

BID FORM

**MISSOURI DEPARTMENT OF TRANSPORTATION  
GENERAL SERVICES - PROCUREMENT  
PO Box 270  
Jefferson City, MO 65102**

REQUEST NO.	3-150407RW
DATE	March 26, 2015

SEALED BIDS, SUBJECT TO THE ATTACHED CONDITIONS WILL BE RECEIVED AT THIS OFFICE UNTIL

**2:00 pm., Central Standard Time, April 7, 2015**

AND THEN PUBLICLY OPENED AND READ FOR FURNISHING THE FOLLOWING SUPPLIES OR SERVICES.

**BIDS TO BE BASED F.O.B. MISSOURI DEPARTMENT OF TRANSPORTATION**

Submit net bid as cash discount stipulations will not be considered

830 MoDOT Drive, Jefferson City, MO 65109

THE BIDDER MUST SIGN AND RETURN BEFORE DATE AND TIME SET FOR OPENING.

**BUYER:** Robin Warren

**BUYER TELEPHONE:** 573-526-7929

**BUYER EMAIL:**

[Robin.Warren@modot.mo.gov](mailto:Robin.Warren@modot.mo.gov)

**EQUIPMENT**

**Underbridge Inspection Unit**

To establish a contract to furnish an "Underbridge Inspection Unit" in accordance with the pages.

(SEE ATTACHED FOR TERMS, CONDITIONS, AND INSTRUCTIONS)

*In compliance with the above Request For Bid, and subject to all conditions thereof, the undersigned bidder agrees to furnish and deliver any or all the items on which prices were bid within the timeframe specified herein, after receipt of formal purchase order.*

**Date:** \_\_\_\_\_

**Telephone No.:** \_\_\_\_\_

**Fax No.:** \_\_\_\_\_

**Email Address:** \_\_\_\_\_

**Firm Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**By (Signature):** \_\_\_\_\_

**Type/Print Name** \_\_\_\_\_

**Is your firm MBE certified?**  Yes  No

**Title:** \_\_\_\_\_  
**Is your firm WBE certified?**  Yes  No

## 1. INTRODUCTION AND GENERAL INFORMATION

### 1.1 Introduction:

This Request for Bid (RFB) seeks bids from qualified organizations to provide an underbridge inspection unit (hereinafter referred to as unit) that complies with all the requirements identified in Section 2 SCOPE OF WORK of this RFB for the Missouri Department of Transportation (MoDOT). Each bid must be returned in a sealed envelope per Section 3 BID SUBMISSION. **Bids must be returned no later than 2:00 p.m., Central Standard Time, April 7, 2015.**

#### **RFB COORDINATOR:**

**Robin Warren**  
**Sr. General Services Specialist**

**Phone:** 573-526-7929  
**E-mail:** [Robin.Warren@modot.mo.gov](mailto:Robin.Warren@modot.mo.gov)

## 2. SCOPE OF WORK

### 2.1 General Requirements:

- 2.1.1 The Bidder shall provide unit in accordance with the provisions and requirements stated herein and at the sole satisfaction of MoDOT.
- 2.1.2 Unless otherwise specified herein, the Bidder shall furnish all material, labor, facilities, equipment, and supplies necessary to provide the unit required herein.

### 2.2 Specification Requirements:

It shall be the Bidder's responsibility to meet all requirements as indicated in the attached specifications, along with any other provisions outlined in this solicitation document. *See Attachment A.*

### 2.3 Delivery Requirements:

- 2.3.1 Unless otherwise specified on the purchase order, suppliers shall give at least 24 hours advance notice of delivery. Delivery will only be received between the hours of 8:00 a.m. to 3:00 p.m., Monday through Friday.
- 2.3.2 Unit specified herein shall be delivered to the following MoDOT location:

830 MoDOT Drive  
Jefferson City, Missouri 65102

### 2.4 Invoicing and Payment Requirements:

- 2.4.1 The Bidder shall submit an itemized invoice upon completion of delivery of unit.
- 2.4.2 A payment of 40% of cost of the unit, not exceeding \$150,000.00, will be made at the time of issuance of purchase order. The remaining balance to be paid after the unit has been delivered and inspected to ensure it meets specifications.
- 2.4.3 Each invoice shall be itemized in accordance with items listed on the purchase order and/or contract. The statewide financial management system has been designed to capture certain receipt and payment information. Therefore, each invoice submitted must reference the purchase order number and must be itemized in accordance with items listed on the purchase order. Failure to comply with this requirement may delay processing of invoices for payment.
- 2.4.4 The Bidder shall understand and agree MoDOT reserves the right to make contract payments to the Bidder through electronic funds transfer (EFT). Therefore, prior to any payments becoming due under the contract, the contractor must return a completed state Vendor Input ACH/EFT Application, which is downloadable from the Vendor Services Portal at: <https://www.vendorservices.mo.gov/vendorservices/Portal/Default.aspx>. Each Bidder invoice must be on the Bidder's original descriptive business invoice form and must contain a unique invoice number. The invoice number will be listed on the state's Vendor Payment Website to enable the Bidder to properly apply state payments to invoices. The contractor must comply with all other invoicing requirements stated in the RFB.
- 2.4.5 The Bidder shall be paid in accordance with the firm, fixed prices stated on the pricing page of this document after completion of deliverables specified herein and acceptance by MoDOT.
- 2.4.6 Other than the payment specified above, no other payments or reimbursements shall be made to the Bidder for any reason whatsoever.

