

BID FORM

MAILING ADDRESS:
MISSOURI DEPARTMENT OF TRANSPORTATION
GENERAL SERVICES, P.O. BOX 270
JEFFERSON CITY, MO 65102

REQUEST NO.	3-150624TV
DATE	June 4, 2015

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

2:00 pm., Central Time, June 24, 2015

AND THEN PUBLICLY OPENED AND READ FOR FURNISHING THE FOLLOWING EQUIPMENT.

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

Submit net bid as cash discount stipulations will not be considered

Various End User Delivery Locations

DEFINITE DELIVERY DATE SHOULD BE SHOWN. THE BIDDER MUST SIGN AND RETURN BEFORE DATE AND TIME SET FOR OPENING.

BUYER: Tom Veasman
BUYER EMAIL:
tom.veasman@modot.mo.gov

BUYER TELEPHONE: 573-522-4404

CRANES

This Request For Bid seeks bids from qualified organizations to provide CRANES in accordance with the following pages. MoDOT will receive bids at the following **mailing address: P.O. Box 270, Jefferson City, MO 65102-0270**, or hand-delivered in a sealed envelope to the following **physical address: General Services Procurement at 830 MoDOT Drive, Jefferson City, MO 65109** until 2:00 p.m. Central Time, June 24, 2015. Bid forms and information may be obtained by contacting Tom Veasman at 573-522-4404, tom.veasman@modot.mo.gov, or electronically download them at: <http://www.modot.org/business/surplus/Fleet%20Buyers%20Web%20Page/Jan08Cranes.htm>

Components of Agreement: 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 Vendor's bid response, and (3) the MoDOT/MHTC's acceptance of the bid by post-award contract or purchase order. However, MoDOT reserves the right to clarify any relationship in writing and such written clarification shall govern in case of conflict with the applicable requirements stated in the RFB or the Vendor's bid. The Vendor is cautioned that its bid shall be subject to acceptance by MoDOT without further clarification.

Note that submission of bids to the above mailing address must go through MoDOT's mail room and will require additional time to arrive at the 830 MoDOT Drive location.

(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.: _____
Federal I.D. 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:

- 1.1.1 This Request for Bid (RFB) seeks bids from qualified organizations to provide **cranes** to the Missouri Highways and Transportation Commission (MHTC) and Missouri Department of Transportation (MoDOT). Each bid must be in a sealed envelope, be mailed or delivered by courier to the RFB Coordinator at the below listed address, on or before the date and time listed herein for receipt of bids. All questions regarding the RFB shall be submitted to the RFB Coordinator. **Bids must be returned to the office of the RFB Coordinator no later than 2:00 p.m., CDT, June 24, 2015.**

RFB COORDINATOR:

Tom Veasman, Senior General Services Specialist

MAILING ADDRESS:

**Missouri Department of Transportation
P. O. Box 270
Jefferson City, MO 65102
Attn: Tom Veasman**

PHYSICAL ADDRESS:

**Missouri Department of Transportation
General Services Division
830 MoDOT Drive
Jefferson City, MO 65109**

Note that submission of bids to the above **mailing address** must go through MoDOT's mail room and will require additional time to arrive at 830 MoDOT Drive.

PHONE: 573-522-4404

FAX: 573-526-6948

1.2 General Information:

- 1.2.1 This document constitutes an invitation for competitive, sealed bids for the procurement of cranes as set forth herein.
- 1.2.2 Organization: This RFB is divided into the following parts:
- 1) Introduction and General Information
 - 2) Scope of Work
 - 3) Bid Submission
 - 4) Pricing Pages
 - 5) Manuals, Technical Service & Training Requirements
 - 6) Vendor Information and Preference Certification Form
 - 7) Cooperative Purchasing Form
 - 8) Anti-Collusion Statement
 - 9) Terms and Conditions
 - 10) Specifications (Crane and Cab/Chassis)

2. SCOPE OF WORK

2.1 General Requirements:

- 2.1.1 The vendor shall provide **cranes**, to MoDOT, in accordance with the provisions and requirements stated herein.
- 2.1.2 The vendor shall provide all deliverables to the sole satisfaction of MoDOT.
- 2.1.3 MoDOT does not guarantee that any unit(s) will be ordered.
- 2.1.4 Unless otherwise specified herein, the vendor shall furnish all material, labor, facilities, equipment, and supplies necessary to provide the deliverables required herein.
- 2.1.5 MoDOT reserves the right to reject any or all bids, and to accept or reject any items thereon, and to waive technicalities.

2.2 Required Specifications: All equipment bids must comply with the attached MoDOT Specifications, and any other provisions outlined in the solicitation documents. Any deviation from these specifications must be indicated for review, or else bid may be considered non-responsive.

2.3 Delivery Requirements:

- 2.3.1 The following delivery requirements shall apply:
 - a. Unless otherwise specified on the solicitation documents or purchase order, vendors shall give at least 24 hours advance notice of each delivery. Delivery will only be received between the hours of 8:00 a.m. to 3:00 p.m., Monday through Friday. No units will be received on Saturday, Sunday or state holidays.
 - b. If the prices bid herein include the delivery cost of the unit, the vendor agrees to pay all transportation charges on the unit as FOB - Destination. Freight costs must be included in the unit price bid and not listed as a separate line item.
 - c. Any demurrage is to be paid by the vendor direct to the railroad or carrier.
- 2.3.2 The vendor shall deliver the products specified herein to the following MoDOT locations:
 - a. St. Joseph, Missouri 64502
 - b. Macon, Missouri 63552
 - c. Hannibal, Missouri 63401
 - d. Lee's Summit, Missouri 64064-8002
 - e. Jefferson City, Missouri 65102
 - f. Chesterfield, Missouri 63017-5712
 - g. Joplin, Missouri 64802
 - h. Springfield, Missouri 65801
 - i. Willow Springs, Missouri 65793
 - j. Sikeston, Missouri 63801
 - k. Other locations as may be required
 - l. Hereinafter, each location shall be also referred to as "individual delivery destination".

