

INVITATION FOR BID FOR

Pennsylvania Emergency Management Agency
2605 Interstate Drive
Harrisburg, PA 17110

ISSUING OFFICE

PENNSYLVANIA EMERGENCY MANAGEMENT AGENCY

IFB NUMBER

6100036821

DATE OF ISSUANCE

January 5, 2016

CALENDAR OF EVENTS

The Commonwealth will make every effort to adhere to the following schedule:

Activity	Responsibility	Date
Solicitation Title: MOBILE LAB AND COMMAND UNIT	Issuing Office	01/05/2016
Solicitation Number: 6100036821		
Issuing Agency: Pennsylvania Emergency Management Agency 2605 Interstate Drive Harrisburg, PA 17110		
Contracting Officer: Stephanie Fisher (717) 651-2189 stefisher@pa.gov		
Deadline to submit questions via email to Agency lead: Stephanie Fisher (stefisher@pa.gov) with the subject line "IFB 6100036821 Question"	Bidders	01/12/2016
Answers to potential bidder questions posted to the eMarketplace website (www.emarketplace.pa.gov) no later than this date.	Issuing Office	01/19/2016
Please monitor the eMarketplace website for all communications regarding this IFB.	Bidders	On going
Bids must be received by the Issuing Office at: PASupplierPortal website (http://www.pasupplierportal.state.pa.us) no later than this date."	Bidders	01/26/2016

PART I

GENERAL INFORMATION

Purpose

This Invitation for Bid (IFB) provides to those interested in submitting bids for the subject procurement (Bidders) sufficient information to enable them to prepare and submit bids for the Pennsylvania Emergency Management Agency for a Mobile Lab and Command Unit.

Issuing Office

The Pennsylvania Emergency Management Agency (Issuing Office) has issued this IFB. The sole point of contact in the Commonwealth for this IFB is Stephanie Fisher stefisher@pa.gov, 2605 Interstate Drive, Harrisburg, PA 17110, the Issuing Officer for this IFB. Please refer all inquiries to the Issuing Officer.

Problem Statement

The purpose of this IFB is to supply a Mobile Lab and Command Unit per the specifications.

Questions and Answers

If a Bidder has any questions regarding this IFB, the Bidder must submit the questions by email (with the subject line "IFB 6100036821 Question") to the email address specified in the Calendar of Events. If the Bidder has questions, they must be submitted via email no later than the date and time specified in the Calendar of Events. The Bidder shall not attempt to contact the Issuing Officer by any other means. The Issuing Officer will post the answers to the e-Marketplace website. A Bidder who submits a question *after* the deadline date for receipt of questions indicated on the Calendar of Events assumes the risk that its bid will not be responsive or competitive because the Commonwealth is not able to respond before the bid receipt date or in sufficient time for the Bidder to prepare a responsive or competitive bid. When submitted after the deadline date for receipt of questions indicated on the Calendar of Events, the Issuing Officer *may* respond to questions of an administrative nature by directing the questioning Bidder to specific provisions in the IFB. To the extent that the Issuing Office decides to respond to a non-administrative question *after* the deadline date for receipt of questions indicated on the Calendar of Events, the answer will be provided to all Bidders through an addendum.

All questions and responses as posted on the e-Marketplace website are considered as an addendum to, and part of, this IFB. Each Bidder shall be responsible to monitor the eMarketplace website for new or revised IFB information. The Issuing Office shall not be bound by any verbal information nor shall it be bound by any written information that is not either contained within the IFB or formally issued as an addendum by the Issuing Office. The Issuing Office does not consider questions to be a protest of the specifications or of the solicitation.

Addenda to IFB

If the Issuing Office deems it necessary to revise any part of this IFB before the due date, the Issuing Office will post an addendum to the e-Marketplace website. Answers to the questions asked during the questions and answer period will also be posted to the eMarketplace website as an addendum to the IFB.

