



STATE OF NORTH CAROLINA

DEPARTMENT OF ADMINISTRATION,

DIVISION OF PURCHASE & CONTRACT

Invitation for Bid #: DPC-123307769-BP

Class 8 Truck Cab and Chassis

Date Issued: November 4, 2024

Bid Opening Date: December 5, 2024

At 2:00 PM ET

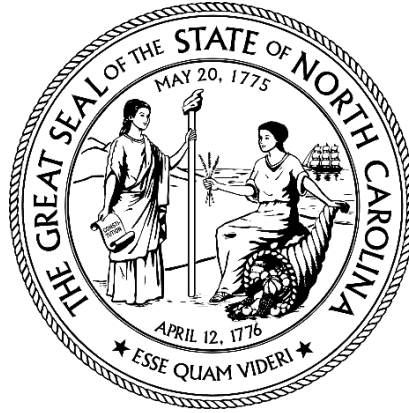
Direct all inquiries concerning this IFB to:

Brian Phillips

State Procurement Specialist III

E-mail: brian.phillips@doa.nc.gov

Phone: 984-236-0296



STATE OF NORTH CAROLINA
Invitation for Bid # DPC-123307769-BP

For internal state agency processing, including tabulation of bids, provide your company's eVP (Electronic Vendor Portal) Number. Pursuant to G.S. 132-1.10(b) this identification number shall not be released to the public. **This page will be removed and shredded, or otherwise kept confidential**, before the procurement file is made available for public inspection.

This page shall be filled out and returned with your bid.
Failure to do so may subject your bid to rejection.

Vendor Name

Vendor eVP#

Note: For a contract to be awarded to you, your company (you) must be a North Carolina registered vendor in good standing. You must enter the vendor number assigned through eVP. If you do not have a vendor number, register at <https://vendor.ncgov.com/vendor/login>

STATE OF NORTH CAROLINA
DEPARTMENT OF ADMINISTRATION – DIVISION OF PURCHASE AND CONTRACT
Statewide Term Contract

| | |
|--|---|
| <p>Refer <u>ALL</u> Inquiries regarding this IFB to: All correspondence with vendors shall be through the Ariba Sourcing Tool. Questions will be received in the Ariba Sourcing Tool (only) based on the schedule in Section 2.4</p> | <p>Invitation for Bid #: DPC-123307769-BP</p> <p>Bids will be publicly opened: Thursday, December 5, 2024 ET Via MS Teams</p> <p><u>Bid Opening for DPC-123307769-BP Class 8 Truck Cabs and Chassis</u></p> <p>Microsoft Teams <u>Need help?</u> <u>Join the meeting now</u> Meeting ID: 254 811 784 161 Passcode: kVWRYe</p> |
| | <p>Dial in by phone <u>+1 984-204-1487,,185712580#</u> United States, Raleigh <u>Find a local number</u> Phone conference ID: 185 712 580# Join on a video conferencing device Tenant key: ncgov@m.webex.com Video ID: 115 945 764 4</p> |
| <p>For Statewide Use of All State Entities STC #: 2518A</p> | <p>Commodity # and Description: 25181602 Truck Chassis</p> |

EXECUTION

In compliance with this Invitation for Bid (IFB), and subject to all the conditions herein, the undersigned Vendor offers and agrees to furnish and deliver any or all items upon which prices are bid, at the prices set opposite each item within the time specified herein.

By executing this bid, the undersigned Vendor understands that false certification is a Class I felony and certifies that:

- this bid is submitted competitively and without collusion (G.S. 143-54),
- that none of its officers, directors, or owners of an unincorporated business entity has been convicted of any violations of Chapter 78A of the General Statutes, the Securities Act of 1933, or the Securities Exchange Act of 1934 (G.S. 143-59.2), and
- it is not an ineligible Vendor as set forth in G.S. 143-59.1.

Furthermore, by executing this bid, the undersigned certifies to the best of Vendor's knowledge and belief, that:

- it and its principals are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal or State department or agency.

As required by G.S. 143-48.5, the undersigned Vendor certifies that it, and each of its sub-contractors for any Contract awarded as a result of this IFB, complies with the requirements of Article 2 of Chapter 64 of the NC General Statutes, including the requirement for each employer with more than 25 employees in North Carolina to verify the work authorization of its employees through the federal E-Verify system.

As required by Executive Order 24 (2017), the undersigned Vendor certifies will comply with all Federal and State requirements concerning fair employment and that it does not and will not discriminate, harass, or retaliate against any employee in connection with performance of any Contract arising from this solicitation.

