

State of New Hampshire
Division of Procurement and Support Services
Bureau of Purchase and Property
25 Capitol Street, State House Annex
Concord, NH 03301-6398

Date: 11/16/15

Bid No.: 1843-16

Date of Bid Opening: 11/25/15

Time of Bid Opening: 11:00 AM

YOU MAY EMAIL YOUR BID TO ALAN HOFMANN AT: EMAIL PRCHWEB@NH.GOV

BID INVITATION FOR CONTRACT: TRUCK CAB AND CHASSIS

[Insert name of signor] James Ramsay, on behalf of Liberty International [insert name of entity submitting bid (collectively referred to as "Vendor") hereby submits an offer as contained in the written bid submitted herewith ("Bid") to the State of New Hampshire in response to BID #1843-16 at the price(s) quoted herein in complete accordance with the bid.

Vendor attests to the fact that:

1. The Vendor has reviewed and agreed to be bound by the Bid.
2. The Vendor has not altered any of the language or other provisions contained in the Bid document.
3. The Bid is effective for a period of 180 days from the Bid Opening date as indicated above.
4. The prices Vendor has quoted in the Bid were established without collusion with other vendors.
5. The Vendor has read and fully understands this Bid.
6. Further, in accordance with RSA 21-I:11-c, the undersigned Vendor certifies that neither the Vendor nor any of its subsidiaries, affiliates or principal officers (principal officers refers to individuals with management responsibility for the entity or association):
 - a. Has, within the past 2 years, been convicted of, or pleaded guilty to, a violation of RSA 356:2, RSA 356:4, or any state or federal law or county or municipal ordinance prohibiting specified bidding practices, or involving antitrust violations, which has not been annulled;
 - b. Has been prohibited, either permanently or temporarily, from participating in any public works project pursuant to RSA 638:20;
 - c. Has previously provided false, deceptive, or fraudulent information on a vendor code number application form, or any other document submitted to the state of New Hampshire, which information was not corrected as of the time of the filing a bid, proposal, or quotation;
 - d. Is currently debarred from performing work on any project of the federal government or the government of any state;
 - e. Has, within the past 2 years, failed to cure a default on any contract with the federal government or the government of any state;
 - f. Is presently subject to any order of the department of labor, the department of employment security, or any other state department, agency, board, or commission, finding that the applicant is not in compliance with the requirements of the laws or rules that the department, agency, board, or commission is charged with implementing;
 - g. Is presently subject to any sanction or penalty finally issued by the department of labor, the department of employment security, or any other state department, agency, board, or commission, which sanction or penalty has not been fully discharged or fulfilled;
 - h. Is currently serving a sentence or is subject to a continuing or unfulfilled penalty for any crime or violation noted in this section;
 - i. Has failed or neglected to advise the division of any conviction, plea of guilty, or finding relative to any crime or violation noted in this section, or of any debarment, within 30 days of such conviction, plea, finding, or debarment; or
 - j. Has been placed on the debarred parties list described in RSA 21-I:11-c within the past year.

This document must be signed by a person who is authorized to legally obligate the responding vendor. A signature on this document indicates that all State of New Hampshire terms and conditions are accepted by the responding vendor and that any and all other terms and conditions submitted by the responding vendor are null and void, even if such terms and conditions have terminology to the contrary. The responding vendor shall also be subject to State of New Hampshire terms and conditions as stated on the reverse of the purchase order.

Authorized Signor's Signature [Signature] Authorized Signor's Title Municipal Sales

NOTARY PUBLIC/JUSTICE OF THE PEACE

COUNTY: Hillsborough STATE: NH ZIP: 03103

On the 25th day of November, 2015, personally appeared before me, the above named James Ramsay, in his/her capacity as authorized representative of Liberty Intl, known to me or satisfactorily proven, and took oath that the foregoing is true and accurate to the best of his/her knowledge and belief. Trucks of NH LLC

In witness thereof, I hereunto set my hand and official seal.

[Signature]
(Notary Public/Justice of the Peace)

My commission expires: 12/20/15 (Date)

Unless specifically amended or deleted by the Division of Procurement and Support Services, the following General Terms and Conditions apply to this Bid and any resulting Purchase Order or Contract.

Form P31-B

Last Updated: 10/20/2015 LJR

GENERAL CONDITIONS AND INSTRUCTIONS:

NATURE OF, AND ELIGIBILITY TO RESPOND. This bid invitation is submitted in accordance with Chapter 21-1, and rules promulgated thereunder, and constitutes a firm and binding offer. A bid may not be withdrawn unless permission is obtained from the Bureau of Purchase and Property.

Bids may be issued only by the Bureau of Purchase and Property and are not transferable.

SAMPLES AND DEMONSTRATIONS. When samples are required they must be submitted free of costs and will not be returned. Items left for demonstration or evaluation purposes shall be delivered and installed free of charge and shall be removed at no cost to the State. Demonstration units shall not be offered to the State as new equipment.

BIDS. Bids must be received at the Bureau of Purchase and Property before the date and time specified for the opening. Bids must be submitted on this bid form or exact copies and must be typed or clearly printed in ink. Corrections must be initialed. Bids are to be made less Federal Excise Tax and no charge for handling unless required by law.

SPECIFICATIONS. Vendors must submit on items as specified. Proposed changes must be submitted in writing and received at the Bureau of Purchase and Property at least five (5) business days prior to the bid opening. Vendors shall be notified in writing if any changes to the specifications are made.

AWARD. The award will be made to the responsible Vendor submitting a conforming bid meeting specifications at the lowest cost unless other criteria are noted in the bid. Unless otherwise noted, the award may be made by individual items.

If there is a discrepancy between the unit price and the extension, the unit price will prevail.

When identical low bids are received the award will be made in accordance with the Administrative Rules.

Discounts will not be considered in making award but may be offered on the Invoice for earlier payment and will be applicable on the date of completion of delivery or receipt of Invoice, whichever is later. On orders specifying split deliveries, discounts will apply on the basis of each delivery or receipt of Invoice, whichever is later.

PATENT INFRINGEMENT. Any responding vendor who has reason to believe that any other responding vendor will violate a patent should such responding vendor be awarded the contract shall set forth in writing, prior to the date and time of opening, the grounds for his belief and a detailed description of the patent.

ASSIGNMENT PROVISION. The responding vendor hereby agrees to assign all causes of action that it may acquire under the antitrust laws of New Hampshire and the United States as the result of conspiracies, combinations, or contracts in restraint of trade which materially affect the price of goods or services obtained by the state under this contract if so requested by the State of New Hampshire.

FEDERAL FUNDS. This Division of Plant and Property Management, under RSA 21-1:14, VIII shall assure the continuation or granting of federal funds or other assistance not otherwise provided for by law by following the Federal Procurement Standards.

STATE'S OPTIONS: The Bureau of Purchase and Property reserves the right to reject or accept all or any part of any bid, to determine what constitutes a conforming bid, to award the bid solely as it deems to be in the best interest of the State, and to waive irregularities that it considers not material to the bid.

PUBLIC INFORMATION: The responding vendor hereby acknowledges that all information relating to this bid and any resulting order (Including but not limited to fees, contracts, agreements and prices) are subject to these laws of the State of New Hampshire regarding public information.

PERSONAL LIABILITY: The responding vendor agrees that in the preparation of this bid or the execution of any resulting contract or order, representatives of the State of New Hampshire shall incur no liability of any kind.

PROOF OF COMPLIANCE. The responding vendor may be required to supply proof of compliance with proposal specifications. When requested, the responding vendor must immediately supply the Bureau of Purchase and Property with certified test results or certificates of compliance. Where none are available, the State may require independent laboratory testing. All costs for such testing certified test results or certificate of compliance shall be the responsibility of the responding vendor.

FORM OF CONTRACT. The terms and conditions set forth in any additional Terms and Conditions by the Bureau of Purchase and Property are part of the bid and will apply to any contract awarded the responding vendor unless specific exceptions are taken and accepted and will prevail over any contrary provisions in Terms and Conditions submitted by the responding vendor.