Electronic Version of IFB

This IFB is being made available by electronic means. The Bidder acknowledges and accepts full responsibility to insure that no changes are made to the IFB. In the event of a conflict between a version of the IFB in the Bidder's possession and the Issuing Office's version of the IFB, the Issuing Office's version shall govern.

Response Date

A bidder's electronic bid must be submitted via the PASupplierPortal website on or before the due date specified in the Calendar of Events. Any bid submitted to the Issuing Office in hardcopy format will be rejected.

Incurring Costs

The Issuing Office is not liable for any costs the Bidder incurs in preparation and submission of its bid, in participating in the IFB process or in anticipation of award of a contract.

Restriction of Contact

From the issue date of this IFB until the Issuing Office selects a bid for award, the Issuing Officer is the sole point of contact concerning this IFB. Any violation of this condition may be cause for the Issuing Office to reject the offending bidders bid. If the Issuing Office later discovers that the bidder has engaged in any violations of this condition, the Issuing Office may reject the offending bidders bid or rescind its contract award. Bidders must agree not to distribute any part of their bids beyond the Issuing Office. Any bidder who shares information contained in his bid with other Commonwealth personnel and/or competing bidder personnel may be disqualified.

Prime Contractor Responsibilities

The Contractor will be required to assume responsibility for all services offered in its bid whether it produces them itself or by subcontract. The Issuing Office and Project Manager will consider the Contractor to be the sole point of contact with regard to contractual and purchase order matters.

Rejection Of Bid

The Issuing Office reserves the right, in its sole and complete discretion, to reject any bid received in response to this IFB.

Term

The contract resulting from this IFB will commence on the effective date, as defined in the Terms and Conditions and will extend for the duration of the project. No work may begin or be reimbursed prior to issuance of a purchase order. Final payment will not be made until all work has been successfully completed.

Terms and Conditions

The requirements and terms and conditions shall govern the contract issued as a result of this IFB.

REQUIREMENTS & SPECIFICATIONS

Requirements

Vendor Requirements and Standards

All equipment shall be new and not used, refurbished, and/or overhauled. The vendor shall ensure that all work, installations, and necessary documentation conform to the requirements of the National Electrical Code and the National Fire Protection Association publication NFPA-110.

Production and Delivery Timeline

Awarded vendor shall provide a detailed timeline that includes dates for production, training, delivery and acceptance.

Specifications

CHASSIS/BODY DIMENSIONS:

- Wheelbase of chassis: 138"
- Overall length of apparatus, including rear step: 21'-0"*
- Overall apparatus width, rub rail to rub rail: 96"
- Overall height of apparatus (loaded): 10'-7"*
- Interior walkway height raw body: 78"
- Interior walkway height finished: 77"*
- Interior walkway length: 12'-0"*
- Interior raw body width: 93"*
- Interior finished body width: 88"*

* Estimated measurement dependent on body builder, chassis components, axles, tires, frame, suspension, and roof-mounted equipment.

CHASSIS:

One 2016 FORD E-450 Cutaway Base SD 158" WB DRW

- 5.4L EFI FFV Triton V8. GAS (E-85 Flex Fuel capable)
- 158" WB, DRW
- 14,000 GVWR
- 4x2 Rear wheel drive
- Hydraulic Brakes: Power, 4-Wheel disc, 4 -wheel anti-lock braking system.
- 55 Gallon fuel tank capacity (gasoline)
- Transmission: Electronic 5-speed Automatic with overdrive, includes tow-haul.
- Hydraulic Power steering
- Analog instrument display
- 2 sets of keys for chassis included
- Fresh air heater & defroster – cab
- Driver and passenger manual black convex spotter folding manual extendable trailer outside mirrors – Note: heated mirrors are not an option of this vehicle.
- Rubber/vinyl flooring
- Variable intermittent front windshield wipers
- Radio: AM/FM Stereo/Digital Clock/Auxiliary audio input
- Overhead Cab Lighting
- Color: Black

One Shrink chassis from 158" wheelbase to 138" wheelbase to accommodate 12' body.