2.4.7 MoDOT assumes no obligation for equipment, supplies, and/or services shipped or provided in excess of the quantity ordered. Any unauthorized quantity is subject to the MoDOT's rejection and shall be returned at the Bidder's expense.

2.4.8 MoDOT is exempt from paying Missouri Sales Tax, Missouri Use Tax and Federal Excise Tax.

## **2.5 Other Contractual Requirements:**

2.5.1 Contract Period - The contract shall commence from the date of award notification for up to one year.

2.5.2 Inspection and Acceptance - MoDOT reserves the right to inspect the unit at the point of manufacture, intermediate point, or at a destination which shall be at the discretion of MoDOT.

- a. No unit received by MoDOT pursuant to a contract shall be deemed accepted until MoDOT has had reasonable opportunity to inspect said unit.
- b. Unit which does not comply with the specifications and/or requirements or which is otherwise unacceptable or defective may be rejected. In addition, unit which is discovered to be defective or which does not conform to any warranty of the Contractor upon inspection (or at any later time if the defects contained were not reasonably ascertainable upon the initial inspection) may be rejected.
- c. MoDOT reserves the right to return any such rejected unit at the Bidder's expense for full credit or replacement and to specify a reasonable date by which replacement must be received.
- d. MoDOT's right to reject any unacceptable unit shall not exclude any other legal, equitable or contractual remedies the MoDOT may have.

2.5.3 Training:

- a. Training shall be included in the unit price and shall take place on MoDOT property or on MoDOT right of way near bridge. Any required classroom training should take place at 910 MoDOT Drive in the bridge shed conference room.
- b. A qualified service technician or mechanic shall conduct the training. Training will be supplied to operators and mechanics of equipment and will cover safe operation and routine/preventative maintenance.
- c. The Bidder shall supply training within one month of delivery and acceptance and shall supply all training materials.
- d. Training modules to be covered are electrical, chassis and power train (hydraulics if applicable) and warranty coverage shall be explained during each of these modules.
- e. A phone number for technical assistance during normal working hours from 8:00 a.m. to 4:00 p.m. shall be provided.

2.5.4 Warranty – A copy of standard warranty coverage information should be included with bid response. *See page 7 Warranty Coverage.*

2.5.5 Refurbishments - If refurbishments are available, the refurbishment(s) must be negotiated between the division and vendor. The vendor must be currently under contract with MoDOT. It will be the responsibility of the vendor to examine the condition of the equipment offered for refurbishment. The division must keep accurate records verifying the process.

2.5.6 Fuel - In accordance with RSMo 414.365, MoDOT must use fuel with at least the biodiesel content of B-20. (<http://www.moga.mo.gov/statutes/C400-499/4140000365.htm>) By submitting a response to this bid, Bidder agrees to comply with all the terms of your company's standard equipment warranties, except to the extent the equipment problems are determined to be attributed to MoDOT's use of B-20 fuel.



**4. PRICING PAGE**

4.1 The Bidder shall provide firm, fixed pricing below for the original contract period for providing the unit in accordance with the provisions and requirements of this RFB. All costs associated with providing the required unit shall be included in the prices stated below.

Item #	Description	Firm, Fixed Price
001	Underbridge Inspection Unit <i>Indicate Make _____ Model _____</i>	
002	Annual Safety Inspection at Jefferson City, MO	

List any additional vendor-recommended options relevant to this operation after option D below.  
Use additional sheets if necessary.

Option	Description	Firm, Fixed Price
A	Additional Training Modules (after initial training) at a cost of \$_____ per student with a _____ minimum class size	
B	Provisions to transport MoDOT employees, to include overnight expenses, to the factory for a pre-build conference and factory tour to approve the general construction and layout of the unit.	<i>cost per person</i>
C	Provisions to transport MoDOT employees, to include overnight expenses, to the factory for a pre-delivery inspection when unit is 60-70 percent complete to approve the general construction and layout of the unit.	<i>cost per person</i>
D	Extended Warranty	

4.2 **MSRP Discount:** Awarded vendor should submit a complete parts and options list with detailed pricing information in a hard copy or electronic format. Indicate below the percent (%) discount off Manufacturer's Suggested Retail Price (MSRP) for all options other than those priced on the Pricing Page.

*% Discount off MSRP for all Data Book or Pricing Guide Options - % Discount \_\_\_\_\_*

*Delivery will be made \_\_\_\_\_ days after receipt of order (ARO).*

**Company Name** \_\_\_\_\_

**Signature** \_\_\_\_\_



# VENDOR INFORMATION & PREFERENCE CERTIFICATION FORM

## Vendor Information

**All bidders must furnish ALL applicable information requested below**

<b>Vendor Name/Mailing Address:</b>  Email Address:	<b>Vendor Contact Information (including area codes):</b> Phone #: Cellular #: Fax #:									
<b>Printed Name of Responsible Officer or Employee:</b>	<b>Signature:</b>									
<b>For Corporations</b> - State in which incorporated:	<b>For Others</b> - State of domicile:									
If the address listed in the Vendor Name/Mailing Address block above is not located in the State of Missouri, list the address of Missouri offices or places of business:  <i>If additional space is required, please attach an additional sheet and identify it as <b><u>Addresses of Missouri Offices or Places of Business.</u></b></i>										
<b>M/WBE INFORMATION:</b> List all certified Minority or Women Business Enterprises ( <b><u>M/WBE</u></b> ) utilized in the fulfillment of this bid. Include <u>percentages</u> for subcontractors and identify the M/WBE certifying agency:  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%; text-align: center;"><u>M/WBE Name</u></th> <th style="width: 33%; text-align: center;"><u>Percentage of Contract</u></th> <th style="width: 33%; text-align: center;"><u>M/WBE Certifying Agency</u></th> </tr> </thead> <tbody> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table>		<u>M/WBE Name</u>	<u>Percentage of Contract</u>	<u>M/WBE Certifying Agency</u>	_____	_____	_____	_____	_____	_____
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_____	_____	_____								
_____	_____	_____								
<i>If additional space is required, please attach an additional sheet and identify it as <b><u>M/WBE Information</u></b></i>										