G.S. 133-32 and Executive Order 24 (2009) prohibit the offer to, or acceptance by, any State Employee associated with the preparing plans, specifications, estimates for public Contract; or awarding or administering public Contracts; or inspecting or supervising delivery of the public Contract of any gift from anyone with a Contract with the State, or from any person seeking to do business with the State. By execution of this bid response to the IFB, the undersigned certifies, for Vendor’s entire organization and its employees or agents, that Vendor are not aware that any such gift has been offered, accepted, or promised by any employees or agents of Vendor’s organization.

By executing this bid, Vendor certifies that it has read and agreed to the **INSTRUCTION TO VENDORS** and the **NORTH CAROLINA GENERAL TERMS AND CONDITIONS incorporated below**. These documents can be accessed from the Ariba Sourcing Tool.

Failure to execute/sign bid prior to submittal may render bid invalid and it MAY BE REJECTED. Late bids cannot be accepted.

| | | |
|---|-------------------|--------------------|
| COMPLETE/FORMAL NAME OF VENDOR: | | |
| STREET ADDRESS: | P.O. BOX: | ZIP: |
| CITY & STATE & ZIP: | TELEPHONE NUMBER: | TOLL FREE TEL. NO: |
| PRINCIPAL PLACE OF BUSINESS ADDRESS IF DIFFERENT FROM ABOVE (SEE INSTRUCTIONS TO VENDORS ITEM #21): | | |
| PRINT NAME & TITLE OF PERSON SIGNING ON BEHALF OF VENDOR: | | FAX NUMBER: |
| VENDOR’S AUTHORIZED SIGNATURE: | DATE: | E-MAIL: |

Bid Number: DPC-123307769-BP

Vendor: _____

VALIDITY PERIOD

Offer shall be valid for at least one hundred twenty (120) days from date of bid opening, unless otherwise stated here: _____ days, or if extended by mutual agreement in writing of the parties. Any withdrawal of this offer shall be made in writing, effective upon receipt by the agency issuing this IFB.

BID ACCEPTANCE

If your bid is accepted, all provisions of this IFB, along with the written results of any negotiations, shall constitute the written agreement between the parties ("Contract"). The NORTH CAROLINA GENERAL TERMS AND CONDITIONS are incorporated herein and shall apply. Depending upon the Goods or Services being offered, other terms and conditions may apply, as mutually agreed.

FOR STATE USE ONLY: Offer accepted and Contract awarded on date of _____ as indicated,

by _____.
(Authorized Representative of Department of Administration, Division of Purchase & Contract)

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1.0 PURPOSE AND BACKGROUND

The Department of Administration (DOA) serves as the business manager for North Carolina State government and provides leadership to State government for the effective, efficient, economical, and equitable delivery of services to the public. The department also aids and services several advocacy programs that serve diverse segments of the State's population that have traditionally been underserved. The Division of Purchase & Contract (P&C) is the strategic force to provide the State's entities with a catalog of Statewide Term Contracts (STC) that provide for an encompassing organized and efficient manner to pool resources to provide goods and services.

The State through the Department of Administration (DOA) Division of Purchase & Contract (P&C) is seeking vendors to establish a Statewide Term Contract to furnish and deliver the State's requirements for Class 8 Truck Cab and Chassis with a gross vehicular weight of 33,000 pounds or larger, throughout the State of North Carolina, on an "As Needed" basis, if and when ordered by State Departments, Agencies, and Higher Education Institutions during the contract period. These vehicles will be used to replace trucks that are near end of life and to supplement existing fleets that have taken on additional responsibilities.

This State of North Carolina is seeking vendors to supply the State's requirements for Class 8 Truck Cab and Chassis.

To comply with Governor Cooper's Executive Order 80 (October 2018), North Carolina's Commitment to Address Climate Change and Transition to a Clean Energy Economy, the contract resulting from this solicitation intends to provide sustainability features, per industry standards.

The intent of this Invitation for Bid (hereinafter, "IFB") is to receive pricing from Vendors which will offer savings to the State and confirm, through Vendors' submission of bids, its ability to meet the State's needs.

The contract resulting from this IFB is mandatory for State departments and most State Agencies, and by State higher education institutions (except under the conditions specified in G.S. 115D-58.14(a) and G.S. 116-13). The Contract may also be utilized, without further competition, by non-mandatory State Agencies and Other Eligible Entities.

Bids shall be submitted in accordance with the terms and conditions of this IFB and any addenda issued hereto. The intent of this solicitation is to award Statewide Term Contract.

1.1 CONTRACT TERM

The Contract shall have an initial term of five (5) years, beginning on the date of final Contract execution (the "Effective Date") or **December 16, 2024** whichever is later.

At any time during the contract period the State may conduct an Open Enrollment process by posting a solicitation in the Ariba Sourcing Tool for the purpose of adding new manufacturer(s) to the contract, to provide a wide coverage of Class 8 Truck Cab and Chassis. The awarded Vendors will remain on the contract for the duration of the contract term unless terminated for convenience.