One DOT triangle reflector kit with three (3) triangles.

One Stainless steel wheel liner with braided stainless steel valve stem extenders.

BODY:

- Load space area shall be 78" high x 93" wide x 12' long custom dry van body with the following:
- Aerocap bulkhead unit with sliding door access to cab.
- Duraplate sidewalls.
- Right hand & left hand interior sidewall hat posts.
- Twin 25"Wx68"H swing rear doors with Kason 168 heavy duty slamlock hardware and 12"x18" window in upper section of each door.
- Grab handles at rear (2).
- Aluminum roof with roof beams 12" on center.
- 1-1/8" tongue & groove plywood floor.
- 10" gripstrut rear bumper.
- LED clearance, stop, turn, tail, and reverse lights.
- Compartments: - (2) right hand horizontal compartment doors - (1) right hand front vertical compartment door - (1) right hand rear vertical compartment door with two adjustable shelves - Drip rail over side doors
- Central power locking system for right hand compartments.
- Color to be Black. Basic Body warranty is 5 years or 100,000 miles. Body components manufactures or installed by Utilimaster is 12 months, unlimited miles.

One Permanent labels installed on the interior rear doors illustrating handle rotation direction.

Back-up alarm.

Two sets of keys for all locking storage spaces included. (2 sets for chassis included in chassis section).

PAINT AND GRAPHICS:

Body color shall be black.

Custom computer-generated reflective vinyl graphics per customer specifications. All lettering shall be of gold single color (color/style ~ to be determined).

Includes:

- One (1) badge/shield on driver door and passenger door
- Two line writing on each side of vehicle (40 characters)
- Two (2) smaller badges/shields on the two back/rear doors
- All graphics will be reflective
- Back bumper to have gold reflective chevron striping on it. Customer to supply all artwork required to produce shield.

PATRIOT ONYX INTERIOR:

- Wall Covering: #66 Silver Smooth FRP
- Ceiling Fabric: 810 Misty Gray
- Floor Covering: Spray in Line-X Bedliner
- Office Chairs: Black
- Cabinets: #EBT-2-2002 Black Powder Coated Aluminum
- Counters and Tables: #4820-60 Carbon-EV Note: Manufacturer reserves the right to substitute equivalent materials.

WALLS, CEILING AND FLOOR:

Insulate walls with fiberglass, 1" thick minimum, secured in place with spray on adhesive. Cover interior body side posts with plywood sub wall.

Cover sub wall with smooth finish *Kemlite* 0.075" fiberglass reinforced plastic (FRP) lining.

Build out interior over compartment sides with FRP.

Install 1.5" wood furring strips on interior body side posts and 1/2" wood furring strips on interior roof supports.

Includes two (2) 10" high channels over each wall beam, upper to be 4" from the top of the wall beam and lower

approximately 62" from the top of the wall beam. (Required to provide space for the installation of conduit and electrical boxes.)

Insulate ceiling with fiberglass, 1" thick minimum, secured in place with spray on adhesive. Cover interior roof supports with plywood.

Cover sub-ceiling with ribbed loop pile fabric with 100% High UV BCF Olefin Fiber, All Weather, Non-Skid Marine Backing. Color to be 810 Misty Grey

Spray in Line-X bedliner on floor of body.

GALLEY AND LAVATORY:

One *Norcold* model NR751BB (or current model) 12 / 24 VDC / 120VAC refrigerator with the following features:

- 2.7 cu. ft. capacity.
- Freezer shelf for ice cube tray.
- Two door bins; lower bin holds 2-liter containers.
- Integrated door latch.

SEATING:

Two Alero Task swivel chairs IN48CFA10B black (or current model) with mid back, five caster spider base, adjustable height and no armrests. Secured in place for transport.