CONTRACT TERMS AND CONDITIONS

1. The State of New Hampshire, acting through the Division of Procurement and Support Services, engages the firm or individual ("the Vendor") to perform the services and/or sale of goods, described in the attached State documents, if any, and the Vendor's bid or quotation, both of which are incorporated herein by reference.
2. **COMPLIANCE BY VENDOR WITH LAWS AND REGULATIONS.** In connection with the performance of this agreement, the Vendor shall comply with all statutes, laws, regulations, and orders of federal, state, county or municipal authorities which shall impose any obligation or duty upon the Vendor, including, but not limited to civil rights and equal opportunity laws.
3. **TERM.** The contract, and all obligations of the parties thereunder, shall become effective on a specified date and shall be completed in their entirety prior to a specified date. Any work undertaken by the Vendor prior to the effective date shall be at his sole risk and, in the event that the contract shall not become effective, the State shall be under no obligation to reimburse the Vendor for any such work.
4. **CONTRACT PRICE.** The contract price, a payment schedule and a maximum limitation of price shall be as specified by the bid invitation and the Vendor's bid. All payments shall be conditioned upon receipt, and approval by the State, of appropriate vouchers and upon satisfactory performance by the Vendor, as determined by the State. The payment by the State of the Contract Price shall constitute complete reimbursement to the Vendor for all expenses of any nature incurred by the Vendor in the performance by the Vendor and complete payment for the Services. The State shall have no other liability to the Vendor.
5. **DELIVERY.** If the vendor fails to furnish items and/or services in accordance with all requirements, including delivery, the state may re-purchase similar items from any other source without competitive bidding, and the original vendor may be liable to the state for any excess costs. If a vendor is unable to complete delivery by the date specified, he must contact the using agency. However, the agency is not required to accept a delay to the original delivery date. All deliveries are subject to inspection and receiving procedure rules as established by the State of New Hampshire. Deliveries are not considered accepted until compliance with these rules has been established. State personnel signatures on shipping documents shall signify only the receipt of shipments. All deliveries shall be FOB Destination.
6. **INVOICING.** All invoices must be in triplicate showing Order Number, Unit and Extension Prices and discounts allowed. A separate invoice shall be submitted for each order. Unless otherwise noted on the invitation to bid or purchase order, payment will not be due until thirty (30) days after all services have been completed, or all items have been delivered, inspected and accepted or the invoice has been received at the agency business office, whichever is later.
7. **PERSONNEL.**
 - 7.1. The Vendor shall disclose in writing the names of all owners (5% or more), directors, officers, employees, agents or subcontractors who are also officials or employees of the State of New Hampshire. Any change in this information shall be reported in writing within fifteen (15) days of their occurrence.
 - 7.2. The person signing this agreement on behalf of the State, or his or her delegee ("Contracting Officer") shall be the State's representative for purposes of this agreement. In the event of any dispute concerning the interpretation of this agreement, the Contracting Officer's decision shall be final.
8. **EVENT OF DEFAULT; REMEDIES.**
 - 8.1. Any one or more of the following acts or omissions of the Vendor shall constitute an event of default hereunder ("Events of Default"):
 - 8.1.1. failure to deliver the goods or services satisfactorily or on schedule; or
 - 8.1.2. failure to submit any report required hereunder; or
 - 8.1.3. failure to perform any of the other covenants and conditions of this agreement.
 - 8.2. Upon the occurrence of any Event of Default, the State may take any one, or more, or all, of the following actions:
 - 8.2.1. give the Vendor a written notice specifying the Event of Default and requiring it to be remedied within, in the absence of a greater or lesser specification of time, thirty (30) days from the date of the notice; and if the Event of Default is not timely remedied, terminate this agreement, effective two (2) days after giving the Vendor notice of termination; and
 - 8.2.2. give the Vendor a written notice specifying the Event of Default and suspending all payments to be made under this agreement and ordering that the portion of the Contract Price, which would otherwise accrue to the Vendor during the period from the date of such notice until such time as the State determines that the Vendor has cured the Event of Default, shall never be paid to the Vendor; and
 - 8.2.3. set off against any other obligation the State may owe to the Vendor any damages the State suffers by reason of any Event of Default; and
 - 8.2.4. treat the agreement as breached and pursue any of its remedies at law or in equity, or both.
9. **WAIVER OF BREACH.** No failure by the State to enforce any provisions hereof after any Event of Default shall be deemed a waiver of its rights with regard to that Event, or any subsequent Event. No express failure of any Event of Default shall be deemed a waiver of any

provision hereof. No such failure or waiver shall be deemed a waiver of the right of the State to enforce each and all of the provisions hereof upon any further or other default on the part of the Vendor.

10. VENDOR'S RELATION TO THE STATE. In the performance of this agreement the Vendor is in all respects an independent contractor, and is neither an agent nor an employee of the State. Neither the Vendor nor any of its officers, employees, agents or members shall have authority to bind the State nor are they entitled to any of the benefits, workmen's compensation or emoluments provided by the State to its employees.

11. ASSIGNMENT AND SUBCONTRACTS. The Vendor shall not assign, or otherwise transfer any interest in this agreement without the prior written consent of the State. No work required by this contract shall be subcontracted without the prior written consent of the State.

12. INDEMNIFICATION. The contractor shall defend, indemnify and hold harmless the State, its officers and employees, from and against any and all losses suffered by the State, its officers and employees, and any and all claims, liabilities or penalties asserted against the State, its officers and employees, by or on behalf of any person, on account of, based on, resulting from, arising out of (or which may be claimed to arise out of) the acts or omissions of the Vendor. Notwithstanding the foregoing, nothing herein contained shall be deemed to constitute a waiver of the sovereign immunity of the State, which immunity is hereby reserved to the State. This covenant shall survive the termination of this agreement.

12.1 PATENT PROTECTION. The seller agrees to indemnify and defend the State of New Hampshire from all claims and losses resulting from alleged and actual patent infringements and further agrees to hold the State of New Hampshire harmless from any liability arising under RSA 382-A:2-312(3). (Uniform Commercial Code).

13. TOXIC SUBSTANCES. In compliance with RSA 277-A known as the Workers Right to Know Act, the vendor shall provide Material Safety Data Sheets with the delivery of any and all products covered by said law.

14. NOTICE. Any notice by a party hereto to the other party shall be deemed to have been duly delivered or given at the time of mailing by certified mail, postage prepaid, in a United States Post Office addressed to the parties at the addresses given below.

15. AMENDMENT. This agreement may be amended, waived or discharged only by an instrument in writing signed by the parties hereto.

16. CONSTRUCTION OF AGREEMENT AND TERMS. This agreement shall be construed in accordance with the laws of the State of New Hampshire, and is binding upon and inures to the benefit of the parties and their respective successors and assigns.

17. ADDITIONAL PROVISIONS. The additional provisions (if any) have been set forth as Exhibit "A" hereto.

18. ENTIRE AGREEMENT. This agreement, which may be executed in a number of counterparts, each of which shall be deemed an original, constitutes the entire agreement and understanding between the parties, and supersedes all prior agreements and understandings relating hereto.

**BID INVITATION FOR:
A CONTRACT FOR: TRUCK CAB AND CHASSIS**

PURPOSE:

The purpose of this bid invitation is to establish a contract(s) for supplying the State of New Hampshire agencies with the item(s) indicated in the "Offer" section of this bid invitation to be ordered as needed during the term of the contract, in accordance with the requirements of this bid invitation and any resulting contract. Items ordered under any resulting contract must be delivered FOB destination to the location(s) indicated in the "Delivery Locations" section of this bid invitation.

INSTRUCTIONS TO VENDOR:

Read the entire bid invitation prior to filling it out. Complete the pricing information in the "Offer" section (detailed information on how to fill out the pricing information can be found in the "Offer" section); complete the "Vendor Contact Information" section; and finally, fill out, sign, and notarize page 1 of the bid invitation.

BID SUBMITTAL

All bids must be submitted on this form or an exact copy, must be typed or clearly printed in ink and must be received on or before the date and time specified on page 1 of this bid. Interested parties may submit a bid to the State of New Hampshire Bureau of Purchase and Property by **email to PRCHWEB@NH.GOV**. All bids must be clearly marked with bid number, date due and purchasing agent's name.

IF YOU ARE EXPERIENCING DIFFICULTIES EMAILING YOUR BID OR YOU WISH TO VERIFY THAT YOUR BID RESPONSE HAS BEEN RECEIVED, PLEASE CALL (603) 271-2201 AND ASK A PURCHASING ASSISTANT FOR ASSISTANCE OR TO CHECK ON THE STATUS OF YOUR BID RESPONSE.

TIMELINE:

The timeline below is provided as a general guideline and is subject to change. Unless stated otherwise, considered the dates below a "no later than" date.

11/16/2015	Bid Solicitation distributed on or by
11/20/2015	Last day for questions, clarifications, and/or requested changes to bid
11/25/2015	11:00 AM Bid Opening
11/30/2015	Estimated Notification(s) of Award to apparent low bidder/s

GOVERNING TERMS AND CONDITIONS:

A responding bid that has been completed and signed by your representative will constitute your company's acceptance of all State of New Hampshire terms and conditions and will legally obligate your company to these terms and conditions.

A signed response further signifies that any terms and/or conditions that may be or have been submitted by the Vendor are specifically null and void and are not a part of this bid invitation or any awarded purchase order, even if said terms and/or conditions contain language to the contrary.

PUBLIC DISCLOSURE OF BID SUBMISSIONS:

Generally, all bids and proposals (including all materials submitted in connection with them, such as attachments, exhibits and addenda) become public information upon the effective date of a resulting contract or purchase order. However, to the extent consistent with applicable state and federal laws and regulations, as determined by the State, including, but not limited to, RSA Chapter 91-A (the "Right-to-Know" Law), the State will attempt to maintain the confidentiality of portions of a bid that are clearly and properly marked by a Vendor as confidential. Any and all information contained in or connected to a bid or proposal that a Vendor considers confidential must be clearly designated in a manner that draws attention to the designation. The State shall have no obligation to maintain the confidentiality of any portion of a bid, proposal or related material, which is not so marked. Marking an entire bid, proposal, attachment or sections thereof confidential without taking into consideration the public's right to know will neither be accepted nor honored by the State. Notwithstanding any provision of this RFP/RFB to the contrary, pricing will be subject to public disclosure upon the effective date of all resulting contracts or purchase orders, regardless of whether or not marked as confidential. If a bid or proposal results in a purchase order or contract, whether or not subject to approval by the Governor and Executive Council, all material contained in, made part of, or submitted with the contract or purchase order shall be subject to public disclosure.

If a request is made to the State by any person or entity to view or receive copies of any portion of a bid or proposal, and if disclosure is not prohibited under RSA 21-I: 13-a, Vendors acknowledge and agree that the State may disclose any and all portions of the bid, proposal or related materials which is not marked as confidential. In the case of bids, proposals or related materials that contain portions marked confidential, the State will assess what information it believes is subject to release; notify the Vendor that the request has been made; indicate what, if any, portions of the bid, proposal or related material will not be released; and notify the Vendor of the date it plans to release the materials. The State is not obligated to comply with a Vendor's designation regarding confidentiality.

By submitting a bid or proposal, the Vendor agrees that unless it obtains and provides to the State, prior to the date specified in the notice described in the paragraph above, a court order valid and enforceable in the State of New Hampshire, at its sole expense, enjoining the release of the requested information, the State may release the information on the date specified in the notice without any liability to the Vendor.

ELIGIBLE PARTICIPANTS:

Political sub-divisions (counties, cities, towns, school districts, special district or precinct, or any other governmental organization), or any nonprofit agency under the provisions of section 501c of the federal internal revenue code, are eligible to participate under this contract whenever said sub-division or nonprofit agency so desires. These entities are autonomous and may participate at their sole discretion. In doing so, they are entitled to the prices established under the contract. However, they are solely responsible for their association with the successful Vendor. The State of New Hampshire assumes no liability between the successful Vendor and any of these entities.

