**4X4 SEVERE SERVICE, HI-SPEED RUNWAY SNOW PLOW VEHICLE**

**CAB FORWARD CHASSIS WITH TWENTY- TWO FOOT FLARED PLOW**

**Bid#2021-04**

**Addendum #1**

NOTICE OF ACCEPTANCE AS EQUAL, SPECIFIC SPECIFICATIONS IN GENERAL PROVISIONS

**CHASSIS DRIVE ENGINE**

The engine shall be of the EPA “On-Road” compliant, four stroke diesel type, six (6) cylinders, minimum 11.9 liter nominal displacement, developing a minimum of 500 horsepower at 1800 RPM, with engine governed RPM of 2100, Cummins brand or approved equivalent. Engine shall be equipped with latest diesel electronic control and engine management system.

ACCEPTED AS EQUAL: Scania DC-13, Tier 4 compliant engine.

**TRANSFER CASE – AUTOMATIC LOCKING TYPE**

In accordance with FAA Advisory Circular; AC 150/5220-20A, an automatic lockout type transfer case is selected by the purchaser. Bids received without a two-speed automatic lockout type transfer case will be considered non responsive and will not be considered. For safety, it is required that NO driver intervention be required. Manufacturer must provide description and proof of this requirement.

The transfer case shall be a two-speed type with automatic locking/unlocking differential to control the torque between the front and rear axles. The hi-low range selection shall be electric over air actuated and operated from the cab and equipped with Smart Shift® or approved equivalent to eliminate range shifting at excessive speeds. Switch shall be stage bump type, moving the shift from low to high or high to low. For vehicle and equipment protection, if the shift is not completed by the electric/air system within one minute, the system shall cease attempts at range shift and notify the operator of the failure by flashing light at the control switch. Operating range of the transfer case is to be displayed on the main dash LCD screen. The transfer case shall have a torque transmission capacity exceeding the maximum torque developed by the engine and transmission, and shall be approved for the application.

ACCEPTED AS EQUAL: Single speed transfer case, coupled with a 6-speed transmission.

**CAB**

A single piece panoramic electrically heated windshield with reverse slope, minimum 2500 square inches. The windshield shall be heated type, 12VDC with approximately 340 watts of heating power. The side door windows shall be power roll down type, one on each side of cab in each door, 5-1/2 square feet each.

ACCEPTED AS EQUAL: Single piece heated 24V windshield.

**ELECTRICAL & LIGHTING**

Electrical system shall be multiplex technology for efficiency and maximization of control parameters. All lighting on this vehicle shall conform to FMVSS. All lighting shall be 12 volts.

ACCEPTED AS EQUAL: 24V system platform with 12V compatibility.

**ELECTRICAL & LIGHTING**

One (1) 12-volt, 270-amp minimum alternator with built-in regulator.

ACCEPTED AS EQUAL: 24V, 100 amp alternator, equal to 200 amps at 12V.

**ATTACHMENT A**

**BID SHEET**

**ONE (1) 4 X 4 SEVERE SERVICE, HI- SPEED RUNWAY SNOW PLOW VEHICLE**

Delivery Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Not to exceed 240 days from date of award)

Amended: Not to exceed 360 days from date of award.

**BID SHEET OPTION #2**

**TWO (2) 4 X 4 SEVERE SERVICE, HI- SPEED RUNWAY SNOW PLOW VEHICLE**

Delivery Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Not to exceed 240 days from date of award)

Amended: Not to exceed 360 days from date of award.