CABINETS:

Custom fabricated aluminum cabinets. Cabinet specifications:

- Base cabinets constructed of 0.080" powder coated aluminum with anodized aluminum frames.
 - Base cabinet doors are double shell, formed from a single sheet of 0.080" aluminum, with a 0.040" aluminum door back attached.
 - Overhead cabinets constructed of 0.064" powder coated aluminum with anodized aluminum frames.
 - Overhead cabinet doors are double shell, formed from a single sheet of 0.064" aluminum, with a 0.040" aluminum door back attached.
 - Overhead cabinet doors swing up on a full-length aluminum hinge, and are held open with a locking door stay.
 - Overhead cabinets to have one adjustable shelf per door (24" high and taller cabinets only) - locked in place to the selected height. Shelves are formed from a single sheet of 0.064" mill finish aluminum, with 1 1/8" hemmed edges.
- Six under cabinet lights, E16 LED with switch.

Five key locks on overhead cabinet doors.

Closet shelves shall be infinitely adjustable using formed and plated mini B-line track and hardware.

Four Aluminum box pan shelves.

Four countertops shall be covered in 0.040" *Wilsonart* laminate. All exposed edges shall be covered with heavy duty flexible PVC T-molding.

Two custom fabricated aluminum framed dry erase marker board with pin strip. Approximately 10"x12".

Generator start/stop panel, 120Vac power panel, 12Vdc power panel, shall be located in power control panel ~~located as shown on drawing.~~

HVAC SYSTEM:

One *Fan-tastic Vent* model 4000 R (or current model) 3-speed reversible 12" power roof ventilator.

One Coleman Mach 8 series low profile air conditioner. Includes:

- 13,500 nominal BTU air conditioner with condensate pump.
- Ceiling Assembly with 6,000 BTU heat strip

One Roof-vent rain cover Maxxair translucent white.

120/240VAC ELECTRICAL SYSTEM:

One Onan Commercial QG 5500 5.5kW 120 volt AC generator HGJAE-2131 (or current model) mounted in custom fabricated all aluminum compartment. Product features:

- Sound rating at 10 ft (3 m) full load: 66 dB(A)
- Cummins Onan OHV engine

- Overspeed/underspeed protection
- Fuel consumption is as follows: 50% load = 0.60 GPH, full load = 0.95 GPH* Generator must be Commercial. RV generators in a commercial application only get half of the manufacturer's warranty.

Compartment shall be constructed to the following specifications and insulated:

- Compartment shall be constructed from 0.187" aluminum with all welded seams.
- Compartment shall have 0.125" aluminum 2" box pan doors and 0.125" aluminum frames.
- Door frames shall be riveted to the body and welded to the compartments.
- Doors shall have stainless steel hinges attached to the doors and door frames with stainless machine screws.
- Doors shall have slam latches and flush mounted handles.
- Doors shall have 0.125" perforated aluminum panels on interior surfaces.
- Doors shall be held open in a 90° position with gas charged lift/support cylinders.
- Doors shall be sealed with industrial grade neoprene gasket.
- Compartment shall have internal lighting when door is open.

One Control Panel with switch & hour meter 300-5332 mounted on interior of vehicle at power control panel. Also includes:

- 338-3489-02 Remote Control plug & wire harness-30ft
- 300-4946 Pigtail Remote Control plug & wire harness (gen end)
- 155-3841-02 26" Tailpipe kit

One Automatic transfer switch for switching one A/C unit between shore power and generator power.

Two 120Vac control panels with UL listed magnetic/hydraulic circuit breakers and amber LED indicators mounted on interior of vehicle at power control panel.

One *Kussmaul* Auto Eject 20, 20A-120Vac shore power inlet with 25-ft. 20A-120Vac shore power cord.

Five Specification grade 20A-125Vac duplex receptacle. Receptacle is not dedicated to any installed equipment.

Three Specification grade 20A-125Vac exterior GFCI duplex receptacles with weatherproof PVC cover. GFCI receptacles will be wired in pairs to 20A circuit breakers located in the 120Vac electrical load distribution center.