## Preference Certification

**All bidders must furnish ALL applicable information requested below**

<b><u>GOODS/PRODUCTS MANUFACTURED OR PRODUCED IN USA:</u></b> If any or all of the goods or products offered in the attached bid which the bidder proposes to supply to the MHTC are <b><u>not</u></b> manufactured or produced in the "United States", or imported in accordance with a qualifying treaty, law, agreement, or regulation, list below, by item or item number, the country other than the United States where each good or product is manufactured or produced.	
Item (or item number)	Location Where Item is Manufactured or Produced
<i>If additional space is required, please attach an additional sheet and identify it as <b><u>Location Products are Manufactured or Produced.</u></b></i>	
<b><u>MISSOURI SERVICE-DISABLED VETERAN BUSINESS:</u></b> Please complete the following if applicable. Additional information may be requested if preference is applicable. See below definitions for qualification criteria: <b>Service-Disabled Veteran</b> is defined as any individual who is disabled as certified by the appropriate federal agency responsible for the administration of veterans' affairs. <b>Service-Disabled Veteran Business</b> is defined as a business concern: <ol style="list-style-type: none"> <li>a. Not less than fifty-one (51) percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than fifty-one (51) percent of the stock of which is owned by one or more service-disabled veterans; and</li> <li>b. The management and daily business operations of which are controlled by one or more service-disabled veterans.</li> </ol>	
<u>Veteran Information</u>	<u>Business Information</u>
Service-Disabled Veteran's Name (Please Print)	Service-Disabled Veteran Business Name
Service-Disabled Veteran's Signature	Missouri Address of Service Disabled Veteran Business

## COOPERATIVE AGREEMENT NOTICE

The Department is interested in assisting Missouri governmental entities, etc. in purchasing equipment, various materials and supplies that meet the Highway and Transportation Department specifications.

Each bidder is asked to indicate below whether they would be willing to offer *underbridge inspection units* listed in the attached "Request for Bid" for sale to these local political entities at the same bid price offered to this Department.

It is understood the Department will not issue purchase orders, accept delivery nor make payment for these items ordered by any of these agencies. It is further understood the price is based on the *underbridge inspection units* meeting the Department specifications. Any added options, deletions, or extra freight costs would be negotiated between the local agency and the successful vendor.

Indicate below whether your company is willing to offer such cooperative purchasing for Missouri counties, cities or other political entities.

YES \_\_\_\_\_

NO \_\_\_\_\_

If the price varies throughout the state on Department bids because of different delivery destinations, please indicate the price f.o.b. your location that would be offered as described.

F.O.B. Location \_\_\_\_\_

Indicate the deadline date that orders will be accepted. \_\_\_\_\_

COMPANY NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

PHONE NUMBER \_\_\_\_\_

SIGNATURE \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

(Each vendor should complete the appropriate sections of their form and submit with their bid.)

# ATTACHMENT A

## Underbridge Inspection Unit Specifications

The following shall indicate minimum requirements, including all components, accessories and safety features considered standard or necessary to make a complete operating unit, whether identified herein or not. The underbridge inspection unit shall be a new current model.

### 1. General Provisions:

- 1.1 It is the intent and purpose of these specifications to describe a unit to provide underbridge inspection by making it possible to position two (2) workmen approximately 30' horizontally under a bridge to perform maintenance and inspection in areas under the bridge as directed in the performance section of these specifications. With the unit completely extended, the truck can be driven slowly forward or backward to provide continuous or overlapping areas of coverage. The vehicle must operate within an 8'-6" lane so that lane closures are kept to a minimum.
- 1.2 The underbridge inspection unit shall include a truck chassis, flatbed body, aerial device, and any necessary equipment, components, accessories or options required to furnish a complete unit ready for operation. The aerial unit shall be truck-mounted, hydraulic-powered with three (3) articulating boom sections, two (2) rotation turrets, and a maneuverable, minimum 450 pound capacity aluminum or fiberglass walk-in basket installed on a telescoping 4th boom. The construction and stability of the completed unit shall conform to current ANSI A92.8 standards for vehicle mounted bridge inspection and maintenance devices. Maximum gross vehicle weight shall not exceed 30,000 pounds.

### 2. Performance:

- 2.1 The underbridge inspection unit shall be capable of placing the inspector(s) in positions above, under and outside of the bridge described in these specifications, and in a manner such that the inspector can make physical contact with areas as indicated.

### 3. Pre-Delivery Service:

- 3.1 Truck and auxiliary engines will be checked and filled to the proper oil level.
- 3.2 Transmission will be checked and filled to proper oil level.
- 3.3 Hydraulic system oil reservoir will be checked and filled to proper oil level.

