal to allow for 360 degree lighting), mounted on top of cab
- I. Rear fenders if available from manufacturer
- J. VHF AM (Amplitude Modulation) transceiver similar to EDO, Avionics corp., COMCO, TAIT, etc. Radio shall have the following frequencies:
 - Channel 1- 121.9 MHz. (FAA Ground Control)
 - Channel 2- 118.10 MHz. (FAA Control Tower)
 - Channel 3- Programmable
 - Channel 4- Programmable
 - Channel 5- Programmable
 - Channel 6- Programmable
 - Channel 7- Programmable

Radio shall have a minimum power output of 10 watts. Radio shall have noise canceling microphone, separate speakers and quarter wave hood lip/lip mount antenna with 2 external speakers 1 mounted in vehicle and the other mounted outside of vehicle and headphone receiver capabilities. Radio must be fully installed and operational.

2.4 Rear Mounted Heavy Duty Rotary Cutter

- A. Heavy Duty Rear Mounted Rotary Cutter (Schulte Model XH1500) or approved equal.
- B. Heavy duty divider gear box of 194 kW (260 HP) rating minimum.
- C. Heavy duty center/wing gear box of 168kW (225 HP) rating minimum with 3” down shaft minimum.
- D. Cutting deck shall have a minimum thickness of 4.6mm (3/16 in., 7 GA).
- E. Cutting width minimum 4.57m (180”).
- F. Cutting height 38 mm to 144 mm (1.5 in. to 17.5 in.) range minimum.
- G. Minimum weight of 2,636 kg (5,800 lbs.).
- H. Shall have front and rear mounted chains or rubber flaps to provide for safety from flying material.
- I. One spare set of blades and attachment accessories.
- J. Accessible grease points for servicing, painted red for visibility.
- K. Cutter shall be able to fold from deployed width to a transportable width of not more than 10 ft.

2.5 OTHER

- A. Unit shall have cushioned, adjustable operators seat with backrest and seat belt.
- B. List of factory trained and authorized personnel who will provide service.

- C. Tractor shall have a two (2) year/2,000-hour warranty.
- D. List of scheduled item/systems which require maintenance by factory authorized.
- E. Front counterweight with frame; 312 kg (688 lbs.) minimum; shall be provided to balance equipment with the rotary cutter attached to equipment.
- F. SMV (Slow Moving Vehicle) emblem.
- G. Operators Manual, two (2) copies. Service and Repair Manual, one (1) copy. Parts Catalog, one (1) copy (for tractor, side extension flail and rear mounted rotary cutter). Book format/CD/DVD.
- H. First service kit to include all necessary filters, as required. (Oil, fuel, air, breather, transmission, etc.)
- I. Hour meter.
- J. 2.2 kg (5 lb.) ABC fire extinguisher mounted in cab.
- K. First aid kit OSHA/ANSI recommended.
- L. All lubrication points shall be painted red.
- M. One (1) set of spare warning decals for cutting unit.

2.6 Training

Contractor shall provide operator and maintenance training to demonstrate proper and safe operation of equipment. This training shall include a minimum of one (1) hour of on site classroom and one (1) hour per operator hands on training. Contractor shall provide classroom site. This training shall be at no additional cost to the State. Training shall be consistent to OSHA requirements.

Copy of attendance record showing class date, time, location, class type, instructor's name and attendees shall be submitted to:

State of Hawaii
 Department of Transportation Airports Division
 Hilo International Airport Maintenance Section
 Attn: General Construction and Maintenance Supervisor
 2450 Kekuanaoa Street Suite 215
 Hilo, Hawaii 96720