One Power Strip EPS-3099BL (or current model) 20 Amp/330V, 9' cord.

- 9-outlet Power Strip with surge protection
- Electrical Ratings: 125V/15Amp/1875W
- 15Amp Resettable Circuit Breaker
- 3 ft (0.91m) Durable Metal Housing

Two Whelen Pioneer Plus Series LED light on Truck mounted Tripod

- PFP1AP1B Pioneer Plus Floodlight, 75 Watts, Black, 120 VAC
- Tri-pod, 50 in. body, 30 in. legs Length, Inner coil cord, Bottom wire exit, With NEMA L5-20 Plug Cable Option (twist lock)
- Integrated power switch
- Truck mount cradle

Two 50' 12/3 Extenda-Lite yellow extension cord with twist-lock plugs to extend the tripod light away from the truck.

120/240VAC WIRING REQUIREMENTS:

- All 120/240Vac main wiring shall be stranded THHN wire and run in non-metallic *Carlton* Carflex liquid tight conduit.
- All electrical circuits and appliances shall conform to applicable national electrical codes.

12VDC ELECTRICAL SYSTEM:

One Progressive Dynamics PD2160 60 amp electronic converter/charger. Product features:

- Charges up to three banks of batteries at the same time.
- UL listed for safety.
- Manual reset circuit breaker.
- Reverse battery protection.
- Electronic current limiting.
- High voltage protection.

Two Interstate 6V Deep Cycle Batteries GC2-XHD-UTL and all associated wiring mounted in rear curbside exterior compartment.

One Dual Auxiliary Battery Disconnect System # (or current model). Enables auxiliary battery disconnect to be activated from cab or load space area.

One battery combiner. Automatically combines the battery banks during charging and isolates them when there is no charging sensed on either bank. A three position control switch allows an operator to manually combine or separate the batteries in order to jump start an engine or troubleshoot a failure.

One 12Vdc control panel with seven (7) UL listed magnetic/hydraulic circuit breakers with red LED indicators, 12Vdc digital voltmeter.

Three ceiling lights shall be, Orion 6" LED, neutral white with polished bezel.

Three lights, Orion 6" LED, neutral white / red with polished bezel.

Four Whelen 600 Series Super-LED high intensity 8-32° gradient Opti-Scenelight 6SC0ENZR (or current model) Includes 6EFLANGE: 600 Series, chrome plated flange. One switch to operate each side of vehicle.

One Whelen SA315P (or current model) high performance, multi-port 100 watt speaker with behind grill mount SAK32.

One Whelen 295HFS A5 siren with 9 low current lighting control switches.

12VDC EMERGENCY LIGHTING:

One Star Signal ULB28-RRBB Amber Phantom® Lineum X™ Lightbar. Universal mount. Features:

- Dual-Color interior undercover bar.
- Extremely thin profile, for interior applications only
- Dual color modules.
- Red/Blue warning lights.
- Amber directional traffic lights.

Four Whelen ION series Super-LED universal light, Split Red/Blue, Black Housing, clear lens, model WIONJ (or current model).

Locations:

- Two (2) in grill
- One (1) curb side front fender
- One (1) street side front fender

Six Whelen 600 series Linear Super-LED lighthead with internal flasher, red/blue LED's with clear outer lens, model 60BR6FCR (or current model). Includes chrome flange 6EFLANGE (or current model).