**4. Chassis:** New - Current Model

- 4.1 GVWR: Maximum of 40,000 pounds
- 4.2 Frame: Outer C Channel frame with full length reinforcement. Section modules, RBM, frame reinforcement, and chassis shall meet underbridge unit manufacturer's minimum requirements.
- 4.3 Transmission: Automatic, - locate shift control in dash or fastened to the dashboard.
- 4.4 PTO: The power take-off shall be transmission mounted power shift type, cab controlled, and shall have a ratio to provide optimum performance of the hydraulic pump operating upper structure components further described in the specs. Unit shall be equipped with a PTO engaged light.

**5. Engine:** The engine shall be equipped as recommended by the manufacturer including at least the following:

- 5.1 Engine shall be a diesel powered unit, rated at a minimum of 300 gross horsepower. Provide remote PTO throttle control capability for bridge inspection unit. Engine shall be set up with a 2 speed throttle.
- 5.2 Heavy duty air cleaner with air dryer
- 5.3 Oil filter and fuel filters as recommended by the engine manufacturer.
- 5.4 Horizontal muffler with vertical tailpipe (preferred) with bright shield to protect personnel from burns. Exhaust system shall not interfere with the operation of the body or underbridge inspection unit. Vertical muffler may be supplied, if approved by the body manufacturer.
- 5.5 Engine block heater
- 5.6 High temperature protection warning light with gauges for oil pressure and coolant temperature
- 5.7 Engine compression brake
- 5.8 Heavy duty radiator and coolant system
- 5.9 Electrical system shall include a minimum of three (3) 12 volt, 1,950 CCA, maintenance free batteries. Provide battery box with cover, mounted LH side on frame. Alternator shall provide a minimum of 160 amp capacity. Lights on cab and chassis shall be manufacturer standard. Lights on body shall be Truck Lite, or equal. Single air horn and back up warning device shall be provided. Unit shall have two (2) amber lens LED strobe lights mounted above cab height.

## **6. Cab:**

- 6.1 Cab shall be standard conventional, with tilting hood and fenders.
- 6.2 Driver's seat shall be a fully adjustable suspension bucket type and passenger seat shall be a bucket, non-suspension type
- 6.3 The following shall be provided as a minimum:
  - a. Insulated cab
  - b. Arm rests and door pulls
  - c. Windshield washer
  - d. 2-speed wipers
  - e. Dome light
  - f. Two (2) rectangular, collapsible mirrors with bolt on convex mirrors
  - g. Heater and defroster, heavy duty fresh air type
  - h. Fuel tank with steps, 70-80 gallon capacity, LH mounted under cab
  - i. Power steering
  - j. Instrumentation shall include all standards as a minimum.
  - k. Air conditioning
  - l. AM-FM radio
  - m. Body builder wiring, back of cab or under hood

## **7. Tires:**

- 7.1 Must meet minimum GVWR
- 7.2 Front: Tires and wheels to match axle capacity  
Rear: Tires and wheels to match axle capacity

## **8. Brake System:**

- 8.1 Brakes shall be air actuated. The air compressor shall have a minimum capacity of 13.2 CFM, with air dryer with automatic moisture drain.

## **9. Rust Proofing and Undercoating:**

- 9.1 Full undercoating shall be applied in a continuous and uniform coating, under deck body sheet metal except that drive shafts, drain holes, lubrication points, engine crank-case, heavy castings and suspension components shall be kept free of coating material. Chassis shall have standard factory undercoating.

## **10. Paint:**

- 10.1 Unit shall be painted to manufacturer's specification, but shall include as a minimum, a rust inhibitive primer and a finish coat. The complete paint film, to include primer and finish coat, shall have a minimum thickness of 2.5 mils.

10.2 Chassis and bridge inspection unit paint color shall be DuPont N2065-Yellow or Sikkens Akzo Nobel School Bus Yellow 4421

### **11. Safety Equipment:**

11.1 One (1) first aid kit and one (1) fire extinguisher

11.2 One (1) reflective triangle set stored in mountable box

11.3 LED strobe lights in rear of truck

11.4 Wig-wag headlights

### **12. Manuals:**

12.1 Two (2) sets of Operator's, Parts and Repair Manuals should be provided in CD format and one (1) in hard copy with delivered unit.

### **13. Deck Body:**

13.1 Body shall be constructed of diamond plate and finished with non-skid paint.

13.2 Body shall have an access step installed on the left of the deck. The step shall be constructed to be 15" to 18" from ground.

13.3 Two (2) under deck tool boxes shall be installed. Boxes shall be constructed of aluminum with drain holes. Doors shall be downward opening with cable stops and lock. Doors shall have seals for weatherproofing. Locks are to be keyed alike.

13.4 Unit shall have anti-sail flaps.

### **14. Underbridge Inspection Unit:**

Overall Dimensions:

- a. Overall stored length: 34' (maximum)
- b. Overall stored height: 12' (maximum)
- c. Overall stored width: 102"(maximum)

All components of the aerial device shall be stored inside the length and width of the flatbed body. When in operation, only 102" of the traffic shall be occupied.

Underbridge Inspection Aerial Device Components:

The following underbridge inspection aerial device assembly shall consist of the following minimum components:

- a. Pedestal and subframe

- b. Two (2) hydraulic rotation turrets
- c. Three (3) hydraulic articulating boom sections
- d. 450 lb. capacity aluminum or fiberglass inspection walk-in basket
- e. Auxiliary diesel engine and PTO power sources
- f. Hydraulic system
- g. Controls and safety system
- h. Truck stabilizers
- i. Communication system
- j. Accessories
- k. Labels
- l. Diesel engine driven electric generator mounted under deck with sufficient power to supply two (2) 20 amp, 110 volt outlets and two (2) permanently mounted 1500 watt (minimum) electric heaters in inspection basket.