2.4 Invoicing and Payment Requirements:

- 2.4.1 The vendor shall submit an itemized invoice to the applicable requesting address for the completion of deliverables, as specified herein.

Missouri Department of Transportation
830 MoDOT Drive
P.O. Box 270
Attn: GS Fleet Services
Jefferson City, MO 65102

- 2.4.2 Each invoice should 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.
- 2.4.3 The vendor shall understand and agree MoDOT reserves the right to make contract payments to the vendor through electronic funds transfer (EFT). Therefore, prior to any payments becoming due under the contract, the vendor 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 vendor invoice must be on the vendor'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 vendor to properly apply state payments to invoices. The vendor must comply with all other invoicing requirements stated in the RFB.
- 2.4.4 The vendor 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.
- 2.4.5 Other than the payment specified above, no other payments or reimbursements shall be made to the vendor for any reason whatsoever.
- 2.4.6 Unless otherwise provided for in the solicitation documents, payment for all equipment, supplies, and/or services required herein shall be made in arrears. MoDOT shall not make any advance deposits.

2.5 Other Award Requirements:

- 2.5.1 Award Period - The award period shall commence from the date of award until June 30, 2016, with up to three (3) one-year renewal option periods, or any portion therein.
- 2.5.2 Renewal Periods - If the option for renewal is exercised by MoDOT, the vendor shall agree to all terms and conditions of the RFB and all subsequent amendments. Renewal options are at the sole discretion of MoDOT.
- 2.5.3 Escalation Clause - In the event the vendor requests a price increase during either the original award period or any award renewal period, the vendor must provide a written request and documentation justifying the need for a price increase, and the amount of such price increase. MoDOT will review the vendor's written request and documentation, and decide if a price increase is to be granted at that particular time. The vendor shall understand and agree that MoDOT's decision shall be final and without recourse.
- a. No price increase shall be granted during the first 3 months of the original award period, or if applicable, the first 3 months of an award renewal period.
- b. In the event a price increase is granted due to an approved escalation, the renewal percentage shall be based upon the current award value (original value plus past approved escalations).
- 2.5.4 Inspection and Acceptance: MoDOT reserves the right to inspect the equipment at the point of manufacture,

intermediate storage point, or at a destination which shall be at the discretion of MoDOT.

- a. No equipment, supplies, and/or services received by MoDOT pursuant to an award shall be deemed accepted until MoDOT has had reasonable opportunity to inspect said equipment, supplies, and/or services.
- b. All equipment, supplies, and/or services which do not comply with the specifications and/or requirements or which are otherwise unacceptable or defective may be rejected. In addition, all equipment, supplies, and/or services which are discovered to be defective or which do not conform to any warranty of the vendor 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 shipment at the vendor's expense for full credit or replacement and to specify a reasonable date by which replacements must be received.
- d. MoDOT's right to reject any unacceptable equipment, supplies, and/or services shall not exclude any other legal or equitable remedies that MoDOT may have.

2.5.5 NET DELIVERED FIRM PRICE - the unit(s) shall be delivered complete and ready for use to the delivery destinations.

2.6 Equipment Trade-In Allowance:

- a. If equipment trade-ins are offered as an option, the trade-in(s) must be negotiated between the District, Division and vendor.
- b. The vendor must be currently under contract with MoDOT.
- c. It will be the responsibility of the vendor to examine the condition of the equipment offered for trade. The vendor must not impose any mandatory requirements or restrictions on equipment disposal.
- d. If the value offered is less than the Division's pre-established minimum price, the Division and District must both approve the trade in value.
- e. Allowance for trade-in(s) will be deducted from the full purchase price in computing the net purchase price. Trade-in(s) will not be available until the receipt and acceptance of the new equipment unless agreed upon by the District.

Trade-In Worksheet Example:

Make/Model of New Equipment:
Full Purchase Price: \$
Make/Model of Trade-In:
Less Trade-In (Deduct): \$
Net Purchase Price: \$

2.7 **Equipment Refurbishments:** If equipment refurbishments are available, the refurbishment(s) must be negotiated between the district 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 districts must keep accurate records verifying the process.

3. BID SUBMISSION

3.1 Bid Submission Information:

- 3.1.1 All bids must be received in a sealed envelope/package clearly marked “**3-150624TV Cranes**”.
- 3.1.2 All bids must be received at the office of the RFB Coordinator as outlined in Section 1. “INTRODUCTION AND GENERAL INFORMATION”.
- 3.1.3 The vendor may withdraw, modify or correct his/her bid after it has been deposited with MoDOT provided such request is submitted in writing and received at the location designated for the bid opening prior to the date and time specified for opening bids. Such a request received as specified will be attached to the bid and the bid will be considered to have been withdrawn, modified or corrected accordingly. No bid may be withdrawn, modified or corrected after the date and time specified for the opening of bids.
- 3.1.4 Open Competition / Request For Bid Document:
- a. It shall be the vendor's responsibility to ask questions, request changes or clarification, or otherwise advise MoDOT if any language, specifications or requirements of an RFB appear to be ambiguous, contradictory, and/or arbitrary, or appear to inadvertently restrict or limit the requirements stated in the RFB to a single source. Any and all communication from vendors regarding specifications, requirements, competitive bid process, etc., must be directed to the buyer from MoDOT, unless the RFB specifically refers the vendor to another contact. Such communication should be received at least three (3) working days prior to the official bid opening date.
 - b. Every attempt shall be made to ensure that the vendor receives an adequate and prompt response. However, in order to maintain a fair and equitable bid process, all vendors will be advised, via the issuance of an amendment to the RFB, of any relevant or pertinent information related to the procurement. Therefore, vendors are advised that unless specified elsewhere in the RFB, any questions received less than three (3) working days prior to the RFB opening date may not be answered.
 - c. Vendors are cautioned that the only official position of the MoDOT is that which is issued by MoDOT in the RFB or an amendment thereto. No other means of communication, whether oral or written, shall be construed as a formal or official response or statement.
 - d. MoDOT monitors all procurement activities to detect any possibility of deliberate restraint of competition, collusion among vendors, price-fixing by vendors, or any other anti-competitive conduct by vendors which appears to violate state and federal antitrust laws. Any suspected violation shall be referred to the Missouri Attorney General's Office for appropriate action.
- 3.1.5 Award:
- a. This is a Multiple Award bid and there will be no ‘one’ vendor awarded each item within this bid. Each individual delivery destination will have sole responsibility for the discretion of all purchasing decisions. After determination of award, individual delivery destination’s shall use the following criteria to determine the “lowest and best” bid based on model features, price, warranty, service, delivery timeline, location of servicing dealers, past performance of servicing dealers, and information, facts, and recommendations gained from the vendor. Selection of a **crane** will not be made solely based on low price.
 - b. The vendor must be in compliance with the laws regarding conducting business with MoDOT and as indicated in the Terms and Conditions.
 - c. Notification of award shall be at the time the tabulation is posted to the Internet. It is the sole responsibility for all vendors to check the website for bid results.