CONTRACT TERM:

The contract shall become effective upon execution by the Vendor and the approval of the Commissioner of the NH Department of Administrative Services. Initial contract period shall begin upon notification of award and shall extend through the manufacturer's build down date or until the vehicles are no longer available at the price quoted. The State of New Hampshire shall have the right to terminate any contract at any time by giving the vendor a thirty-(30) day written notice.

NOTICE: IT IS THE RESPONSIBILITY OF THE CONTRACTING VENDOR TO GIVE THE STATE OF NEW HAMPSHIRE, BUREAU OF PURCHASE AND PROPERTY, COPIES OF THE MANUFACTURER'S SCHEDULED "BUILD DOWN" OR "BALANCE OUT" DATES, INCLUDING THE FINAL DATE OF ORDER ACCEPTANCE.

VEHICLE RECALL NOTICE:

It will be the responsibility of the vendor to properly complete registration certificates of any vehicle awarded so recall notices will be forwarded to the using agency.

DELIVERY POINT:

For State Government – F.O.B. DESTINATION to state agencies as directed on resulting orders.
Specific delivery addresses within New Hampshire will be shown on orders.
For political sub-divisions – F.O.B. DESTINATION as directed on resulting orders
Specific delivery addresses will be shown on orders

TERMINATION:

The State of New Hampshire shall have the right to terminate the purchase contract at any time by giving the successful Vendor a thirty (30) day written notice.

VENDOR CERTIFICATIONS:

ALL Vendors **SHALL** be duly registered as a Vendor authorized to conduct business in the State of New Hampshire. Vendors shall comply with the certification below prior to a contract being awarded and through the term of any contract which results from said bid. Failure to comply shall be grounds for disqualification of bid and/or the termination of any resultant contract:

- **STATE OF NEW HAMPSHIRE VENDOR APPLICATION:** Vendor **SHALL** have a completed Vendor Application and Alternate W-9 Form which **SHALL** be on file with the NH Bureau of Purchase and Property. See the following website for information on obtaining and filing the required forms (no fee):
<http://das.nh.gov/purchasing/>

REQUEST FOR CHANGES AND/OR CLARIFICATION:

Any Questions must be submitted by an individual authorized to commit their organization to the Terms and Conditions of this bid. Submissions must clearly identify the bid Number, the Vendor's name and address and the name of the person submitting the question. Any questions, clarifications, and/or requested changes must be received in writing at the Bureau of Purchase and Property no later than 4:30 PM on 11/16/15.

Questions must be submitted by E-mail to Alan Hofmann at the following address: alan.hofmann@nh.gov

ADDENDA:

In the event it becomes necessary to add to or revise any part of this bid prior to the scheduled submittal date, the NH Bureau of Purchase and Property will post on our web site any Addenda. Before your submission and periodically prior to the RFB closing, Vendors are required to **check the site for any addenda** or other materials that may have been issued affecting the bid. The web site address is
<http://das.nh.gov/Purchasing/vendorresources.asp>.

WARRANTY REQUIREMENTS:

Successful Vendor shall be required to warranty all of the equipment awarded to Vendor for a period of not less than the manufacturer's standard period of time, from the date the items are received, inspected and accepted by the State of New Hampshire. The warranty shall cover 100% of all parts, shipping, labor, travel, lodging and expenses.

BID PRICES:

Bid prices must be in US dollars and must include delivery and all other costs required by this bid invitation. Special charges, surcharges (including credit card transaction fees), or fuel charges of any kind (by whatever name) may not be added on at any time. Any and all charges **must be built into your bid price** at the time of the bid.

BID RESULTS:

Bid results may be viewed when available, once the award has been made, on our web site only at: <http://das.nh.gov/purchasing>.

For Vendors wishing to attend the bid Opening: **Only the names of the Vendors submitting responses will be made public.**

ABILITY TO PROVIDE:

Successful Vendor must be capable of providing each State of New Hampshire agencies and eligible participants with their entire requirements of the items required in this bid invitation and any resulting contract without any delay or substitution.

ORDERING PROCEDURE:

State agencies will place their orders by electronic order entry, by e-mail or by Facsimile. Eligible participants will utilize their own individually established ordering procedures.

AUDITS AND ACCOUNTING:

The successful Vendor shall allow representatives of the State of New Hampshire to have complete access to all records for the purpose of determining compliance with the terms and conditions of this bid invitation and in determining the award and for monitoring any resulting contract.

At intervals during the contract term, and prior to the termination of the contract, the successful Vendor may be required to provide a complete and accurate accounting of all products and quantities ordered by each agency and institution and by political sub-divisions and authorized non-profit organizations.

ESTIMATED USAGE:

The quantities indicated in the offer section of this bid invitation are an estimate only for the State of New Hampshire's annual requirements. These quantities are indicated for informational purposes only and shall not be considered minimum or guaranteed quantities, nor shall they be considered maximum quantities. These quantities **do not** include any eligible participant usage.

USAGE REPORTING:

The successful Vendor shall be required to submit a quarterly and annual usage report for analysis to determine contract compliance. At a minimum, the Report shall include:

- Contract Number
- Utilizing Agency and Eligible Participant
- All Products Purchased (showing the manufacturer, item, part number, list price and the final cost after discount.)
- Total Cost of all Products Purchased
-

DELIVERY TIME:

The successful Vendor will be required to accomplish delivery of any item ordered under the contract within 120 days from the placement of the order.

The use of a private carrier to make delivery **does not** relieve the successful Vendor from the responsibility of meeting the delivery requirement.

ESTABLISHMENT OF ACCOUNTS:

Each State of New Hampshire agency must have its own individual customer account number. There will be instances where sub-sections of an agency will need their own individual customer account number. Should any State of New Hampshire agency place an order under the contract, the successful Vendor agrees to establish an account within three business days from the date the order is placed. However, there must be no delay in any shipment; the agency must receive the items ordered in accordance with the delivery time required under the "Delivery Time" section of this bid invitation, as if an account already exists for them.

RETURNED GOODS:

The successful Vendor must resolve all order and invoice discrepancies within five (5) business days from notification. Products returned due to quality issues, duplicate shipments, over-shipments, etc. must be picked up by the successful Vendor within ten (10) business days of notification with no restocking or freight charges, and must be replaced with specified products or the agency will be refunded/credited for the full purchase price. Unauthorized substitutions for any products are not allowed.

Standard stock products ordered in error by the State of New Hampshire must be returned for full credit within fifteen (15) business days of receipt. Products must be in re-saleable condition (original container, unused) and there will be no restocking fee charged for these products. The using agency will be responsible for any freight charges to return these items to the successful Vendor.

INVOICING:

Invoicing shall be done to the Agency Remit Account on the basis of each order completed, or other mutually agreed upon timeframe between the vendor and agency (example: monthly invoice). Invoices shall clearly indicate the quantity, description, packaging, date delivered, and contract price. Invoicing for eligible participants will be in accordance with their individual requirements.

PAYMENT:

Payments shall be made via Procurement Card (P-Card –Visa Credit Card).

The resulting contract(s) has mandatory Procurement Card usage for agencies enrolled in the State P-Card Program.

CONTRACT AWARD:

The award shall be made to the responsible Vendor(s) meeting the criteria established in this RFB and providing the lowest cost by line item. The State reserves the right to reject any or all bids or any part thereof and add/delete locations to the contract price. If an award is made it shall be, in the form of a State of New Hampshire Contract (s).

Successful Vendor will not be allowed to require any other type of order, nor will the successful Vendor be allowed to require the filling out or signing of any other document by State of New Hampshire personnel.

SPECIFICATION COMPLIANCE:

Vendor's offer must meet or exceed the required specifications as written. The State of New Hampshire shall be the sole determining factor of what meets or exceeds the required specifications.

Unless otherwise specified by the Bureau of Purchase and Property in this bid invitation document, all trucks offered by the Vendor must be new (and of the current model year, if applicable); shall not be used, rebuilt, refurbished; shall not have been used as demonstration equipment, and shall not have been placed anywhere for evaluation purposes.

OFFER:

Vendor hereby offers to furnish to State of New Hampshire agencies and institutions and to any political sub-division and authorized non-profit organization wishing to participate, in accordance with all of the requirements of this bid invitation at the following prices for the entire contract term and any extension.

<u>Description</u>	<u>Delivered Price / Unit</u>
NEW 2016 MODEL YEAR 36,000 # GVWR TRUCK CAB AND CHASSIS AS PER STATE OF NEW HAMPSHIRE SPECIFICATION #'S 2015-00 AND 2016-48 DOT	<u>\$135,325.00</u>

ADD FOR OPTIONS:

- | | |
|--|-----------------|
| 1. CAB TO AXLE DIMENSION 96"
_____ | \$N/c _____ |
| 2. CAB TO AXLE DIMENSION 108"
_____ | \$N/c _____ |
| 3. CAB TO AXLE DIMENSION 120"
_____ | <u>\$550.00</u> |
| 4. HEATED WINDSHIELD | <u>\$500.00</u> |

DEDUCT FOR OPTIONS:

- | | |
|---|------------------------|
| REMOVE LEFT OR RIGHT FRONT DRIVER CONTROLLED OVERLOAD AIR BAG | (<u>\$475.00</u>) |
| REMOVE SOFTWARE REQUIREMENT | (<u>\$44,325.00</u>) |

ENGINE TYPE International N9 (Navistar)

MANUFACTURER/MODEL International 7400 SFA 4x2

<u>Description</u>	<u>Delivered Price / Unit</u>
NEW 2016 MODEL YEAR 55,000 # GVWR TRUCK CAB AND CHASSIS AS PER STATE OF NEW HAMPSHIRE SPECIFICATION #'S 2015-00 AND 2016-50 DOT	<u>\$171,000.00</u>

ADD FOR OPTIONS:

- | | |
|-------------------------------------|-------------------|
| 1. CAB TO AXLE DIMENSION 138" | \$N/c _____ |
| 2. CAB TO AXLE DIMENSION 150" | <u>\$400.00</u> |
| 3. ENGINE UPGRADE ADDITIONAL CHARGE | <u>\$1,000.00</u> |
| 4. HEATED WINDSHIELD | <u>\$500.00</u> |

ADD FOR ENGINE UPGRADE OPTIONS

- | | |
|--|-------------------|
| 1. INTERNATIONAL N13, 450 HP @1,700 RPM, 1,550 FT LB @ 1,000 RPM, | <u>\$1,000.00</u> |
| 2. CUMMINS ISX 15 450 HP @ 1,700 RPM, 1,650 FT LB @ 1,200 RPM | \$ — _____ |
| 3. MACK MP3 MAXI DYNE 455 HP @ 1,500 RPM 1,650 FT LB @ 1,200 RPM | \$ — _____ |
| 4. DETROIT DIESEL DD13 12.8L 450 HP @ 1800 RPM, 1,650 FT LB @ 1100 RPM | \$ — _____ |
| 5. PACCAR 12.9L MX340, 455 HP @1700 RPM, 1650 FT LB @1000 RPM | \$ — _____ |

ENGINE TYPE International N13 (Navistar)

MANUFACTURER/MODEL International 7600

DEDUCT FOR OPTIONS:

- | | |
|--|------------------------|
| 1. REMOVE LEFT OR RIGHT FRONT DRIVER CONTROLLED OVERLOAD AIR BAG | (<u>\$475.00</u>) |
| 2. REMOVE SOFTWARE REQUIREMENT | (<u>\$44,325.00</u>) |

ADD / DEDUCT FOR REQUESTED EQUIPMENT SUBSTITUTION PACKAGE

ADD: 1 EACH ALLISON HOSE KIT #329130-1X.

1 EACH MFG. CHELSEA PTO Model 890HAFJW-B5AF.

* 1 EACH MFG PARKER Model #PGP330B197***AB20-98KPAB20-1 double sealed Tandem pump.

OR

1 EACH MFG PERMCO Model #P2100D086NGX12087AZA20-1 double sealed Tandem pump.

REMOVE 1 EACH MFG CHELSEA WET SPLINE MODEL #277XBFJW-B5AF TO INCLUDE HOSE KIT #329130-1X TO INCLUDE HYDRAULIC PUMP PARKER PUMP # MODEL #324-9110-448, (PART OF STANDARD SPECIFICATION, SEE #55,000 SPEC - TRANSMISSION **

\$4,525.00 OR (\$3,099.00)

VENDOR CONTACT INFORMATION:

The following information is for this office to be able to contact a person knowledgeable of your bid response, and who can answer questions regarding it:

James Ramsay

Contact Person

603-623-8873

Local Telephone Number

800-562-3814

Toll Free Telephone Number

603-623-0653

Fax Number

jim@libertyinternationaltrucks.com

E-mail Address

www.libertyinternationaltrucks.com

Company Website

Liberty International Trucks of NH, LLC

Vendor Company Name

1400 South Willow St. Manchester NH 03103

Vendor Address

STATE OF NEW HAMPSHIRE
 NH SPECIFICATION NO. 2016-48 DOT
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF MECHANICAL SERVICES

STANDARD SPECIFICATION – 2016 TRUCK, CAB & CHASSIS –36,000 #

GROSS VEHICLE WEIGHT RATING MINIMUM 36,000 POUNDS

CAB

- CONVENTIONAL 3-POINT ACCESS CAB, ADDITIONAL GRAB HANDLE TO BE MOUNTED ON THE EXTERIOR OF DRIVER AND PASSENGER SIDE CAB CORNERS
- BUTTERFLY HOOD OR HATCHES TO ALL SERVICE POINTS
- STATIONARY GRILLE
- DUAL FACTORY INSTALLED 7" FENDER MOUNTED HEATED CONVEX MIRRORS
- ONE PIECE WINDSHIELD
- DRIVER AND PASSENGER DOOR OPERATING VENT WINDOWS OR FACTORY INSTALLED VENT SHADES
- CAB NOISE SUPPRESSION ON INSIDE OF FIREWALL AND ENGINE COMPARTMENT AND ADDITIONAL FRONT DIRECTIONAL TURN SIGNAL LIGHTS TO BE MOUNTED ON TOP OF OR IN FENDERS.
- INNER FENDER SPLASH GUARDS
- CAB SUSPENSION TO BE AIR BAG TYPE
- AUX. HEADLIGHT HARNESS SWITCHED IN CAB TO FRONT OF VEHICLE FOR PLOW LIGHTS & TURN SIGNALS CONSISTING OF THREE (3) EA. # 1157 BULBS ON EACH SIDE
- RUBBER FENDER EXTENSIONS
- OUTSIDE AIR / TEMPERATURE MONITOR
- WIPER FORCED TO INTERMITTENT WHEN SERVICE BRAKE IS APPLIED

CAB HEIGHT MINIMUM 59-1/2" (EXTERIOR FRAME TO TOP OF CAB)

CAB – AXLE DIMENSION 88" USABLE

BBC DIMENSION 107" – 110"

TRANSMISSION

- ALLISON AUTOMATIC – 3500 RDS, FIVE SPEED, PRE SELECT FOR SELECT ONE (1) GEAR DOWN VARIABLE COMPRESSION ENGINE BRAKE 3RD GEAR HOLD WITHOUT (LBSS) LOAD BASED SHIFT SCHEDULE
- RIGHT SIDE DASH MOUNTED TOUCH PAD CONTROL
- AUTO NEUTRAL WHEN PARKING BRAKE IS APPLIED
- INTEGRAL OIL LEVEL SENSOR
- TES 295 APPROVED SYNTHETIC FLUID
- EXTENDED TRANSMISSION WARRANTY COVERAGE- PARTS, LABOR AND TOWING FOR FIVE (5) YEARS, UNLIMITED MILEAGE FROM IN-SERVICE DATE (DETERMINED BY STATE)
- AUXILIARY COOLING

PTO AND PUMP

- ALSO INCLUDED: DRIVERS SIDE INSTALLED CHELSEA WET SPLINE PTO MODEL #277XGFJW-B5AF TO INCLUDE HOSE KIT #329130-1 AND A HYDRAULIC PUMP THAT SHALL BE A PARKER MODEL #324-9110-448
- A FACTORY IN DASH ILLUMINATED SWITCH SHALL BE INSTALLED, LABELED "PTO". **THE SOURCE OF THE POWER SHALL BE THROUGH THE VEHICLE'S BODY CONTROLLER**

COOLING

- HEAVY DUTY WITH LONG LIFE ANTIFREEZE AND A COOLANT RECOVERY TANK
- AIR CONDITIONING TO BE FACTORY INSTALLED

BATTERY & ALTERNATOR

- THREE (3) -BATTERIES EACH HAVING 180 AMP HOUR RATING (9N COMBINATION) WITH 2,775 CCA, **LOCATION DETERMINED BY STATE**
- DELCO 24 SI OR LEECE-NEVILLE 160 AMP ALTERNATOR
- BATTERY BOX MOUNTED FOR CLEAN C.A. IF AVAILABLE

BRAKES

- POWER - ABS, ALL WHEEL, AIR BRAKES, CAM
- AIR BRAKE PROVISIONS TO REAR OF CHASSIS
- COMPRESSOR CAPACITY (13 CUBIC FT. MIN.)
- AUTOMATIC SLACK ADJUSTERS FRONT AND REAR
- ANCHORLOCK PARKING BRAKE (OR EQUIVALENT), MGM BRAND, MERITOR OR **BENDIX** SEALED LONG STROKE CHAMBERS WITH STAINLESS STEEL PINS

- ADIP AIR DRYER LOCATED ON OUTSIDE OF FRAME **LOCATION DETERMINED BY STATE**
- DUST SHIELDS – ALL WHEELS

ENGINE – DIESEL

- INTERNATIONAL N9 300 HP @ 2,000 RPM, 860 FT LB @ 1,200 RPM
- CUMMINS ISL 8.9 300 HP @ 2,200 RPM, 860 FT LB @ 1,300 RPM
- PACCAR PX-9 300 HP @ 2200 RPM, 860 FT LB @ 1400 RPM
- SHALL INCLUDE ENGINE BRAKE
- FUEL/ WATER SEPARATOR LOCATED ON OUTSIDE OF FRAME OR UNDER HOOD
- FUEL FILTER,
- 2 POSITION PROGRAMMABLE STEP UP THROTTLE (**PRE-SET AT 1,000 RPM & 1,200 RPM**)
- AUDIBLE ALARM
- STEEL, CAST ALUMINUM **OR A COMPOSITE** SUMP OIL PAN
- DEF TANK MIN SIX (6) GALLON, LOCATION TO BE DETERMINED BY STATE.

EXTENDED ENGINE WARRANTY

- A **FIVE (5) YEAR, OR 6,000 HOUR** 100% PARTS, LABOR AND TOWING WARRANTY SHALL COVER COMPUTERS, MODULES, ELECTRICAL CONNECTIONS, CONNECTORS, WIRING HARNESSSES, INJECTORS, INJECTOR LINES, TURBOS, WATER PUMPS, FUEL FILTER ASSY, STARTERS, CLUTCH FANS, ALTERNATORS, OIL AND FUEL PRESSURE PUMPS, OIL AND WATER SEALS, ALL ENGINE MECHANICAL PARTS AND EMISSION RELATED COMPONENTS. MAINTENANCE COMPONENTS SUCH AS BELTS, HOSES AND FILTERS ARE EXCLUDED. WARRANTIES TO BEGIN ON THE IN-SERVICE DATE OF THE CHASSIS **AS DEFINED** BY THE STATE.