**A. PEDESTAL & SUBFRAME:**

Both the pedestal and subframe shall be constructed of high strength steel and shall have sufficient strength to withstand all torsional stress imposed by the boom assemblies with the maximum rated load in the platform.

Pedestal shall be mounted behind the truck cab and welded to a subframe, which shall extend the full length of the chassis frame.

The subframe shall be fastened to the chassis frame with mounting plates and grade 8 bolts.

**B. ROTATION TURRETS:**

Turret No. 1:

The main turret shall be mounted on top of the pedestal and hinged to Boom No. 1. It shall rotate the booms off of both sides of the vehicle.

Turret No. 2:

The second turret shall be mounted at the end of Boom No. 1 and hinged to Boom No. 2. It shall rotate a minimum of 200° when all booms are deployed and unit is on an 8 degree side slope. Turret shall be leveled by a hydraulic cylinder located in Boom No. 1. No leveling rods are to be used so that maximum fence clearance can be obtained.

Bearing:

Each turret shall rotate on a heavy-duty shear ball type bearing protected against dirt and moisture, and provided with means for pressure lubrication.

Motor and Gear Box:

Rotation shall be powered by a reversible hydraulic orbital motor driving a locking gear box, which shall prevent free wheeling in case of hydraulic failure.

Counterweight:

A hydraulic sliding counterweight shall be installed under the deck, at the rear. It shall be capable of moving to each side, opposite the side the unit is deploying. Control shall be through a panel with screen located in the truck cab. The counterweight shall always stay within the confine of the body when operated. An interlock shall be provided to prevent the movement of the underbridge unit until the counterweight has been shifted.

**C. BOOMS:**

The underbridge inspection aerial device shall be equipped with three articulating, hydraulically operated booms. Two telescopic sections shall be provided and equipped with high wear capacity support pads. There shall be no exposed hose reels.

Boom No. 1:

The main boom shall be hinged to the mainframe pedestal turret and shall provide a minimum 7' side clearance, measured from the side edge of the truck.

Boom No. 2:

The second boom shall be attached to the end of Boom No. 1 and shall provide a minimum 15' vertical downward clearance, measured from bottom of Boom No. 2 to the top of Boom No. 3.

Boom No. 3:

The third boom shall be attached to the end of Boom No. 2 and shall include a telescoping boom section.

Boom No. 4 and Platform:

At the end of the telescoping Boom No. 3 shall be the platform, equipped with a hydraulic vertical extension so that the platform can be moved straight up. Once fully extended, a minimum 6' vertical reach shall be obtained.

Underbridge Reach:

The basket must be capable of reaching a minimum of 31' as measured from edge of bridge to outside of basket with Boom No. 4 in the vertical position.

Overhead Reach:

The basket must be capable of reaching 29' vertically with all booms above ground level.

Boom Swivel Pins:

Boom swivel pins shall be of high strength steel, turned, ground and polished or nickel plated. Bearings shall be of high strength material and self-lubricating.

Boom Cylinders:

Booms shall have full hydraulic powered cylinders. All cylinders shall be pilot operated, double-acting with integral safety holding valve.

Cylinder Swivel Pins:

Cylinder shall be attached to the booms with high strength steel pins, turned, ground and polished or nickel plated.

**D. 450 lb. CAPACITY ALUMINUM or FIBERGLASS PLATFORM:**

One aluminum or fiberglass 2-person platform with a minimum 450 lb. capacity shall be hinged at the end of the fourth boom and shall automatically be kept level at all times by a leveling system.

The platform shall include a hydraulic vertical extension.

Safety Belts and Accessories:

Attachments for safety belts shall be installed in the platform.

**E. POWER SOURCES:**

The primary source of power will be a transmission mounted pump on the truck.

The back-up source of power for operation of the underbridge inspection unit's hydraulic and electric systems shall be a diesel engine mounted on the truck bed at location specified by owner.

Pumps shall have capacity to perform two (2) or more unit movements simultaneously.

If an auxiliary engine is provided, it shall include the following:

1. 12-volt electrical system with keyed ignition, electric starter, and alternator.
2. Fuel connection to the truck fuel tank(s).
3. Diesel engine fuel filtration system.
4. Engine compartment cover which allows complete access to engine and hydraulic system components.

**F. HYDRAULIC SYSTEM:**

All movements of the underbridge inspection aerial device shall be made by hydraulic pressure. All hydraulic cylinders shall be double acting with direct coupled safety check valves as protection, in case of pump or hose failure.

Reservoir shall be of steel welded construction with 20 gallon (minimum) storage capacity. Reservoir shall have baffles, clean out access, exterior oil sight level gauge, and magnetic drain plug.

Hydraulic oil shall be filtered through a return line 6 micron filter with replaceable element. A 100 mesh strainer shall be located on the suction side of the reservoir. All filters shall be accessible for easy element replacement.

Shut-off valves shall be provided and installed to allow for cleaning.

Hydraulic fluid transmission lines shall be flexible hoses.

Flexible hoses shall be wired braid reinforced and shall have a weather and abrasion resistant covering.

Pressure gauges shall be provided in the circuit of hydraulic system to allow for checking manufacturer's specified pressure settings.

## **G. CONTROLS AND SAFETY SYSTEM:**

### Controls:

Three (3) complete sets of controls shall be provided:

1. One set of hydraulically operated controls on unit's Turret No. 1.
2. One set of radio controls at the platform with wired/wireless capability.
3. One set of radio controls for operation on the truck deck or ground level.