4. Pricing Pages

Crane with Separate Cab/Chassis Pricing

Item # 1 Crane equipment and cab/chassis, meeting the attached MoDOT specifications or equivalent, **NET DELIVERED PRICE**

CRANE MAKE/MODEL: _____

CRANE PRICE (CAB/CHASSIS SEPARATE) \$ _____

LENGTH OF STANDARD WARRANTY _____

Warranty – A copy of standard warranty coverage information for both the crane unit and the cab/chassis should be included with bid response.

TWO YEAR ADDITIONAL WARRANTY (Crane Only): PRICE \$ _____

WARRANTY COVERAGE: _____

INTERNATIONAL CAB/CHASSIS MODEL: _____

INTERNATIONAL PRICE \$ _____

OTHER CAB/CHASSIS MAKE/MODEL (If available): _____

OTHER CAB/CHASSIS PRICE \$ _____

Any deviations or exceptions to the specifications must be detailed when bids are submitted.

Please submit a complete list of any additional parts and/or options with detailed pricing information for the crane unit priced above. Indicate below the percent (%) discount off Manufacturers' Suggested Retail Prices (MSRP) for all crane equipment options available in your data book or pricing guides.

% discount off MSRP for Data Book or Pricing Guide Options: - % Discount _____

Delivery will be made _____ days after receipt of order.

CRANE OPTIONS:

	<u>ADDITIONAL VENDOR OPTIONS:</u> Please list any vendor-recommended options relevant to this unit. Use additional sheets if necessary.	
Option A		
Option B		
Option C		
Option D		
Option E		
Option F		
Option G		
Option H		

5. MANUALS, TECHNICAL SERVICE AND TRAINING REQUIREMENTS

Service & Operator Manuals

- a. A hard copy operator manual must be provided with each individual unit.
- b. One set of service and parts manuals (CD or hard copy) shall be supplied with each individual unit.

Technical Service

All vendors shall provide a number for technical assistance on all components of the items bid. Number shall be manned during normal working hours (8 AM to 4 PM).

Mandatory Training

For each unit sold, the vendor shall supply MoDOT with the following minimum mandatory training to include trainers time/travel expenses:

- a. Training shall take place at each district where equipment is delivered or at an off site location at the vendor's expense. 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. The vendor shall supply training within one month of delivery and acceptance. The vendor shall supply all training materials.
- b. Training shall be supplied to MoDOT mechanics by the vendor and will be a minimum 4 hours contact time. If more than 4 hours of training is necessary, the districts shall notify the vendor in advance of the scheduled training to setup the additional hours needed. Modules to be covered are electrical, chassis and power train. (also hydraulics if applicable) Warranty coverage(s) will be explained during each of these modules. Training time and location shall be coordinated with district personnel.

Should the training not meet the requirements (needs of the employees being trained) indicated above, the vendor shall come back to the location the training first took place and hold the training again.

6. VENDOR INFORMATION & PREFERENCE CERTIFICATION FORM

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

Vendor Name/Mailing Address: Email Address:	Vendor Contact Information (including area codes): Phone #: Cellular #: Fax #:
Printed Name of Responsible Officer or Employee:	Signature:
For Corporations - State in which incorporated:	For Others - 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 <u>Addresses of Missouri Offices or Places of Business.</u></i>	
M/WBE INFORMATION: List all certified Minority or Women Business Enterprises (<u>M/WBE</u>) utilized in the fulfillment of this bid. Include <u>percentages</u> for subcontractors and identify the M/WBE certifying agency: <div style="display: flex; justify-content: space-between;"> <u>M/WBE Name</u> <u>Percentage of Contract</u> <u>M/WBE Certifying Agency</u> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <hr style="width: 30%;"/> <hr style="width: 30%;"/> <hr style="width: 30%;"/> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <hr style="width: 30%;"/> <hr style="width: 30%;"/> <hr style="width: 30%;"/> </div>	
<i>If additional space is required, please attach an additional sheet and identify it as <u>M/WBE Information</u></i>	

Preference Certification

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

<u>GOODS/PRODUCTS MANUFACTURED OR PRODUCED IN USA:</u> If any or all of the goods or products offered in the attached bid which the bidder proposes to supply to the MHTC are <u>not</u> 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 <u>Location Products are Manufactured or Produced.</u></i>	
<u>MISSOURI SERVICE-DISABLED VETERAN BUSINESS:</u> Please complete the following if applicable. Additional information may be requested if preference is applicable. See below definitions for qualification criteria: Service-Disabled Veteran is defined as any individual who is disabled as certified by the appropriate federal agency responsible for the administration of veterans' affairs. Service-Disabled Veteran Business is defined as a business concern: <div style="margin-left: 20px;"> 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 b. The management and daily business operations of which are controlled by one or more service-disabled veterans. </div>	
<u>Veteran Information</u>	<u>Business Information</u>
<hr/> Service-Disabled Veteran's Name (Please Print)	<hr/> Service-Disabled Veteran Business Name
<hr/> Service-Disabled Veteran's Signature	<hr/> Missouri Address of Service Disabled Veteran Business

7. NOTICE OF COOPERATIVE PURCHASING

MODOT IS INTERESTED IN ASSISTING MISSOURI GOVERNMENTAL ENTITIES, ETC. IN PURCHASING EQUIPMENT, VARIOUS MATERIALS, AND SUPPLIES THAT MEET THE MISSOURI DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

Each bidder is asked to indicate below whether they would be willing to offer **Cranes** listed in the attached “Request for Bid” for sale to these local political entities at the same bid price offered to MoDOT.