EXTENDED BASE CHASSIS WARRANTY

- A FIVE (5) YEAR OR 100,000 MILE CHASSIS WARRANTY SHALL CONSIST OF BUT NOT LIMITED TO
- CLIMATE CONTROL SYSTEM COVERING THE HEAT AND AC SYSTEM, ELECTRICAL COMPONENTS, LINES WIRING, AMBIENT AIR TEMPERATURE SENSOR, AND RECEIVER DRYER.
- COOLING SYSTEM
- SUSPENSION FRONT AND REAR
- STEERING SYSTEM
- STARTER & ALTERNATOR
- DRIVELINES
- CHASSIS WIRING AND CONNECTORS
- GAUGES AND SWITCHES
- CHARGE AIR COOLER
- AIR SYSTEM
- BRAKING SYSTEM
- INTERIOR COMPONENTS
- FACTORY INSTALLED ACCESSORIES

STEERING

- HYDRAULIC POWER STEERING WITH DUAL STEERING BOXES
- STEERING WHEEL DIAMETER MINIMUM 16" WITH TILT ADJUSTABLE COLUMN

ELECTRICAL

- ALL ELECTRONIC CONTROLLERS, EXCEPT ENGINE ECM **AND THE TRANSMISSION CONTROL MODULE**, TO BE LOCATED IN THE CAB **AND** NOT TO INTERFERE WITH SPACE BETWEEN SEATS,
- SINGLE HARNESS IN TRUCK FOR VEHICLE SPEED AND GROUND SPEED SENSING.
- AUX. PARK BRAKE ALARM
- HEADLIGHTS ON W/WIPERS
- CB RADIO PREP PACKAGE WITH 2 FT. SPRING MOUNTED ANTENNA (S)
- 12V ACCESSORY PORT
- PRE-WIRED CIRCUIT FOR ELECTRIC TRAILER BRAKES
- SEVEN WIRE HARNESS TO REAR OF FRAME FOR A TWO (2) LIGHT (COMBINATION STOP/TURN/TAIL) SYSTEM WITH A PACKARD CONNECTOR #12124685 & #12124686 INSTALLED AND A SUPPLIED PHILLIPS STA-DRY PLUG ASSY PART # 48NA33-036
- **A MINIMUM OF SIX OPTIONAL IN-DASH SWITCHES WITH INDICATOR LIGHTS SHALL BE PROVIDED, KEY POWERED AND TERMINATING @ FIREWALL ARRANGED AND LABELED IN THE FOLLOWING CONFIGURATION. FIVE SWITCHES SHALL BE ARRANGED AND MARKED "PTO", "SPREADER LIGHT", "LEFT SPREADER LIGHT", "RIGHT SPREADER LIGHT", "PTO OVERIDE SWITCH", ONE SWITCH MARKED SPARE. TWO INDICATOR LIGHTS SHALL BE PROVIDED FOR THE "BODY UP (RED)", "HYDRAULIC LOW OIL AND "HI-TEMPERATURE SHUTDOWN (RED)".**

Chassis Manufacturing on Site Support

SPREADER LIGHT

1. Depressed, if the switch is activated and the output is good the green indicator light in the switch will illuminate steady on.
2. If the switch is activated and the output is bad the green indicator light in the switch will flash. The output is tied to the exterior lamp check. When the exterior lamp check is requested this output will be on.

LOW OIL INDICATOR

1. To give the operator a warning the hydraulic oil is low.
2. The body company will provide a ground signal to the Remote Power Module (RPM). When this signal is received the cluster beep will sound and the red light in the dash will be on steady indicating low oil in the reservoir.
3. When the hydraulic oil is high in temperature over 200 degree Fahrenheit the same oil indicator light will flash quickly and shut down the PTO at a pre-determined time.

PTO

1. When the switch is activated the letters PTO light up in the instrument cluster alerting the operator that the PTO is on. PTO activation requires the engine speed to be less than 900RPM No other engagement conditions are required.
2. The PTO will automatically dis-engage if any of the following are active
3. PTO switch is off
4. Low oil input signal active
5. Engine speed is greater than 2500 RPM
6. Ignition key is off
7. Hi-Temp is active and the timer has expired. It has a low oil shutdown feature built into it that when the oil level indicator is activated it automatically shuts off the PTO. There is an override switch located in the dash. This is will be a momentary over ride switch. The override switch will allow for PTO operation as long as the switch is held down. The override function will only work once. To allow the override function a second time the key must be cycled.

FAULT DETECTION MANAGEMENT

1. The fault detection management for the PTO switch is an indicator light built into the switch it will flash fast green when there is a fault with the PTO output. The virtual fusing is set for 20 amps.

REAR STROBES

1. The requirement is that the rear strobe lights be OFF when the right or left turn signals are active. The strobe lights are controlled by the Whelen module. When the right or left turn signal is active the output to the strobes is canceled. The function works with key on or off.

BODY UP

1. A ground signal will be returned to the RPM from a customer installed switch on the body determined by the State. When the ground signal is true the RED indicator light in the center panel will illuminate. If the signal is true and the vehicle speed reaches 5mph the cluster beeper will sound alerting the operator that the body is still up.

BACK UP CAMERA

1. Key ignition powered.
2. When the vehicle is engaged into reverse the camera will automatically activate and turn on. When put into drive the camera will automatically turn off unless you have powered the monitor on manually.

SUSPENSION

FRONT AXLE

- 16,000 # WITH WET TYPE OIL SEALS

FRONT SPRINGS

- 16,000 # COMBINED RATING @ GROUND, MULTI-LEAF, SEMI-ELLIPTIC
- NOTE: IF SETBACK FRONT AXLE IS OFFERED, ADD 2,000 # TO MAIN SPRING/AXLE GROUND RATING
- RIGHT OR LEFT FRONT (AS SPECIFIED) DRIVER CONTROLLED AIR BAG OVERLOAD

REAR AXLE

- 23,000 # EATON, MERITOR OR SPICER, MINIMUM 18" RING GEAR
- DRIVER CONTROLLED LOCKING DIFFERENTIAL
- SINGLE SPEED AXLE (RATIO TO BE DETERMINED BY USING AGENCY)

REAR SPRINGS

- 30,000 # TOTAL COMBINED RATING @ GROUND, INCLUDES REAR MAIN MULTI LEAF, AND 2,250 # AUXILIARY SPRINGS

DRIVELINE

- SPICER SERIES 1710 SERIES

TIRES: TYPE, WHEEL/TIRE SIZE

- **SIX (6)** – HEAVY DUTY ACCURIDE 24.5" X 8.25", POWDER COATED STEEL, HUB PILOTED, 0.472" DISC WHEELS WITH GUARDS FRONT & REAR
- SIX (6) – 11R24.5 (H) TUBELESS RADIALS
- WHEEL WRENCH AND HANDLE

ACCEPTABLE BRAND TIRES**FRONT**

- GOODYEAR G287 MSA, GOODYEAR G751 MSA OR MICHELIN XZY-3

REAR

- GOODYEAR G282 MSD OR MICHELIN XDS-2

FRAME

- HEAT TREATED ALLOY STEEL FRAME WITH MINIMUM YIELD STRENGTH OF 120,000 PSI AND MINIMUM SECTION MODULUS OF 20.6
- 1 PIECE, FULL DEPTH FRAME TO EXTEND A MINIMUM OF 12" BEYOND FRONT OF GRILLE.
- AF-MINIMUM 48"
- **EXCLUDING FUEL TANK INTRUSION**, BOTH OUTSIDE FRAME RAILS TO BE FREE OF OBSTRUCTIONS FOR TWENTY FOUR (24) INCHES BEHIND THE CAB TO ALLOW ROOM FOR MOUNTING A WING CABINET **NO CROSSMEMBER IN SAME TWENTY FOUR INCH (24") AREA.**
- MINIMAL OBSTRUCTIONS FOR NEXT THIRTY (30) INCHES FOR PIPE BRACES

INSTRUMENTS/CONTROLS

- SPEEDOMETER, TACHOMETER, AMMETER/VOLT-METER, FUEL GAUGE (S), OIL PRESSURE GAUGE, TEMPERATURE GAUGE AND AIR PRESSURE GAUGE
- ALL NECESSARY ELECTRICAL SWITCHES
- HOUR METER, ACTUATED BY ENGINE OPERATION
- DASH MOUNTED AIR RESTRICTION INDICATOR

FUEL SUPPLY

- STAINLESS STEEL OR ALUMINUM TANK WITH STAINLESS STEEL STRAPS HAVING A MINIMUM CAPACITY OF 70 GALLONS
- STEP TYPE FUEL TANK. NOT TO EXCEED **8"** BEYOND REAR OF CAB

EXHAUST SYSTEM

- HORIZONTAL, VERTICAL (OR COMBINATION) MUFFLER SYSTEM SHALL BE CONFIGURED NOT TO INTERFERE WITH PTO'S OR HYDRAULIC CABLES.
- STACK (INCLUDING 90 DEGREE TURN OUT) MUST NOT EXTEND ABOVE TOP OF CAB. AND NOT TO EXCEED 4" BEYOND REAR OF CAB.

PAINT

- CLEAR COAT OMAHA ORANGE (SAME AS DUPONT DULUX 93-082) LEAD FREE
- NOTE: SEE INDEPENDENT PAINT TESTING REQUIREMENTS AS PART OF THIS SPECIFICATION

RADIO/SPEAKERS (FACTORY)

- AM/FM WITH WEATHER BAND

SEATS-DRIVER/PASSENGER

- BUCKET, AIR SUSPENSION, HIGH BACK, HEAD REST, DRIVER'S ARM REST (RH) (NATIONAL CUSHION-AIRE OR EQUAL), HD CLOTH MORDURA, MILLIKEN (NGV) OR EQUAL.