In case of electrical failure, the hydraulic pedestal control shall be capable of overriding the radio controls. The radio controls shall be interchangeable and stored in the truck cab, when not in use.

All movements of the bridge inspection unit shall be controlled by low voltage electrical power, direct hydraulic power, or a properly balanced combination thereof. All boom and rotation functions shall be operated with two-way, return to neutral type levers. All control valves shall have proportional flow control and precise metering capability to provide smooth operation of the unit in all working positions and to insure the safety of operating personnel at all times.

Controls shall be arranged to allow for each individual movement separately or in any combination desired. Hydraulic controls shall be located to facilitate maintenance access with a lockable cover. Manual overrides shall be provided for all functions.

Truck engine E-Stop switch shall be installed at each control station.

Suspension lockouts shall be controlled in the cab, through a panel with color screen monitor.

## Safety Devices:

1. Interlock to prevent operation of underbridge inspection aerial device if suspension lockouts and counterweight are not engaged.
2. Limit switches to prevent rotation or articulation of booms into unstable positions.
3. Relief valves and switches to prevent overloading hydraulic system with excessive pressures.
4. E-Stop switches at the platform and deck.
5. Automatic check valves on hydraulic cylinders in case of pump or hose failure.
6. Automatic audible alarm to signal excessive slope conditions.
7. Engine shutdown system when low oil pressure, loss of coolant, or overheating develops.
8. A display shall be provided in the cab so that the operator can monitor or troubleshoot the unit limit switch system.
9. All boom lift cylinder shafts shall be of chrome rods to resist corrosion (passes 200 hour salt test).
10. A minimum 3-camera video monitoring system with display screen in the truck cab. One camera to be mounted at the rear bumper positioned to monitor obstacles behind the truck; one camera mounted by way of magnets at the end of Boom No. 2 to assist operator in placing the bucket through a truss; and one camera mounted by way of magnets at the end of Boom No. 3 to allow monitoring of personnel in the inspection bucket.

## **H. TRUCK STABILIZERS:**

The frame shall be equipped with a suspension torsion bar or two (2) axle locks on the front suspension and two (2) hydraulically operated rear suspension lockouts, controlled in the cab. The lockout system shall include indicator lights to alert the operator that the lockouts are engaged or disengaged. Lights shall be installed in the cab.

An interlock shall be installed to prevent operation of the underbridge inspection aerial device when the suspension lockout system is disengaged. A manual override (to allow booms to be stowed in case of system malfunction) shall be installed at Turret No. 1.

When lockouts are engaged, the truck shall be capable of withstanding all tipping forces generated by booms in all positions in both stationary and moving applications.

*OUTRIGGERS ARE UNACCEPTABLE*

## **I. COMMUNICATION SYSTEM:**

An intercommunication system between personnel in the truck cab, the pedestal control station, the ground remote control station, and the work platform shall be provided and installed. System shall consist of:

1. A fully transistorized amplifier (powered by the truck batteries) with on/off switch, volume controls and an integral press-to-talk switch mounted in the truck cab convenient to the driver, and at Turret No. 1. The platform speaker shall be activated in a hands free mode

## **J. ACCESSORIES:**

Two (2) 115 volt three (3) contact weatherproof grounding receptacles shall be provided at the bucket.

A removable tool tray shall be provided for use in the platform.

Two (2) swivel mounted, removable 12-volt floodlights shall be provided in the platform and five (5) 12-volt outlets at other locations along booms as specified by the owner.

Two (2) 115 volt, 1500 watt removable space heaters mounted in the inspection bucket.

## **K. LABELS:**

All controls, switches, lights and indicators shall be permanently labeled as to function and where applicable direction of operations, using either engraved plastic or stamped/etched metal labels.

## **L. DIESEL ENGINE DRIVEN ELECTRIC GENERATOR:**

Mounted under deck with sufficient power to supply two (2) 20 amp, 110 volt outlets and two (2) permanently mounted 1500 watt (minimum) electric heaters in inspection basket.

**Missouri Highways and Transportation Commission**  
**Standard Bid Provisions, General Terms and Conditions and Special Terms and Conditions**

**STANDARD SOLICITATION PROVISIONS**

- a. The solicitation for the procurement of the supplies referenced therein, to which these "Standard Bid Provisions, General Terms and Conditions and Special Terms and Conditions" are attached, is being issued under, and governed by, the provisions of Title 7 – Missouri Department of Transportation, Division 10 – Missouri Highways and Transportation Commission, Chapter 11 – Procurement of Supplies, of the Code of State Regulations. The Missouri Highways and Transportation Commission (**MHTC**), acting by and through its operating arm, the Missouri Department of Transportation (**MoDOT**), draws the Bidder's attention to said 7 CSR 10-11 for all the provisions governing solicitation and receipt of bids/quotes and the award of the contract pursuant to this solicitation.
- b. All bids/quotes must be signed with the firm name and by a responsible officer or employee. Obligations assumed by such signature must be fulfilled.

**GENERAL TERMS AND CONDITIONS**

**Definitions**

Capitalized terms as well as other terms used but not defined herein shall have the meaning assigned to them in section 7 CSR 10-11.010 Definition of Terms.