It is understood MoDOT 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 **Cranes** meeting MoDOT 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 MoDOT 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 _____

E-MAIL _____

PHONE NUMBER _____

SIGNATURE _____

TITLE _____

DATE _____

8. ANTI-COLLUSION STATEMENT

STATE OF _____)
) SS.
COUNTY OF _____)

_____ being first

duly sworn, deposes and says that he is _____
Title of Person Signing

of _____

Name of Bidder

that all statements made and facts set out in the bid for the above project are true and correct; and that the bidder (The person, firm, association, or corporation making said bid) has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with such bid or any contract which may result from its acceptance.

Affiant further certifies that bidder is not financially interested in, or financially affiliated with, any other bidder for the above project.

By _____

By _____

By _____

Sworn to before me this _____ day of _____, 20_____.

Notary Public

My Commission Expires _____

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

9. 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 (6th) 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. However, the Contractor may themselves be responsible for the payment of taxes on materials they purchase to fulfill the contract. A Project Tax Exemption Certificate will be furnished to the successful Bidder upon request if applicable.

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.

Liquidated Damages

- a. In the event the successful Contractor fails to deliver the material 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 \$100 per day, per item**, 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.

10. MoDOT Crane Specifications

The following minimum crane specifications are for a National Crane, Model 660H or equivalent:

A. Crane (General)

This crane is to be a hydraulically operated, telescoping crane. The crane shall be capable of meeting SAE J765 stability requirements with an 85% tipping factor at maximum rated capacities when mounted on a factory recommended truck chassis.

This crane shall be designed, manufactured and tested to comply with the applicable portions of ASME B30.5, OSHA 29CFR1910.180 and 29CFR1926 Subpart CC, AWS D14.3 and SAE J-1063. The manufacturer shall maintain appropriate test results to verify compliance to these regulations.

B. Dimensional Requirements

This crane shall have an overall height of not more than 118.72 inches above the truck frame. It shall not exceed 102 inches in width while in transport position and shall be constructed such that truck frame reinforcing is not required when mounted on a minimum chassis frame of 20 in³ section modulus, 110,000 psi steel.

C. Capacity

The crane shall have a minimum lift capacity of 40,000 lb at a 5 ft radius. Crane shall be 180° stable or 360° stable with an optional single front outrigger. The crane shall meet or exceed the following lifting capacities with outriggers fully extended to 17.33 ft.

Radius	Capacity
5 ft	40,000 lb
12	19,650
20	11,950
30	7,700
40	5,400
50	3,900
55	3,000

D. Boom

The boom telescoping section shall be of the 4-plate type with perpendicular welded corners. The boom shall be of 3-section design and telescope hydraulically on nylon pads impregnated with molybdenum disulfide and teflon plugs. Extension and retraction of the boom shall be proportional. Holding valves shall be used on all cylinders to prevent retraction except when under power. The boom shall have the ability of being hydraulically extended to a maximum sheave height of 70 ft. The retracted length of the boom shall not exceed 24 ft. The boom shall be provided with an angle indicator mounted near the operator station. A suitable boom rest shall be provided for use during transport.

The capacities of the boom shall meet the following minimum requirements, at each boom section, while meeting all SAE J-765 stability test requirements, SAE J1063 stress requirements and complying with ANSI B30.5.

E. Winch

The crane shall be equipped with a boom mounted high pull single speed planetary type winch. A hydraulic motor with planetary gear reduction will provide “power down” load lowering. The load line shall be of no less than 325 ft of 9/16 inch rotation resistant 19.25 ton nominal breaking strength wire rope. The standard winch and cable combination shall have the following minimum performance ratings based on a 5 to 1 cable safety factor:

<u>Layer</u>	<u>Winch Pull</u>	<u>Cable Limit</u>	<u>Speed</u>
1 st	10,380 lb	7,700 lb	157 fpm
2 nd	9,360	7,700	175
3 rd	8,520	7,700	192
4 th	7,820	7,700	209
5 th	7,230	7,700	257

This crane shall be equipped with a device to help prevent sheave case and/or cable damage by sensing the position of the winch cable end attachments with respect to the sheave case. This system shall interrupt and shut down the “winch up” and or “telescope out” functions that cause “two-blocking”. The anti-two block wiring from the base of boom to switch located at sheave case shall be located inside of the boom. A boom mounted take up reel is not acceptable. Audible warning systems are unacceptable.

F. Cylinders

All cylinders on the crane shall be double acting with shaft packings of polyurethane U-cup type. Shafts shall be high yield, stress relieved and chrome plated. Piston sets shall be of polyurethane U-cup type with glass reinforced nylon bearings. Cylinder barrels shall be constructed of micro-honed tubing. Holding valves shall be provided to prevent cylinder from retracting unless under power.

G. Rotation

The boom shall be capable of being rotated a minimum of 375°. The rotation speed will be adjustable and provide 375° of rotation in a minimum of not more than 35 seconds. The rotation system shall consist of a planetary gear box with a spring applied hydraulically released brake. The brake shall have the ability to slip through to reduce impact loads on the rotation system. The drive gear shall maintain full tooth contact with the rotation gear without the necessity of adjustment. The turret and main frame mounting surface for the bearing shall be machined after welding. The rotation gear is to be attached to the crane frame by use of high strength bolts for ease of service. A full circle bolt pattern between the main frame, rotation bearing and turret shall be used for equal load distribution. The rotational system shall be capable of rotating, holding and restarting capacity loads up a 5° slope. Rotation shall be 375° non-continuous with cushioned rotation stop to prevent shock loading of rotational components.