FLOOR COVER

- VINYL WITH FACTORY RUBBER AUXILIARY MATS

LIGHTING, REQUIRED

- DAYTIME RUNNING, PRE-TRIP INSPECTION LIGHT TEST

MIRRORS, OUTSIDE RIGHT AND LEFT

- HEATED 6" X 15" EXTENDING TO 96" WITH A HEATED 7" CONVEX MIRROR
- PASSENGER SIDE "LOOK DOWN" CONVEX MIRROR

BUMPERS -FRONT

- NONE REQUIRED

BACK UP ALARM

- ELECTRIC

HORNS

- AIR AND ELECTRIC – DUAL NOTE, BOTH MOUNTED UNDER CAB

TOW PACKAGE

- TRAILER TOW PACKAGE SHALL BE PROVIDED AND INCLUDE TRAILER LIGHT PACKAGE, HAND OPERATED CONTROL VALVE, AND AIR LINES TO REAR OF FRAME

SOFTWARE

- DIAGNOSTIC SOFTWARE AND ALL REQUIRED LAPTOP COMPUTER CABLES AND OR CONNECTIONS FOR DIAGNOSIS OF ENGINE (INCLUDING KEY ON AND KEY OFF TEST, CYLINDER CUT OUT TEST, INJECTOR DISABLE TEST), CHASSIS & ELECTRICAL SYSTEM, AND ABS SYSTEM. LATEST VERSION OF ALLISON TRANSMISSION SOFTWARE SHALL BE PROVIDED FOR PROGRAMMING WITH ONE DAY ON SITE (DOT) PROGRAMMING INSTRUCTION.
- ALL SOFTWARE TO INCLUDE FREE UPDATES AND RENEWALS OF ALL SUBSCRIPTIONS FOR A PERIOD OF TEN (10) YEARS BEYOND MODEL YEAR. THIS SPECIFICATION SHALL REQUIRE A QUANTITY OF NINE (9 EACH) COMPLETE SETS OF THE ABOVE SOFTWARE BE SUPPLIED AND DELIVERED TO NHDOT MECHANICAL SERVICES AS PART OF THIS SOLICITATION AND INCLUDED IN THE UNIT COST.

SYSTEMS CALIBRATIONS

UPON FINAL AWARD, THE SUCCESSFUL VENDOR WILL PRESENT A COMPLETE LIST OF DEFAULT ENGINE, ELECTRICAL, FUEL AND TRANSMISSION SYSTEM CALIBRATIONS FOR REVIEW AND ADJUSTMENT WITH THE END USER

SERVICE AND PARTS MANUALS

- FOR THE LIFE OF THE VEHICLE (S), THE AWARDED BIDDER SHALL PROVIDE WEB BASED ACCESS TO ALL TRUCK-SPECIFIC SERVICE MANUALS, TECHNICAL SPECIFICATIONS AND PARTS CATALOGS FOR A MINIMUM OF **NINE (9)** NHDOT VEHICLE MAINTENANCE LOCATIONS.

APPLICATION: THIS SPECIFICATION COVERS THE STATE OF NEW HAMPSHIRE'S MINIMUM REQUIREMENT FOR A VOCATIONAL CAB & CHASSIS, INTENDED FOR THE SOLE PURPOSE OF PLOWING, SANDING AND OTHER HIGHWAY MAINTENANCE OPERATIONS. TO FACILITATE THE MOUNTING OF PLOW EQUIPMENT, AMPLE SPACE MUST BE AVAILABLE FOR LEFT AND RIGHT POWER TAKE OFFS. CLEAR SPACE BENEATH AND TO THE REAR OF THE CAB FOR HYDRAULIC CABLES AND WING CABINET. ALL EXPOSED CONNECTIONS SHALL BE SEALED AND 100% WATER TIGHT. THE MANUFACTURER WILL BE SOLELY RESPONSIBLE FOR MEETING THIS REQUIREMENT.

- **EACH VEHICLE SHALL COME WITH A VALID STATE OF NH INSPECTION STICKER AND TEMPORARY REGISTRATION**

STANDARD SPECIFICATION -2016 TRUCK, CAB & CHASSIS -55,000 #

GROSS VEHICLE WEIGHT RATING MINIMUM 55,000 POUNDS

- CAB**
- CONVENTIONAL 3-POINT ACCESS CAB, ADDITIONAL GRAB HANDLE TO BE MOUNTED ON THE EXTERIOR OF DRIVER **AND PASSENGER** SIDE CAB CORNERS
 - BUTTERFLY HOOD OR HATCHES TO ALL SERVICE POINTS
 - STATIONARY GRILLE
 - DUAL FACTORY INSTALLED 7" FENDER MOUNTED HEATED CONVEX MIRRORS
 - ONE PIECE WINDSHIELD
 - DRIVER AND PASSENGER DOOR OPERATING VENT WINDOWS OR FACTORY INSTALLED VENT SHADES
 - CAB NOISE SUPPRESSION ON INSIDE OF FIREWALL AND ENGINE COMPARTMENT
 - ADDITIONAL FRONT DIRECTIONAL TURN SIGNAL LIGHTS TO BE MOUNTED ON TOP OF OR IN FENDERS
 - INNER FENDER SPLASH GUARDS
 - CAB SUSPENSION TO BE AIR BAG TYPE.
 - AUX. HEADLIGHT HARNESS SWITCHED IN CAB TO FRONT OF VEHICLE FOR PLOW LIGHTS & TURN SIGNALS CONSISTING OF THREE (3) EA. # 1157 BULBS ON EACH SIDE
 - RUBBER FENDER EXTENSIONS
 - OUTSIDE AIR / TEMPERATURE MONITOR
 - WIPER FORCED TO INTERMITTENT WHEN SERVICE BRAKE IS APPLIED

CAB HEIGHT MINIMUM 59-1/2" (EXTERIOR FRAME TO TOP OF CAB)

CAB - TRUNION DIMENSION MIN 120" TO MAX 126"

BBC DIMENSIONS MIN 105" TO MAX 117"

- TRANSMISSION**
- **ALLISON** AUTOMATIC - 4500 RDS, SIX SPEED, PRE SELECT FOR SELECT ONE (1) GEAR DOWN VARIABLE COMPRESSION ENGINE BRAKE 3RD GEAR HOLD WITHOUT (LBSS) LOAD BASED SHIFT SCHEDULE
 - RIGHT SIDE DASH MOUNTED TOUCH PAD CONTROL
 - AUTO NEUTRAL WHEN PARKING BRAKE IS APPLIED
 - INTEGRAL OIL LEVEL SENSOR
 - TES 295 APPROVED SYNTHETIC FLUID
 - EXTENDED TRANSMISSION WARRANTY COVERAGE- PARTS, LABOR AND TOWING FOR FIVE (5) YEARS, UNLIMITED MILEAGE FROM IN-SERVICE DATE (DETERMINED BY STATE)
 - AUXILIARY COOLING

- PTO AND PUMP**
- ALSO INCLUDED: DRIVERS SIDE INSTALLED CHELSEA WET SPLINE PTO MODEL #277XBFJW-B5AF TO INCLUDE HOSE KIT #329130-1X AND A HYDRAULIC PUMP THAT SHALL BE A PARKER PUMP # MODEL #324-9110-448
 - A FACTORY IN DASH ILLUMINATED SWITCH SHALL BE INSTALLED, LABELED "PTO". **THE SOURCE OF POWER SHALL BE THROUGH THE VEHICLE'S BODY CONTROLLER**

- COOLING**
- HEAVY DUTY WITH LONG LIFE ANTIFREEZE AND A COOLANT RECOVERY TANK
 - AIR CONDITIONING TO BE FACTORY INSTALLED

- BATTERY & ALTERNATOR**
- THREE (3), 12-VOLT-BATTERIES EACH HAVING 180 AMP HOUR RATING WITH 2775 CCA
 - DELCO 28 SI, BOSCH LH160, OR LEECE-NEVILLE 160 AMP ALTERNATOR WITH MINIMUM 25 AMP OUT @ 1,250 RPM
 - **BATTERY BOX MOUNTED FOR CLEAN C.A. IF AVAILABLE OR LOCATION TO BE DETERMINED BY STATE.**

- BRAKES**
- POWER - ABS, ALL WHEEL, AIR BRAKES, CAM
 - AIR BRAKE PROVISIONS TO REAR OF CHASSIS
 - COMPRESSOR CAPACITY (13 CUBIC FT. MIN.)
 - AUTOMATIC SLACK ADJUSTERS FRONT AND REAR

- ANCHORLOCK PARKING BRAKE (OR EQUIVALENT), MGM BRAND, **BENDIX** OR HALDEX SEALED LONG STROKE CHAMBERS WITH STAINLESS STEEL PINS
- ADIP AIR DRYER LOCATED ON OUTSIDE OF FRAME **LOCATION DETERMINED BY STATE**
- DUST SHIELDS – ALL WHEELS

ENGINE – DIESEL

- INTERNATIONAL N13L, 410 HP @1,700 RPM, 1,450 FT LB @ 1,000 RPM
- CUMMINS ISX 12L, 400 HP @ 2,100 RPM, 1,450 FT LB @ 1,200 RPM
- MACK MP7- 405M MAXIDYNE, 405 HP @ 1,500 RPM 1,480 FT LB @ 1,200 RPM
- DETROIT DIESEL DD13, 12.8L, 410 HP @ **1,625** RPM, 1,550 FT LB @ **975** RPM
- PACCAR MX, 13.0L, 405 HP @1900 RPM, 1450 FT LB @ 1100 RPM
- VARIABLE COMPRESSION ENGINE BRAKE
- FUEL/WATER SEPARATOR LOCATED ON OUTSIDE OF FRAME OR UNDER HOOD
- FUEL FILTER
- ENGINE BLOCK HEATER
- 2 POSITION PROGRAMMABLE STEP UP THROTTLE (**PRE-SET AT 1,000 RPM & 1,200 RPM**)
- AUDIBLE ALARM
- STEEL, CAST ALUMINUM **OR A COMPOSITE** SUMP OIL PAN
- DEF TANK MIN SIX (6) GALLON, LOCATION TO BE DETERMINED BY STATE.