**Nondiscrimination**

- a. The Contractor shall comply with all state and federal statutes applicable to the Contractor relating to nondiscrimination, including, but not limited to, Chapter 213, RSMo; Title VI and Title VII of Civil Rights Act of 1964 as amended (42 U.S.C. Sections 2000d and 2000e, *et seq.*); and with any provision of the "Americans with Disabilities Act" (42 U.S.C. Section 12101, *et seq.*)
- b. **Sanctions for Noncompliance:** In the event of the Contractor's noncompliance with the nondiscrimination provisions of this contract, MHTC shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
  - i. withholding of payments to the Contractor under the contract until the Contractor complies, and/or,
  - ii. cancellation, termination or suspension of the contract, in whole or in part.

**Contract/Purchase Order**

- a. By submitting a bid/quote, the Bidder agrees to furnish any and all equipment, supplies and/or services specified in the solicitation documents, at the prices quoted, pursuant to all requirements and specifications contained therein.
- b. A binding contract shall consist of: (1) the solicitation documents, amendments thereto, and/or Best and Final Offer (BAFO) request(s) with any changes/additions, (2) the Contractor's bid response, and (3) the MHTC's acceptance of the bid by post-award contract or purchase order.
- c. A notice of award does not constitute an authorization for shipment of equipment or supplies or a directive to proceed with services. Before providing equipment, supplies and/or services, the Contractor must receive a properly authorized notice to proceed and/or purchase order.

**Applicable Laws and Regulations**

- a. The contract shall be construed according to the laws of the State of Missouri. The Contractor shall comply with all local, state, and federal laws and regulations related to the performance of the contract. The exclusive venue for any legal proceeding relating to or arising, out of the contract shall be in the Circuit Court of Cole County, Missouri.
- b. The Contractor must be registered and maintain good standing with the Secretary of State of the State of Missouri, Missouri Department of Revenue, and other regulatory agencies, as may be required by law or regulations. Prior to the issuance of a purchase order and/or notice to proceed, the Contractor may be required to submit to MHTC a copy of their current Authority Certificate from the Secretary of State of the State of Missouri and/or a copy of their Certificate of No Tax Due from the Missouri Department of Revenue.
- c. Prior to the issuance of a purchase order and/or notice to proceed, all **out-of-state** Contractors **providing services** within the state of Missouri must submit to MHTC a copy of their current Transient Employer Certificate from the Missouri Department of Revenue, in addition to a copy of their current Authority Certificate from the Secretary of State of the State of Missouri.

**Executive Order:**

The Contractor shall comply with all the provisions of Executive Order 07-13, issued by the Honorable Matt Blunt, Governor of Missouri, on the sixth (6<sup>th</sup>) day of March, 2007. This Executive Order, which promulgates the State of Missouri's position to not tolerate persons who contract with the state engaging in or supporting illegal activities of employing individuals who are not eligible to work in the United States, is incorporated herein by reference and made a part of this Agreement.

- 1) "By signing this Agreement, the Contractor hereby certifies that any employee of the Contractor assigned to perform services under the contract is eligible and authorized to work in the United States in compliance with federal law."
- 2) In the event the Contractor fails to comply with the provisions of the Executive Order 07-13, or in the event the Commission has reasonable cause to believe that the contractor has knowingly employed individuals who are not eligible to work in the United States in violation of federal law, the Commission reserves the right to impose such contract sanctions as it may determine to be appropriate, including but not limited to contract cancellation, termination or suspension in whole or in part or both.
- 3) The Contractor shall include the provisions of this paragraph in every subcontract. The Contractor shall take such action with respect to any subcontract as the Commission may direct as a means of enforcing such provisions, including sanctions for noncompliance.

**Preferences**

- a. In the evaluation of bids/quotes, preferences shall be applied in accordance with 7 CSR 10-11.020(7). Contractors should apply the same preferences in selecting subcontractors. The attached document entitled "**VENDOR INFORMATION AND PREFERENCE CERTIFICATION FORM**" must be completed and returned with the solicitation documents.
- b. Bidders are encouraged to obtain minority business enterprise (MBE) and women business enterprise (WBE) participation in this work through the use of subcontractors, suppliers, joint ventures, or other arrangements that afford meaningful participation for M/WBEs. Bidders are encouraged to obtain 10% MBE and 5% WBE participation.

**Missouri Highways and Transportation Commission**  
**Standard Bid Provisions, General Terms and Conditions and Special Terms and Conditions**

**Cancellation of Contract**

The MHTC may cancel the Contract at any time for a material breach of contractual obligations or for convenience by providing Contractor with written notice of cancellation. Should the MHTC exercise its right to cancel the contract for such reasons, cancellation will become effective upon the date specified in the notice of cancellation sent to the Contractor.

**Bankruptcy or Insolvency**

Upon filing for any bankruptcy or insolvency proceeding by or against the Contractor, whether voluntarily, or upon the appointment of a receiver, trustee, or assignee, for the benefit of creditors, the Commission reserves the right and sole discretion to either cancel the Agreement or affirm the Agreement and hold the Contractor responsible for damages.

**Warranty**

The Contractor expressly warrants that all equipment, supplies, and/or services provided shall: (1) conform to each and every specification, drawing, sample or other description which was furnished to or adopted by the MHTC, (2) be fit and sufficient for the purpose expressed in the solicitation documents, (3) be merchantable, (4) be of good materials and workmanship, and (5) be free from defect.

