# Specifications for
# CAT COMMAND TRAILER

1.0 GENERAL
This purchase description establishes the minimum technical requirements for one (1) Commercial Cat Command Trailer for the U.S. Army Aberdeen Test Center. The system shall enable conversion of a man-operated forestry mulcher to remote operation and is intended for field use.

2.0 APPLICABLE DOCUMENTS
The following documents form a part of this purchase description:

- Operator's Manuals (complete set)
- OEM Equipment Certifications of Warranty

3.0 REQUIREMENTS

3.1 System Description
The Cat Command Trailer shall consist of a CAT Command Center, trailer, camera array, CPU, WiFi capability, power converters, and antennas.

3.1.1 CAT Command Center

| Component | Specification |
|---|---|
| Command Station | CAT 576-6000 |
| SEA Station | CAT 599-4855 |
| Display Arm | CAT 580-5669 |
| Pedestal Set | CAT 576-6024 |
| TV's and Monitors | WCA Kit, CAT Command Compliant |
| MAST | Power telescoping antenna mast |
| Radio (2) | Cisco IW3702 Radio |
| Antenna (2) | Communications Antenna |
| Camera | Site Camera |

3.2 Trailer Construction and Frame

| Component | Specification |
|---|---|
| Frame Construction | All tube construction |
| Axle Spacing | 5" spread axle, standard ground clearance |

| Component | Specification |
|---|---|
| Axle | 5,200 lb torsion with EZ Lube hubs, electric brakes |
| Coupler | A-frame, 2-5/16", 10,000 lb capacity |
| Tongue Jack | Side wind, drop leg, 7,000 lb |
| Stabilizer Jacks | Scissor type, 24", 5,000 lb |
| Frame Protection | Bogey wheels |

3.2.1 Trailer Floor and Roof Structure

| Component | Specification |
|---|---|
| Floor Cross Members | 16" O/C, 8.5'W, aluminum |
| Roof Cross Members | 16" O/C, 1" x 3", 8.5'W, aluminum |
| Floor Design | Flat |
| Front Design | Flat, aluminum, 8.5'W |
| Interior Wheel Box | Smooth aluminum, spread axle, tandem |

3.2.2 Trailer Interior Configuration

| Component | Specification |
|---|---|
| Interior Height | 7.0' |
| Interior Ceiling | Screwless aluminum |
| Interior Walls | Screwless aluminum over 3/8" plywood (6.5'–8.0' range) |
| Flooring | TPO gray coin |
| Ceiling Insulation | Fiberglass batten, R-11 |
| Wall Insulation | Closed cell, R-13 (6.5'–8.0' range) |

3.2.3 Exterior Features

| Component | Specification |
|---|---|
| Tongue Cover | ATP |
| Exterior Aluminum Thickness | 0.030 (6.5'–8.0' range) |
| Fenderettes | Aluminum, polished |
| Gravel Guard | ATP, 24" with J-rail |
| Roof | One-piece aluminum |

| Component | Specification |
|---|---|
| Front Trim | Cast corners, polished; top radius, stainless steel; verticals, stainless steel |
| Rear Vertical Trim | Color matched |
| Rear Header Trim | Color matched |
| Upper Rub Rail | Aluminum, 4" |
| Lower Rub Rail | Aluminum, 4" |
| DOT Reflectors | Installed |

3.2.4 Doors and Access

| Component | Specification |
|---|---|
| Entrance Door | 405 Series, 32" x 78", flush lock |
| Entrance Door Latch | Bar lock, offset, aluminum |
| Cam Bar/Bar Lock Hasp | Stainless steel (for ramp door) |
| Step | Slide in/out aluminum, 32" |
| Baggage Door | 405 Series, 46" x 22", baggage latch |
| Fuel Door | Cast aluminum, lockable |

3.2.5 Ventilation

| Component | Specification |
|---|---|
| Vent System | Two-way, Salem |
| Roof Vent | Manual, MaxxAir Mini |

3.2.6 Electrical System

| Component | Specification |
|---|---|
| Truck Plug | 7-way, bumper pull |
| Breaker Box | 50 amp, 120V only |
| Converter | 60 amp, 12V |
| Fuse Panel | Inteli-Power unit |
| Power Inlet | Motorbase 50A with 25' shore cord, black |
| Transfer Switch | Automatic, 50A |
| Battery | 100AH lithium, basic |
| Power Cut-off Switch | Manual, 12V |

3.2.7 Interior and Exterior Lighting

| Component | Specification |
|---|---|
| Lower Amber Clearance Lights | LED, 12V |
| Upper Amber Clearance Lights | LED, 12V |
| Lower Red Clearance Lights | LED, 12V |
| Upper Red Clearance Lights | LED, 12V |
| Taillights | Slimline LED, 12V, red |
| License Plate Light | 12V |
| Scene Lights | LED high output, 12V, non-recessed, 14" x 2.5", black bezel |
| Loading Lights | LED, 12V, exterior |
| Rectangular Light | LED, 14", 12V, surface mount |

3.2.8 Switches and Receptacles

| Component | Specification |
|---|---|
| Interior Receptacles | 120V, 15A, black |
| Exterior Receptacles | 120V, 15A, GFI protected, black |
| Wall Switch (Scene) | On/off, 12V, black |
| Wall Switch (Loading) | On/off, 12V, black |
| Wall Switch (Auxiliary) | On/off, 12V, black |
| Awning Switch | 12V |
| 3-Way Wall Switch | 12V, black |

3.2.9 Climate Control

| Component | Specification |
|---|---|
| Air Conditioner | 15,000 BTU, low profile, 10.5" height, black, with heat pump |
| A/C Easy Start | Included |

3.2.10 Power Generation

| Component | Specification |
|---|---|
| Generator | NPS 6000K Yamaha with 24-gallon fuel tank |
| Generator Compartment | Tongue mounted, ATP |

3.2.11 Wall Structure (Additional)

| Component | Specification |
|---|---|
| Wall Cross Members (CS) | 16" O/C, 2" x 2", 7.0'H, aluminum |
| Wall Cross Members (RS) | 16" O/C, 2" x 2", 7.0'H, aluminum |

3.2.12 Mast Preparation

| Component | Specification |
| --- | --- |
| Mast Backer | Aluminum |

4.0 QUALITY ASSURANCE
All components shall be covered by a full one-year manufacturer's warranty.

5.0 CONTRACTOR SERVICES
The contractor shall provide:

- Installation of all equipment
- Operator training

6.0 DELIVERY
Delivery Address:
U.S. Army Aberdeen Test Center
6850 Lanyard Road, Building 358
Aberdeen Proving Ground, MD 21005-5059
Point of Contact:
Ben Gallardy
Email: benjamin.c.gallardy.civ@army.mil
Telephone: (410) 278-5603

7.0 NOTES

- All electrical components shall operate on 12V DC unless otherwise specified as 120V AC
- Trailer shall be suitable for continuous operation in all weather conditions
- Equipment shall be Commercial Off-The-Shelf (COTS) or non-developmental items where possible