EXTENDED ENGINE WARRANTY

- A SEVEN (7) YEAR, OR 8,000 HOUR 100% PARTS, LABOR AND 5 YEAR TOWING WARRANTY SHALL COVER COMPUTERS, MODULES, ELECTRICAL CONNECTIONS, CONNECTORS, WIRING HARNESSSES, INJECTORS, INJECTOR LINES, TURBOS, FUEL FILTER ASSY, WATER PUMPS, STARTERS, CLUTCH FANS, ALTERNATORS, OIL AND FUEL PRESSURE PUMPS, OIL AND WATER SEALS, ALL ENGINE MECHANICAL PARTS AND EMISSION RELATED COMPONENTS. MAINTENANCE COMPONENTS SUCH AS BELTS, HOSES AND FILTERS ARE EXCLUDED. WARRANTIES TO BEGIN ON THE IN-SERVICE DATE OF THE CHASSIS **AS DEFINED** BY THE STATE.

EXTENDED BASE CHASSIS WARRANTY

- **A SEVEN (7) YEAR OR 150,000 MILE CHASSIS WARRANTY SHALL CONSIST OF BUT NOT LIMITED TO**
- **CLIMATE CONTROL SYSTEM COVERING THE HEAT AND AC SYSTEM, ELECTRICAL COMPONENTS, LINES WIRING, AMBIENT AIR TEMPERATURE SENSOR, AND RECEIVER DRYER.**
- **COOLING SYSTEM**
- **SUSPENSION FRONT AND REAR**
- **STEERING SYSTEM**
- **STARTER & ALTERNATOR**
- **DRIVELINES**
- **CHASSIS WIRING AND CONNECTORS**
- **GAUGES AND SWITCHES**
- **CHARGE AIR COOLER**
- **AIR SYSTEM**
- **BRAKING SYSTEM**
- **INTERIOR COMPONENTS**
- **FACTORY INSTALLED ACCESSORIES**

STEERING

- HYDRAULIC POWER STEERING WITH DUAL STEERING BOXES
- STEERING WHEEL DIAMETER MINIMUM 18" WITH TILT ADJUSTABLE COLUMN

ELECTRICAL

- ALL ELECTRONIC CONTROLLERS, EXCEPT ENGINE ECM **AND THE TRANSMISSION CONTROL MODULE**, TO BE LOCATED IN THE CAB **AND** NOT TO INTERFERE WITH SPACE BETWEEN SEATS
- SINGLE HARNESS IN TRUCK FOR VEHICLE SPEED AND GROUND SPEED SENSING
- **A MINIMUM OF SIX OPTIONAL IN-DASH SWITCHES AND INDICATOR LIGHTS, KEY POWERED, TERMINATING @ FIREWALL ARRANGED AND LABELED IN THE FOLLOWING CONFIGURATION "PTO", "SPREADER LIGHT", "RIGHT SPREADER LIGHT", "BODY UP LIGHT (RED)", "HYDRAULIC SHUTDOWN (RED)", "PTO OVERRIDE SWITCH".**
- AUX PARK BRAKE ALARM
- HEADLIGHTS ON W/WIPERS
- CB RADIO PREP PACKAGE WITH 2 FT. SPRING MOUNTED ANTENNA (S)
- 12V ACCESSORY PORT. PRE-WIRED CIRCUIT FOR ELECTRIC TRAILER BRAKES

- SEVEN WIRE HARNESS TO REAR OF FRAME FOR A FOUR (4) LIGHT (ALL RUNNING LIGHTS WITH SEPARATE STOP AND TURN SIGNAL) SYSTEM WITH A PACKARD CONNECTOR #12124685 & #12124686 INSTALLED AND A SUPPLIED PHILLIPS STA-DRY PLUG ASSY PART # 48NA33-036

Chassis Manufacturing on Site Support

SPREADER LIGHT

1. Depressed, if the switch is activated and the output is good the green indicator light in the switch will illuminate steady on.
2. If the switch is activated and the output is bad the green indicator light in the switch will flash. The output is tied to the exterior lamp check. When the exterior lamp check is requested this output will be on.

LOW OIL INDICATOR

1. To give the operator a warning the hydraulic oil is low.
2. The body company will provide a ground signal to the Remote Power Module (RPM). When this signal is received the cluster beep will sound and the red light in the dash will be on steady indicating low oil in the reservoir.
3. When the hydraulic oil is high in temperature over 200 degree Fahrenheit the same oil indicator light will flash quickly and shut down the PTO at a pre-determined time.

PTO

1. When the switch is activated the letters PTO light up in the instrument cluster alerting the operator that the PTO is on. PTO activation requires the engine speed to be less than 900RPM No other engagement conditions are required.
2. The PTO will automatically dis-engage if any of the following are active
3. PTO switch is off
4. Low oil input signal active
5. Engine speed is greater than 2500 RPM
6. Ignition key is off
7. Hi-Temp is active and the timer has expired. It has a low oil shutdown feature built into it that when the oil level indicator is activated it automatically shuts off the PTO. There is an override switch located in the dash. This is will be a momentary override switch. The override switch will allow for PTO operation as long as the switch is held down. The override function will only work once. To allow the override function a second time the key must be cycled.

FAULT DETECTION MANAGEMENT

1. The fault detection management for the PTO switch is an indicator light built into the switch it will flash fast green when there is a fault with the PTO output. The virtual fusing is set for 20 amps.

REAR STROBES

1. The requirement is that the rear strobe lights be OFF when the right or left turn signals are active. The strobe lights are controlled by the Whelan module. When the right or left turn signal is active the output to the strobes is canceled. The function works with key on or off.

BODY UP

2. A ground signal will be returned to the RPM from a customer installed switch on the body determined by the State. When the ground signal is true the RED indicator light in the center panel will illuminate. If the signal is true and the vehicle speed reaches 5mph the cluster beeper will sound alerting the operator that the body is still up.

BACK UP CAMERA

1. Key ignition powered.
2. When the vehicle is engaged into reverse the camera will automatically activate and turn on. When put into drive the camera will automatically turn off unless you have powered the monitor on manually.

SUSPENSION

FRONT AXLE

- 20,000 # WITH WET TYPE OIL SEALS

FRONT SPRINGS

- 20,000 # COMBINED RATING @ GROUND, MULTI-LEAF SEMI-ELLIPTIC

REAR AXLE

- 46,000 # DANA DD463P, MERITOR MT46-160P, MACK S462 AXLES (RATIO TO BE DETERMINED BY USING AGENCY) HENDRICKSON HMX-460-54 SUSPENSION
- MANUALLY CONTROLLED INTER-AXLE POWER DIVIDER LOCKOUT SHALL BE FURNISHED WITH EATON, MERITOR OR MACK AXLES
- WARNING LIGHT TO BE PROVIDED TO INDICATE LOCKOUT ENGAGEMENT
- REARWARD TANDEM, DRIVER CONTROLLED DIFFERENTIAL LOCK

TIRES: TYPE, WHEEL/TIRE SIZE

- **TEN (10)** – HEAVY DUTY ACCURIDE 24.5" X 8.25", POWDER COATED STEEL, HUB PILOTED, 0.472" DISC WHEELS WITH GUARDS F&R
- TEN (10) 11R24.5(H) TUBELESS RADIALS
- WHEEL WRENCH AND HANDLE

ACCEPTABLE BRAND TIRES**FRONT**

- GOODYEAR G287 MSA, GOODYEAR G751 MSA OR MICHELIN XZY-3

REAR

- GOODYEAR G282 MSD OR MICHELIN XDS-2

FRAME

- HEAT TREATED ALLOY STEEL FRAME WITH MINIMUM YIELD STRENGTH OF 120,000 PSI AND MINIMUM SECTION MODULUS OF 20.6.
- 1 PIECE FULL DEPTH FRAME TO EXTEND A MINIMUM OF 12" BEYOND FRONT OF GRILLE
- AF-MINIMUM 48"
- **EXCLUDING FUEL TANK INTRUSION**, BOTH OUTSIDE FRAME RAILS TO BE FREE OF OBSTRUCTIONS FOR TWENTY FOUR (24) INCHES BEHIND THE CAB TO ALLOW ROOM FOR MOUNTING A WING CABINET **NO CROSS MEMBER IN SAME TWENTY FOUR INCH (24") SPACE**
- MINIMAL OBSTRUCTIONS FOR THE NEXT THIRTY (30) INCHES FOR PIPE BRACES

INSTRUMENTS/CONTROLS

- SPEEDOMETER, TACHOMETER, AMMETER/VOLT-METER, FUEL GAUGE (S), OIL PRESSURE GAUGE, TEMPERATURE GAUGE, AIR PRESSURE GAUGE WITH LOW PRESSURE WARNING
- ALL NECESSARY ELECTRICAL SWITCHES
- HOUR METER ACTUATED BY ENGINE OPERATION
- DASH MOUNTED AIR RESTRICTION INDICATOR

FUEL SUPPLY

- STAINLESS STEEL OR ALUMINUM TANK WITH STAINLESS STEEL STRAPS HAVING A MINIMUM CAPACITY OF 80 GALLON
- STEP TYPE FUEL TANK. NOT TO EXCEED 8" BEYOND REAR OF CAB

EXHAUST SYSTEM

- HORIZONTAL, VERTICAL (OR COMBINATION) MUFFLER SYSTEM SHALL BE CONFIGURED NOT TO INTERFERE WITH PTO'S OR HYDRAULIC CABLES
- STACK (INCLUDING 90 DEGREE TURN OUT) MUST NOT EXTEND ABOVE TOP OF CAB AND NOT TO EXCEED 4" BEYOND REAR OF CAB

PAINT

- CLEAR COAT OMAHA ORANGE (DUPONT DULUX 93-082 OR EQUIVALENT) LEAD FREE
- NOTE: SEE INDEPENDENT PAINT TESTING REQUIREMENTS AS PART OF THIS SPECIFICATION

RADIO/SPEAKERS (FACTORY)

- AM/FM WITH WEATHER BAND

SEATS-DRIVER/PASSENGER

- BUCKET, AIR SUSPENSION, HIGH BACK, HEAD REST, DRIVER'S ARM REST (RH) (NATIONAL CUSHION-AIRE OR EQUAL), HD CLOTH MORDURA, MILLIKEN (NGV) OR EQUAL.