Locations:

- Two (2) street side high
- Two (2) curb side high
- Two (2) rear high

12VDC WIRING REQUIREMENTS:

- 2-gauge minimum copper stranded battery cable shall be used for 12Vdc main supply lines. All cable runs shall be full length, no splices. All cable terminals shall be staked and soldered. All cable shall be enclosed in convoluted polyethylene tubing and the ends of the cable shall be sealed with color-coded shrink-wrap identifying the function of the cable.
- All added electrical circuits shall be protected from over-current by resettable circuit breakers appropriately rated for the load. Only circuit breakers shall be used in the installation of added electrical wiring (plug type fuses are unacceptable).
- Circuit breaker functions shall be identified by engraved or printed labels.
- All added wiring for load runs of AWG 10, 12, 14, and 18, shall conform to MIL-W-16878/2 and/or UL1007/1569”
- All added wiring for load runs of AWG 8, shall conform to MIL-W-16878/3 and/or UL1028
- Wire terminals for added circuits must conform to MIL-T-7928. Terminals shall be insulated, insulation grip, TYPE II, CLASS 2 and shall be crimped with tooling recommended by the terminal manufacturer.
- All wiring shall be numbered or lettered on 6" centers minimum.

- Wiring shall be protected from chafing and abrasion with convoluted polyethylene tubing (wire loom) as required.
- Where wire passes through sheet metal, bulkheads and structural supports, plastic grommets shall be used to protect both wiring and wire looms.
- All wire bundles shall be tied with trimmed nylon ties.
- Extreme care shall be exercised to provide for easy serviceability of the system in future years.
- Extreme care must be taken in the installation to avoid the engine manifold, engine exhaust, and muffler, which could expose the wiring to severe overheating during long periods of operation. Proper insulation and heat deflection panels must be installed in such areas.
- A high-current 12Vdc system wiring schematic shall be provided.
- These are the minimum acceptable 12Vdc wiring requirements.

RADIOS:

Four Prewire and make installation provisions for communications radio. Installation includes:

- NMO-style base on the roof or antenna raceway, as applicable.
- LMR195 antenna cable routed to radio transceiver location in *Carlton* Carflex ENT conduit.
- 12Vdc power routed to radio transceiver location.

MISCELLANEOUS ELECTRONICS:

Automotive alarm for cab and rear body doors. Flashing parking lights and siren.

Six Streamlight Strion LED HL rechargeable flashlight.

One Streamlight Strion 120V AC 6-unit Charger.

AWNING:

One *Dometic* Weather Pro Awning 12' cadet grey acrylic fabric (other colors available on request) electric awning with the following features:

- Solid-state sensor automatically closes awning after detecting sustained winds
- Exclusive Knee-Action Design prevents damage from sudden wind gusts
- Heavy duty motor is fully contained in the roller tube, self-locks awning in travel position
- Unique spring-arm mechanism automatically dumps accumulating rain water
- Black hardware and Case

MISCELLANEOUS ITEMS:

One 5 pound dry chemical fire extinguishers. Mount behind driver seat.

One *First Alert* 9-volt combination Carbon Monoxide and Smoke alarm.

MANUALS:

One Complete manual set, including the following:

- As-built specifications with interior and exterior drawings as used for production of the vehicle.
- Chassis and body owner's manuals.
- 12Vdc and 120Vac legends showing wire gauge, color, number and function.
- 12Vdc high current wiring diagram illustrating the battery system, isolators, power converters, alternator, disconnect switches and control panels.
- Roof top antenna placement drawing and legend identifying antenna placements and termination points.
- Alarm system zones legend.
- Warranty and Return Authorization procedures.
- Chassis and generator maintenance and service logs.
- Battery maintenance information.
- All individual component manuals and warranty registration cards as provided by component manufacturers. Customer is responsible for completing warranty cards and mailing them to manufacturers.

MISCELLANEOUS:

At time of delivery to customers facility a *manufacturer* representative will provide up to Four (4) hours of orientation on *manufacturer* provided systems, as applicable:

- Generator start up and shut down procedure
- AC and DC electrical systems operation• HVAC systems operation
- Alarm operation
- Awning operation

Project scope does not include certain tasks or costs that are the responsibility of the customer unless clearly specified as manufacturer supplied. These items include, but are not limited to:

- Radio and telephone system programming.
- Activation and service fees for cellular telephones, satellite telephones, satellite TV, satellite internet access.
- Loading and configuring computer software.