H. Controls

The crane shall be equipped with dual operation control stations. The winch and boom control lever orientation is to be identical on each side of the crane for easy control identification. Each station is to consist of a foot operated throttle, engine start/stop switch, horn, control levers, and load charts. The control levers shall be installed 40 inches to 50 inches in height above the platform. The non-skid steel control platform shall be provided with a step for easy access. A glycerin filled pressure gage to monitor all hydraulic pressure shall be installed at one operation station. A level bubble shall be installed at both operator stations on a surface parallel to the swing bearing. Each operator station shall be provided with durable weatherproof capacity, instruction and safety placards appropriately describing the crane function.

I. Outriggers

The crane shall be equipped with "H" Style out-and-down outriggers located on each side of the crane frame. They are to be of boxed type construction and can be deployed for fully Retracted, Mid-Span (10 ft) and Full-Span (17 ft 4 inches) load charts. Manual locks provided for Mid-Span.

The "H" outrigger is integral to torsion box. Outriggers will have removable aluminum foot pads with a surface area of 452 square inches. The foot pads shall be provided with stow brackets mounted on each vertical outrigger cylinder. The outriggers must have the capacity of providing a minimum of 14 inches of ground penetration when mounted on a chassis frame height of 38 inches. The crane shall be equipped with an outrigger monitoring system and outrigger motion alarms.

J. Stabilizers

The crane will be provided with RSOD stabilizers mounted behind the rear tires. They shall be of a box type construction. The cylinders shall be fully enclosed to prevent debris from entering the cylinder.

The stabilizers shall have Retracted, Mid-Span and Full-Span positions with 20 inches of vertical movement. Stabilizers are to be used in conjunction with a standard mount or tractor mount configuration.

For 360° working area, the crane must be supplied with a SFO-single front stabilizer.

The optional SFO is a center front mounted vertical hydraulic jack allowing 360° operating capability (truck chassis must have integral front frame extensions).

The SFO is to be controlled from the outrigger control locations and be capable of tilting 90° for truck chassis with tilting hoods. The crane shall be equipped with an outrigger monitoring system and outrigger motion alarms.

K. Hydraulic System

The hydraulic system shall be open center type consisting of one three section pump (2-section vane and 1-section gear). The crane hydraulic pump shall be one (PTO powered), high pressure, capable of 3900 PSI operating pressure. The control valve shall be of the "direct acting/sliding spool type" with flow output of approximately 30 GPM to the winch, 18 GPM to the crane functions, and 10 GPM to rotation. The operator control

levers will be directly connected to the valve spools and the valve positioners will be 4-way spring centered. Spools shall have metering notches to limit flow to the limits specified above and below of the force type. Cylinder port relief valves, as required, shall be set below the maximum system operating pressure.

All high pressure hydraulic hoses shall be of a steel braid reinforced construction with a 4:1 safety factor. O-ring face seal hose fittings shall be used on all high pressure circuits. The chassis frame mounted reservoir shall be provided with a clean out port, removable magnetic plug and a 10 micron return line filter. 100% filtration is to be provided. The reservoir capacity shall not be less than 100 gallons. Hydraulic System Capacity is 125 gallons.

Hydraulic system is equipped with a shut off valve.

L. Load Moment Indicator

Crane shall be equipped with a load moment indicator (LMI) to assist the operator in preventing crane overload when making lifts on the main boom and jib. The LMI shall monitor maximum capacity based on boom position, outrigger position and lift cylinder pressure that can cause overload when maximum capacity is exceeded on the main boom and prevent two-blocking. Any function that will increase the load radius plus winch up of load shall be interrupted when maximum capacity is exceeded. The LMI shall display capacity usage, boom length, angle, and outrigger position. The display shall also indicate when the operator is approaching a lockout, and distinguish between ATB and overload conditions. The LMI is to have WADS (work area definition system) standard.

M. Minimum Truck Requirements

The crane shall be designed to be mounted directly behind the cab on a truck chassis with the following minimum specifications:

Front axle weight rating	14,000 lb
Rear axle weight rating	34,000 lb
Gross vehicle weight rating	48,000 lb
Cab to axle length	192 in
Frame Section Modulus (SM) under crane:	
(110,000 psi steel)	20 in ³
Frame Section Modulus (SM) over rear stabilizers:	
(110,000 psi steel)	13 in ³

N. Available Options

Line blocks for increased lifting capabilities
Single front stabilizer
Steel 30 inch solid wall bulkhead
Radio remote control
Personnel baskets
Oil cooler
Boom mounted hose reel

Model Profile
2016 7400 SBA 6X4 (SF625)

APPLICATION:	Mobile Aerial Crane
MISSION:	Requested GVWR: 58000. Calc. GVWR: 60000 Calc. Geared Speed: 77.2 MPH
DIMENSION:	Wheelbase: 260.00, CA: 192.90, Axle to Frame: 120.00
ENGINE, DIESEL:	{Navistar N10} EPA 2010, SCR, 350 HP @ 2000 RPM, 1150 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 350 Peak HP (Max)
TRANSMISSION, AUTOMATIC:	{Allison 3000_RDS_P} 5th Generation Controls; Close Ratio, 6-Speed, With Double Overdrive; On/Off Hwy; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 80,000-lb GVW & GCW Max.
CLUTCH:	Omit Item (Clutch & Control)
AXLE, FRONT NON-DRIVING:	{Meritor MFS-20-133A} Wide Track, I-Beam Type, 20,000-lb Capacity
AXLE, REAR, TANDEM:	{Meritor MT-40-14X-4DCR-P} Single Reduction, 0.433"(11mm) Wall Housing Thickness, 40,000-lb Capacity, R Wheel Ends, Lube Pump, With Driver Controlled Locking Differential in Forward-Rear and Rear-Rear Axle Gear Ratio: 5.29
CAB:	Conventional
TIRE, FRONT:	(2) 425/65R22.5 G296 MSA (GOODYEAR) 468 rev/mile, load range L, 20 ply
TIRE, REAR:	(8) 11R22.5 G622 RSD (GOODYEAR) 497 rev/mile, load range G, 14 ply
SUSPENSION, REAR, TANDEM:	{Hendrickson RT-403} Walking Beam Type 52" Axle Spacing; 40,000-lb Capacity With Rubber Center Bushings
FRAME REINFORCEMENT:	Outer "C" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312"; (274.6mm x 98.9mm x 8.0mm); 480.0" (12192mm) Maximum OAL
PAINT:	Cab schematic 100GN Location 1: 9219, Winter White (Std) Chassis schematic N/A