**Status of Independent Contractor**

The Contractor represents itself to be an independent Contractor offering such services to the general public and shall not represent itself or its employees to be an employee of the MHTC. Therefore, the Contractor shall assume all legal and financial responsibility for taxes, FICA, employee fringe benefits, workers' compensation, employee insurance, minimum wage requirements, overtime, etc., and agrees to indemnify, save and hold the MHTC, its officers, agents and employees harmless from and against any and all losses (including attorney fees) and damage of any kind related to such matters.

**Non-Waiver**

If one of the parties agrees to waive its right to enforce any term of this Contract, that party does not waive its right to enforce such term at any other time or to enforce any or all other terms of this Contract.

**Indemnification**

The Contractor shall defend, indemnify and hold harmless MHTC, including its members and department employees, from any claim or liability whether based on a claim for damages to real or personal property or to a person for any matter relating to or arising out of the Contractor's performance of its obligations under the contract awarded pursuant to this solicitation.

**Missouri Highways and Transportation Commission**  
**Standard Bid/Proposal Provisions, General Terms and Conditions and Special Terms and Conditions**

**SPECIAL TERMS AND CONDITIONS**

**Tax Exempt Status:**

MHTC is exempt from paying Missouri Sales Tax, Missouri Use Tax and Federal Excise Tax.

**Insurance**

The Contractor shall maintain or cause to be maintained at Contractor's own expense commercial general liability, automobile liability, worker's compensation insurance against negligent acts, errors or omissions of the Contractor, or its subcontractors and anyone directly or indirectly employed by any of them. Any insurance policy required as specified in this Section shall be written by a company that is licensed and authorized to issue such insurance in the state of Missouri and shall provide insurance coverage for not less than the following limits of liability:

- 1) General Liability: Not less than \$500,000 for any one person in a single accident or occurrence, and not less than \$3,000,000 for all claims arising out of a single occurrence;
- 2) Automobile Liability: Not less than \$500,000 for any one person in a single accident or occurrence, and not less than \$3,000,000 for all claims arising out of a single occurrence;
- 3) Missouri State Workmen's Compensation policy or equivalent in accordance with state law.

Upon request from the Commission, the Contractor shall provide the Commission with certificates of insurance evidencing the required coverage and that such insurance is in effect.

**Prohibition Of Employment Of Unauthorized Aliens:**

- a. **Non-employment of Unauthorized Aliens:** Pursuant to Section 285.530, RSMo., no business entity or employer shall knowingly employ, hire for employment, or continue to employ an unauthorized alien to perform work within the State of Missouri. As a condition for the award of any contract or grant in excess of five thousand dollars by the State or by any political subdivision of the State to a business entity, or for any business entity receiving a state-administered or subsidized tax credit, tax abatement, or loan from the state, the business entity shall:
  - 1) By sworn affidavit and provision of documentation, affirm its enrollment and participation in a federal work authorization program with respect to the employees working in connection with the contracted services. E-Verify is an example of a federal work authorization program. The business entity must affirm its enrollment and participation in the E-Verify federal work authorization program with respect to the employees proposed to work in connection with the services requested herein by providing acceptable enrollment and participation documentation consisting of **completed** copy of the E-Verify Memorandum of Understanding (MOU). For business entities that are not already enrolled and participating in a federal work authorization program, E-Verify is available at [http://www.dhs.gov/files/programs/gc\\_1185221678150.shtm](http://www.dhs.gov/files/programs/gc_1185221678150.shtm)
  - 2) By sworn affidavit, affirm that it does not knowingly employ any person who is an unauthorized alien in connection with the contracted services. A copy of the affidavit referenced herein is provided within this document, attached as Exhibit A.
- b. **Proof of Lawful Presence For Sole Proprietorships and Partnerships:** If the business entity is a sole proprietorship or partnership, pursuant to Section 208.009, RSMo., each sole proprietor and each general partner shall provide affirmative proof of lawful presence in the United States. Such sole proprietorship or partnership is eligible for temporary public benefits upon submission by each sole proprietor and general partner of a sworn affidavit of his/her lawful presence on the United States until such lawful presence is affirmatively determined, or as otherwise provided by Section 208.009, RSMo. A copy of the affidavit reference herein is provided within this document, attached as Exhibit B.

**Delivery**

- a. The following days shall be construed as **official holidays** under the terms of the contract:

January 1	New Year's Day
Third Monday in January	Martin Luther King, Jr.'s Birthday
February 12	Lincoln's Birthday
Third Monday in February	Washington's Birthday
May 8	Truman's Birthday
Last Monday in May	Memorial Day
July 4	Independence Day
First Monday in September	Labor Day
Second Monday in October	Columbus Day
November 11	Veteran's Day
Fourth Thursday in November	Thanksgiving Day
December 25	Christmas Day

- b. When any of the above **holidays falls** on a **Sunday**, the holiday will be observed on the following **Monday**; when any of the above **holidays falls** on a **Saturday**, the **holiday** will be observed on the immediately preceding **Friday**.
- a. Contractor in writing within **30 Days** after the claimed cause for the delay has ceased to exist.

**Liquidated Damages**

- a. In the event the successful Contractor fails to deliver equipment within the time specified, the Department and the public will sustain damages because of such delay in delivery, the exact extent of which would be difficult to ascertain, and in order to liquidate such damage in advance it is agreed that the **sum of \$250.00per day**, for each assessable calendar day on which the delivery has not been completed, is reasonable and the best estimate which the parties can arrive at as liquidated damages, and it is therefore agreed that said amount will be withheld from payments due the Contractor or otherwise collected from the Contractor as liquidated damages.
- b. **Saturdays, Sundays, holidays and days whereas the Department has suspended work** shall not be assessable days.