FLOOR COVER

- VINYL WITH FACTORY RUBBER AUXILIARY MATS

LIGHTING, REQUIRED

- DAYTIME RUNNING, PRE-TRIP INSPECTION LIGHT TEST

MIRRORS, OUTSIDE RIGHT AND LEFT

- 6" X 15" EXTENDING TO 102" WITH A HEATED 7" CONVEX MIRROR
- PASSENGER SIDE "LOOK DOWN" CONVEX MIRROR

BUMPERS -FRONT

- NONE REQUIRED

BACK UP ALARM

- ELECTRIC

HORN

- AIR AND ELECTRIC – DUAL NOTE

TOW PACKAGE

- TRAILER TOW PACKAGE SHALL BE PROVIDED AND INCLUDE TRAILER LIGHT PACKAGE, HAND OPERATED CONTROL VALVE, AND AIR LINES TO REAR OF FRAME

SOFTWARE

- DIAGNOSTIC SOFTWARE AND ALL REQUIRED LAPTOP COMPUTER CABLES AND OR CONNECTIONS FOR DIAGNOSIS OF ENGINE (INCLUDING KEY ON AND KEY OFF TEST, CYLINDER CUT OUT TEST, INJECTOR DISABLE TEST), CHASSIS & ELECTRICAL SYSTEM, AND ABS SYSTEM. LATEST VERSION OF ALLISON TRANSMISSION SOFTWARE SHALL BE PROVIDED FOR PROGRAMMING WITH ONE DAY ON SITE (DOT) PROGRAMMING INSTRUCTION. ALL SOFTWARE TO INCLUDE FREE UPDATES AND RENEWALS OF ALL SUBSCRIPTIONS FOR A PERIOD OF TEN (10) YEARS BEYOND MODEL YEAR. THIS SPECIFICATION SHALL REQUIRE A QUANTITY OF NINE (9 EACH) COMPLETE SETS OF THE ABOVE SOFTWARE BE SUPPLIED AND DELIVERED TO NHDOT MECHANICAL SERVICES AS PART OF THIS SOLICITATION AND INCLUDED IN THE UNIT COST

SYSTEMS CALIBRATIONS

- UPON FINAL AWARD, THE SUCCESSFUL VENDOR WILL PRESENT A COMPLETE LIST OF DEFAULT ENGINE, ELECTRICAL, FUEL AND TRANSMISSION SYSTEM CALIBRATIONS FOR REVIEW AND ADJUSTMENT WITH THE END USER

SERVICE AND PARTS MANUALS

- FOR THE LIFE OF THE VEHICLE (S), THE AWARDED BIDDER SHALL PROVIDE WEB BASED ACCESS TO ALL TRUCK-SPECIFIC SERVICE MANUALS, TECHNICAL SPECIFICATIONS AND PARTS CATALOGS FOR A MINIMUM OF ELEVEN (11) NHDOT VEHICLE MAINTENANCE LOCATIONS.

APPLICATION: THIS SPECIFICATION COVERS THE STATE OF NEW HAMPSHIRE'S MINIMUM REQUIREMENT FOR A VOCATIONAL CAB & CHASSIS, INTENDED FOR THE SOLE PURPOSE OF PLOWING, SANDING AND OTHER HIGHWAY MAINTENANCE OPERATIONS. TO FACILITATE THE MOUNTING OF PLOW EQUIPMENT, AMPLE SPACE MUST BE AVAILABLE FOR LEFT AND RIGHT POWER TAKE OFFS. CLEAR SPACE BENEATH AND TO THE REAR OF THE CAB FOR HYDRAULIC CABLES AND WING CABINET. ALL EXPOSED CONNECTIONS SHALL BE SEALED AND 100% WATER TIGHT. THE MANUFACTURER WILL BE SOLELY RESPONSIBLE FOR MEETING THIS REQUIREMENT.

- EACH VEHICLE SHALL COME WITH A VALID STATE OF NH INSPECTION STICKER AND TEMPORARY REGISTRATION.

Standard Specification for Motor Vehicles

- 1.0** **Scope:**
This specification covers the State of New Hampshire's general requirements for motor vehicles.
- 2.0** **Requirements:**
All vehicles offered by the vendor must be new; shall not be used, rebuilt or refurbished and shall not have been used as demonstration vehicles. Initial delivery of the vehicles shall not exceed 300 miles on the odometer without prior approval from the Bureau of Purchase and Property.
- Vehicles must meet all federal and state equipment and safety requirements. All vehicles shall be equipped with manufacturer's standard features, unless otherwise specified in the detailed specifications.
- Optional and standard equipment ordered shall be installed and ready for use, unless otherwise specified.
- Do not use fleet specifications for manufacture's standard features.
- 3.0** **Color:**
Manufacturer's standard solid color as requested by the using agency, unless otherwise stated in the specifications.
- 4.0** **Preparation for Delivery:**
The cooling system of each vehicle is to be protected with permanent type anti-freeze to a temperature of at least thirty-four degrees below zero F. Vehicles must be delivered with all equipment in place, cleaned, lubricated, serviced and ready for operation. **Dealer advertising or logo is not to be displayed on vehicles.**
- 5.0** **Notes:**
Invoices are to be delivered to the using agency with the vehicle(s). Payments may be authorized for partial delivery of multiple vehicle orders.
- 6.0** **Certification:**
A signed copy of the dealer pre-delivery service check sheet and a certificate of origin must accompany each vehicle.
- 7.0** **Bid Compliance:**
The contracting vendor will be solely responsible for meeting specification requirements, including delivery.

SPECIFICATION REVISED 11/6/2015
Paint and Primer Coatings

This specification is for paint and primer (coating supplies) provided to NHDOT and for primer and paint coatings utilized on equipment supplied to NHDOT.

All coating supplies and coatings utilized on equipment surfaces that are normally primed and painted shall be suitable for severe exposure to road salt and abrasion. Coatings shall conform to all applicable federal and state regulations and criteria pertaining to chemical and VOC content.

Coatings containing any compound that would render the waste paint, in its dried form, a hazardous waste per NH Code of Administrative Rules Chapter Env-Hw 400 are prohibited. This includes, but is not limited to, RCRA listed metals (e.g., Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Silver, Selenium) other than naturally occurring trace amounts associated with the coating pigments. The intent of this specification is to obtain or utilize paint such that any concentration of these metals shall not produce a TCLP test result that would fail NH DES toxicity characteristic standards and will meet the latest governing regulatory criteria.

Coatings shall not contain hexavalent chromium or cadmium. For the purposes of this specification, a coating product "contains hexavalent chromium or cadmium" if hexavalent chromium or cadmium was introduced as a pigment or as an agent to impart any property or characteristic to the coating during manufacturing, distribution, or use of the applicable coating. Coatings supplied shall not contain a total VOC content greater than 2.8 lbs/gal (340 g/l).

* A written certificate of conformance to these specifications shall be submitted to NHDOT, for coatings utilized on equipment supplied to NHDOT, indicating these compounds do not exceed Toxicity Characteristics of NH Code of Administrative Rules Env-Hw 403.06, Table 4.9, and Regulatory Limits. Material Safety Data Sheets are not sufficient documentation of conformance. Laboratory test results must be supplied with the written certificate. The following test methods are incorporated by reference herein, and shall be used to test coatings.

1. American Society for Testing and Materials (ASTM) Method D3335-85a (1999), Standard Test Method for Low Concentrations of Lead, Cadmium, and Cobalt in paint by Atomic Absorption Spectroscopy.
2. American Society for Testing and Materials (ASTM) Method D3718-85a (1999), Standard Test Method for Low Concentrations of Chromium in paint by Atomic Absorption Spectroscopy.
3. EPA Test Method 1311 – TCLP Toxicity Characteristic Leaching Procedure.
4. Latest version of EPA Test Methods 3010/6010 (as referenced on the EPA web-page for test methods)
5. Alternative methods which are shown to accurately determine the concentration of hexavalent chromium or cadmium compounds in a subject coating product or its emissions may be used upon written approval.

The coatings also shall meet the following criteria:

Solids Content

- % By Volume 45- 60
- % By Weight 55 -70
- Recommended Dry Film Thickness 1 – 2 ml (Bulk Orders Only)
- Wet Film Thickness to Achieve 2 ½ - 4 ½ ml (Bulk Orders Only)
- Practical Coverage at DFT 325 – 650 sq. ft.
- Dry Time (70 – 80° F and 50% humidity)
 - Tack Free 4 – 6 hours
 - Handle 12 – 16 hours
 - Recoat 24 hours

All bulk coating supplies shall be packaged in 1-gallon containers.

The following paints are indicative of the type of product required.

<u>Manufacturer</u>	<u>Product</u>	<u>Year</u>
Sherwin Williams	Industrial Enamel HS	2011
Sherwin Williams	Primer B50NZ003	2012
Geurtin Coatings	Super shield Topcoat	2012
Geurtin Coatings	Epoxy Primer	2012
	EF75064P1/EF75060P2	
Akzo Nobel Powder Coating	Textra	2012
Devoe High Performance Coatings	Dev guard 4309 Rust	2011

Please include, paint manufacturer, paint color, part number and description of each color used on the equipment.

PAINT SPECIFICATION COMPLIANCE:

The successful vendor shall be required to submit written certificates including lab results within 14 calendar days after notification that they are the apparent low bidder.

We will need a letter from the vendor indicating the test result provided is for a sample of the paints to be use on the equipment to be provided. The letter shall specifically reference paint manufacturer name, trade name(s)/product ID Number. Also, the letter is to indicate that the paint is the only color used on the chassis, frame, and body. If there is more than one color, additional test results for the other colors will be required.

SUBMIT TO: NH DEPARTMENT OF ADMINISTRATIVE SERVICES
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