Code	Description
SF62500	Base Chassis, Model 7400 SBA 6X4 with 260.00 Wheelbase, 192.90 CA, and 120.00 Axle to Frame.
1570	TOW HOOK, FRONT (2) Frame Mounted
1CBU	FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.125" x 3.580" x 0.312" (257.2mm x 90.9mm x 8.0mm); 480.0" (12192) Maximum OAL
1GBP	FRAME REINFORCEMENT Outer "C" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312"; (274.6mm x 98.9mm x 8.0mm); 480.0" (12192mm) Maximum OAL
1LLA	BUMPER, FRONT Steel, Swept Back <u>Includes</u> : BUMPER, FRONT Powder Coated Gray (Argent) Color
1MBW	SPECIAL FRAME PIERCING for National Crane
1SAZ	CROSSMEMBER, REAR, AF (1) 89" Rear of Center of Tandem Suspension or Single Rear Axle
1WDT	FRAME EXTENSION, FRONT Integral; 20" In Front of Grille, With Outer "C" Channel Reinforcement
1WGY	WHEELBASE RANGE 221" (560cm) Through and Including 262" (665cm)
2ARY	AXLE, FRONT NON-DRIVING {Meritor MFS-20-133A} Wide Track, I-Beam Type, 20,000-lb Capacity <u>Notes</u> : The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.
3AGA	SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 20,000-lb Capacity; With Shock Absorbers <u>Includes</u> : SPRING PINS Rubber Bushings, Maintenance-Free <u>Notes</u> : The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.
4091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications <u>Includes</u> : BRAKE LINES Color and Size Coded Nylon : DRAIN VALVE Twist-Type : DUST SHIELDS, FRONT BRAKE : DUST SHIELDS, REAR BRAKE : GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster : PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel : PARKING BRAKE VALVE For Truck : QUICK RELEASE VALVE Bendix On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4 : SLACK ADJUSTERS, FRONT Automatic : SLACK ADJUSTERS, REAR Automatic : SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4 <u>Notes</u> : Rear Axle is Limited to 46,000-lb GAWR with Code 04091 BRAKE SYSTEM, AIR and Standard Rear Air Cam Brakes Regardless of Axle /Suspension Ordered.
4193	BRAKES, FRONT, AIR CAM 16.5" x 6", Includes 24 SqIn Long Stroke Brake Chambers <u>Notes</u> : The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.
4619	TRAILER CONNECTIONS Four-Wheel, With Hand Control Valve and Tractor Protection Valve, for Straight Truck

<u>Code</u>	<u>Description</u>
4732	DRAIN VALVE {Berg} Manual; With Pull Chain, for Air Tank <u>Includes</u> : DRAIN VALVE Mounted in Wet Tank
4AZA	AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel)
4EBD	AIR DRYER {Meritor Wabco System Saver 1200} with Heater <u>Includes</u> : AIR DRYER LOCATION Inside Left Rail, Back of Cab
4ETE	BRAKE CHAMBERS, FRONT AXLE {Haldex} 24 SqIn
4EVL	BRAKE CHAMBERS, REAR AXLE {Haldex GC3030LHDHO} 30/30 Spring Brake <u>Includes</u> : BRAKE CHAMBERS, SPRING (2) Rear Parking; WITH TRUCK BRAKES: All 4x2, 4x4; WITH TRACTOR BRAKES: All 4x2, 4x4; 6x4 & 6x6 with Rear Tandem Axles Less Than 46,000-lb. or GVWR Less Than 54,000-lb. : BRAKE CHAMBERS, SPRING (4) Rear Parking; WITH TRUCK BRAKES: All 6x4, 6x6; WITH TRACTOR BRAKES: 6x4 & 6x6 with Rear Tandem Axles 46,000-lb. or Greater or GVWR of 54,000-lb. or Greater
4NDB	BRAKES, REAR, AIR CAM S-Cam; 16.5" x 7.0"; Includes 30/30 Sq.In. Long Stroke Brake Chamber and Spring Actuated Parking Brake <u>Notes</u> : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.
4SBC	AIR COMPRESSOR {Bendix Tu-Flo 550} 13.2 CFM Capacity
4VED	AIR DRYER LOCATION Mounted Inside Right Rail, Approx. 35" Back of Cab
4WZJ	AIR TANK LOCATION (2) : One Mounted Under Each Frame Rail, Front of Rear Suspension, Parallel to Rail
5708	STEERING COLUMN Tilting
5CAL	STEERING WHEEL 2-Spoke, 18" Diam., Black
5PTB	STEERING GEAR (2) {Sheppard M-100/M-80} Dual Power
7BEP	EXHAUST SYSTEM Switchback Horizontal Aftertreatment Device, Frame Mounted Right Side Under Cab; Includes Single Vertical Tail Pipe, Frame Mounted Right Side Back of Cab
7SDL	ENGINE COMPRESSION BRAKE for Navistar N9/10 I6 Engines; Electronically Activated
7WAZ	TAIL PIPE (1) Turnback Type, Non-Bright, for Single Exhaust
7WCM	EXHAUST HEIGHT 8' 10"
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment <u>Includes</u> : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab : FUSES, ELECTRICAL SAE Blade-Type : HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever : HEADLIGHTS (2) Sealed Beam, Round, with Chrome Plated Bezels : JUMP START STUD Located on Positive Terminal of Outermost Battery : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light : RUNNING LIGHT (2) Daytime, Included With Headlights : STARTER SWITCH Electric, Key Operated : STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector

<u>Code</u>	<u>Description</u>
	: TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature
	: WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever
	: WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted
	: WIRING, CHASSIS Color Coded and Continuously Numbered
8518	CIGAR LIGHTER Includes Ash Cup
8718	POWER SOURCE Cigar Type Receptacle without Plug and Cord
8GGN	ALTERNATOR {Bosch LH160} Brush Type, 12 Volt 160 Amp. Capacity, Pad Mount
8HAB	BODY BUILDER WIRING Back of Standard Cab at Left Frame or Under Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn
8MKL	BATTERY SYSTEM {International} Maintenance-Free, (3) 12-Volt 1950CCA Total
8NAA	TAIL LIGHT WIRING MODIFIED Includes: Wiring for Standard Lt & Rt Tail Lights; Separate 8.0' of Extra Cable Wiring for Lt & Rt Body Mounted Tail Lights
8RMD	RADIO AM/FM/WB/Clock/3MM Auxiliary Input, with Multiple Speakers
8TMG	TRAILER CONNECTION SOCKET 7-Way; Mounted at rear of Frame, Wired for Turn Signals Combined With Stop, Compatible With Trailers That Use Combined Stop, Tail, Turn Lamps
8VAY	HORN, ELECTRIC Disc Style
8WCL	HORN, AIR Black, Single Trumpet, Air Solenoid Operated
8WGB	SOLENOID, AIR for Customer Use; Provides (2) Normally Closed Pilot Air Source, Approx. 4 CFM, Includes Latched Switch in Cab; Air Available Only With Key in "Ignition" or "Accessory" Position; Air Will Exhaust with Key in "Off" Position
	<u>Notes</u>
	: To Be Used as a Pilot Air and NOT as an Air Supply.
8WML	HEADLIGHTS Long Life Halogen; for Two Light System
8WPH	CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade
8WPZ	TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights
8WTK	STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt; less Thermal Over-Crank Protection
8WWJ	INDICATOR, LOW COOLANT LEVEL With Audible Alarm
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III With Trip Indicators, Replaces All Fuses Except For 5-Amp Fuses
8XGP	BATTERY BOX Steel, With Plastic Cover; 72" Back of Cab, Mounted Right Side Perpendicular to Frame Rail
8XGT	TURN SIGNALS, FRONT LED, Includes LED Side Marker Lights, Mounted on Fender
9585	FENDER EXTENSIONS Rubber
9HAN	INSULATION, UNDER HOOD for Sound Abatement
9HBM	GRILLE Stationary, Chrome
9HBN	INSULATION, SPLASH PANELS for Sound Abatement
9WBC	FRONT END Tilting, Fiberglass, With Three Piece Construction; for 2007 & 2010 Emissions
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100

<u>Code</u>	<u>Description</u>
	<u>Includes</u> : PAINT SCHEMATIC ID LETTERS "GN"
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone
10WPR	MUD FLAP HOLDER Spring Loaded, Painted Black; With Red and White Reflective Tape; Less Flaps
10WSX	MUD FLAPS, REAR Black Poly, With International Logo; Less Holders
10WWP	MUD FLAPS, FRONT WHEELS (2) Rubber, Behind Front Wheels, Mounted on Fender Extension, for Tire Size 425/445
11001	CLUTCH Omit Item (Clutch & Control)
12959	BLOCK HEATER, ENGINE {Phillips} 120 Volt/1250 Watt
	<u>Includes</u> : BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door
12NWJ	ENGINE, DIESEL {Navistar N10} EPA 2010, SCR, 350 HP @ 2000 RPM, 1150 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 350 Peak HP (Max)
12THZ	FAN DRIVE {Horton Drivemaster Polar Extreme} Direct Drive Type, Two Speed, With Residual Torque Device for Disengaged Fan Speed
	<u>Includes</u> : FAN Nylon
12UCW	RADIATOR Aluminum, Cross Flow, Series System; 1228 SqIn Core and 648 SqIn Charge Air Cooler and With Transmission Oil Cooler
12UNR	FEDERAL EMISSIONS EPA, OBD and GHG Certified for Calendar Year 2015; N9 & N10 Engines
12VBC	AIR CLEANER Single Element
	<u>Includes</u> : GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted
12VXT	THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel
12VZA	ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; With Ignition Switch Control for MaxxForce and Navistar post 2007 Emissions Electronic Engines
12WZJ	EMISSION COMPLIANCE Low NOx Idle Engine, Complies with California Clean Air Regulations; Includes "Certified Clean Idle" Decal located on Driver Door
13AVR	TRANSMISSION, AUTOMATIC {Allison 3000_RDS_P} 5th Generation Controls; Close Ratio, 6-Speed, With Double Overdrive; On/Off Hwy; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 80,000-lb GVW & GCW Max.
13WBL	TRANSMISSION SHIFT CONTROL {Allison} Push-Button Type; for Allison 3000 & 4000 Series Transmission
13WLP	TRANSMISSION OIL Synthetic; 29 thru 42 Pints
13WUC	ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); General Purpose Trucks, Construction
13WYU	SHIFT CONTROL PARAMETERS Allison 3000 or 4000 Series Transmissions, 5th Generation Controls, Performance Programming
13XAA	PTO CONTROL, DASH MOUNTED For Customer Provided PTO; Includes Switch, Electric/Air Solenoid, Piping and Wiring
14GVL	AXLE, REAR, TANDEM {Meritor MT-40-14X-4DCR-P} Single Reduction, 0.433"(11mm) Wall Housing Thickness, 40,000-lb Capacity, R Wheel Ends, Lube Pump, With Driver Controlled Locking Differential in Forward-Rear and Rear-Rear Axle . Gear Ratio: 5.29

<u>Code</u>	<u>Description</u>
	<u>Includes</u> : POWER DIVIDER LOCK Electric over Air Operated, Cab Control with Indicator Light : REAR AXLE DRAIN PLUG (2) Magnetic, For Tandem Rear Axle <u>Notes</u> : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.
14UHC	SUSPENSION, REAR, TANDEM {Hendrickson RT-403} Walking Beam Type 52" Axle Spacing; 40,000-lb Capacity With Rubber Center Bushings <u>Includes</u> : CROSSMEMBER, SUSPENSION Stamped Steel Double Dogbone <u>Notes</u> : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.
14WAL	SUSPENSION/REAR-AXLE IDENTITY for Meritor Tandem Rear Axles With Bar-Pin Beam Attachment Type Suspensions
14WBS	TRANSVERSE TORQUE RODS with Hendrickson Suspensions
15DYP	DEF TANK 9.5 U.S. Gal. 36.0L Capacity, Frame Mounted Outside Left Rail, Under Cab
15SWE	FUEL TANK Top Draw; Non-Polished Aluminum, 26" Diam., 70 U.S. Gal., 265 L Capacity Mounted Left Side, Under Cab
16030	CAB Conventional
	<u>Includes</u> : ARM REST (2) Molded Plastic; One Each Door : COAT HOOK, CAB Located on Rear Wall, Centered Above Rear Window : CUP HOLDERS Two Cup Holders, Located in Lower Center of Instrument Panel : DOME LIGHT, CAB Rectangular, Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Console, Center Mounted : GLASS, ALL WINDOWS Tinted : GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side : GRAB HANDLE, CAB INTERIOR (2) Front of "B" Pillar Mounted, One Each Side : INTERIOR SHEET METAL Upper Door (Above Window Ledge) Painted Exterior Color : STEP (4) Two Steps Per Door
16HBA	GAUGE CLUSTER English With English Electronic Speedometer
	<u>Includes</u> : GAUGE CLUSTER (6) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter, Washer Fluid Level : ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code Readout : WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible)
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster
16HLJ	GAUGE, DEF FLUID LEVEL
16JNT	SEAT, DRIVER {National 2000} Air Suspension, High Back With Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, With 2 Position Front Cushion Adjust, -3 to +14 Degree Angle Back Adjust
	<u>Includes</u> : SEAT BELT 3-Point, Lap and Shoulder Belt Type
16SMN	SEAT, PASSENGER {National} Non Suspension, High Back, Fixed Back, Integral Headrest, Vinyl

Code	Description
16SNB	MIRRORS (2) {Lang Mekra} Rectangular, 7.55" x 14.1" Integral Convex Both Sides, 102" Inside Spacing, Breakaway Type, Thermostatically Controlled Heated Heads, Black Heads, Brackets and Arms
16WBY	ARM REST, RIGHT, DRIVER SEAT
16WCT	AIR CONDITIONER {Blend-Air} With Integral Heater & Defroster <u>Includes</u> : HEATER HOSES Premium : HOSE CLAMPS, HEATER HOSE Mubea Constant Tension Clamps : REFRIGERANT Hydrofluorocarbon HFC-134A
16WJS	INSTRUMENT PANEL Center Section, Flat Panel
16WJU	WINDOW, POWER (2) and Power Door Locks, Left and Right Doors, Includes Express Down Feature
16WKY	HVAC FRESH AIR FILTER
16WLE	STORAGE POCKET, DOOR Molded Plastic, Full Width; Mounted on Passenger Door
16WLS	FRESH AIR FILTER Attached to Air Intake Cover on Cowl Tray in Front of Windshield Under Hood
16WRX	CAB INTERIOR TRIM Deluxe <u>Includes</u> : "A" PILLAR COVER Molded Plastic : CAB INTERIOR TRIM PANELS Cloth Covered Molded Plastic, Full Height; All Exposed Interior Sheet Metal is Covered Except for the Following: with a Two-Man Passenger Seat or with a Full Bench Seat the Back Panel is Completely Void of Covering : CONSOLE, OVERHEAD Molded Plastic; With Dual Storage Pockets with Retainer Nets and CB Radio Pocket : DOOR TRIM PANELS Molded Plastic; Driver and Passenger Doors : FLOOR COVERING Rubber, Black : HEADLINER Soft Padded Cloth : INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section : STORAGE POCKET, DOOR (1) Molded Plastic, Full-Length; Driver Door : SUN VISOR (2) Padded Vinyl with Driver Side Toll Ticket Strap, Integral to Console
16WSK	CAB REAR SUSPENSION Air Bag Type
27DNP	WHEELS, FRONT DISC; 22.5" Painted Steel, 10-Stud (285.75MM BC) Hub Piloted, 5-Hand Hole, Flanged Nut, Metric Mount, 12.25 DC Rims; With Steel Hubs, with 5.375" Offset <u>Includes</u> : PAINT IDENTITY, FRONT WHEELS White <u>Notes</u> : Compatible Tire Sizes: 385/65R22.5, 425/65R22.5
28DRN	WHEELS, REAR {Accuride} DUAL DISC; 22.5" Painted Steel, 5-Hand Hole, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With .472" Thick Increased Capacity Disc and Steel Hubs <u>Includes</u> : PAINT IDENTITY, REAR WHEELS White <u>Notes</u> : Compatible Tire Sizes: 11R22.5, 12R22.5, 255/70R22.5, 255/80R22.5, 265/75R22.5, 275/70R22.5, 275/80R22.5, 295/75R22.5, 295/80R22.5
60AAA	BDY INTG, REMOTE POWER MODULE Mounted Under Cab or On Battery Box; Up to 6 Outputs & 6 Inputs, Max. 20 amp. per Channel, Max. 80 amp. Total (Includes 1 Switch Pack With Latched Switches)
7372138102	(8) TIRE, REAR 11R22.5 G622 RSD (GOODYEAR) 497 rev/mile, load range G, 14 ply
7752668113	(2) TIRE, FRONT 425/65R22.5 G296 MSA (GOODYEAR) 468 rev/mile, load range L, 20 ply

Code**Description**

Cab schematic 100GN

Location 1: 9219, Winter White (Std)

Chassis schematic N/A

Services Section:

40115

WARRANTY Standard for WorkStar 7300/7400 (4x2, 4x4, 6x4, 6x6), Effective with Vehicles Built January 2, 2015 or Later, CTS-2002U