Bids shall be submitted in accordance with the terms and conditions of this IFB and any addenda issued hereto.

At the end of the Contract's initial term, the State shall have the option, in its sole discretion, to renew the Contract on the same terms and conditions. The State will give the Vendor written notice of its intent to exercise this option no later than thirty (30) days before the end of the Contract's then-current term.

1.2 ESTIMATED SPEND

Based on the historical usage of the STC, the estimated spend for the full term of this contract is \$36,000,000.

This amount is not guaranteed and could be more or less than the historical expenditure during the contract period. No maximum or minimum quantities are guaranteed.

2.0 GENERAL INFORMATION

2.1 INVITATION FOR BID DOCUMENT

The IFB is comprised of the base IFB document, any attachments, and any addenda released before Contract award, which are incorporated herein by reference.

2.2 E-PROCUREMENT FEE

ATTENTION: This is an NC eProcurement solicitation facilitated by the Ariba Network. The E-Procurement fee may apply to this solicitation. See paragraph entitled ELECTRONIC PROCUREMENT of the North Carolina General Terms and Conditions.

General information on the E-Procurement Services can be found at: <http://eprocurement.nc.gov/>.

What is the Ariba Network?

The Ariba Network is a web-based platform that serves as a connection point for buyers and vendors. Vendors can log in to the Ariba Network to view purchase orders, respond to electronic requests for quotes, participate in Sourcing Events, and collaborate with buyers on contract documents.

For training on how to use the Sourcing Tool to view solicitations, submit questions, develop responses, upload documents, and submit offers to the State, Vendors should go to the following site:

<http://eprocurement.nc.gov/training/vendor-training>.

2.3 NOTICE TO VENDORS REGARDING IFB TERMS AND CONDITIONS

It shall be the Vendor's responsibility to read the Instructions to Vendors, the North Carolina General Terms and Conditions, all relevant exhibits and attachments, and any other components made a part of this IFB and comply with all requirements and specifications herein. Vendors also are responsible for obtaining and complying with all Addenda and other changes that may be issued in connection with this IFB.

If Vendors have questions, or issues regarding any component within this IFB, those must be submitted as questions in accordance with the instructions in the BID QUESTIONS Section. If the State determines that any changes will be made as a result of the questions asked, then such decisions will be communicated in the form of an IFB addendum. The State may also elect to leave open the possibility for later negotiation and amendment of specific provisions of the Contract that have been addressed during the question-and-answer period.

Other than through the process of negotiations under 01 NCAC 05B.0503, the State rejects and will not be required to evaluate or consider any additional or modified terms and conditions submitted with Vendor's bid. This applies to any language appearing in or attached to the document as part of the Vendor's bid that purports to vary any terms and conditions or Vendors' instructions herein or to render the bid non-binding or subject to further negotiation. Vendor's bid shall constitute a firm offer that shall be held open for the period required herein ("Validity Period" above).

The State may exercise its discretion to consider Vendor proposed modifications. By execution and delivery of this IFB Response, the Vendor agrees that any additional or modified terms and conditions, whether submitted purposely or inadvertently, shall have no force or effect, and will be disregarded unless expressly agreed to during negotiations and incorporated by way of a Best and Final Offer (BAFO). Noncompliance with, or any attempt to alter or delete, this paragraph shall constitute sufficient grounds to reject Vendor's bid as nonresponsive.

2.4 IFB SCHEDULE

The table below shows the *intended* schedule for this IFB. The State will make every effort to adhere to this schedule.

| Event | Responsibility | Date and Time |
|--------------------------------|----------------|--------------------------|
| Issue IFB | State | 11/04/2024 |
| Hold Pre-Bid Conference | State | 11/13/2024 at 2:00 PM ET |
| Submit Written Questions | Vendor | 11/18/2024 at 4:00 PM ET |
| Provide Responses to Questions | State | 11/22/2024 |
| Submit Bids | Vendor | 12/05/2024 at 2:00 PM ET |
| Intended Contract Award | State | 12/20/2024 |

2.5 PRE-BID CONFERENCE

Urged and Cautioned Pre-Bid Conference

Date: 11/13/2024

Time: 2:00 PM EST

MS Teams: [MS Teams link to Pre-Bid Conference for Class 8 Truck Cabs and Chassis](#)

Microsoft Teams [Need help?](#)

[Join the meeting now](#)

Meeting ID: 227 615 526 059

Passcode: tCgZN6

Dial in by phone

[+1 984-204-1487,,858591208#](#) United States, Raleigh

[Find a local number](#)

Phone conference ID: 858 591 208#

Join on a video conferencing device

Tenant key: ncgov@m.webex.com

Video ID: 117 575 128 9

Instructions: Vendor representatives are URGED and CAUTIONED to attend the pre-bid conference and apprise themselves of the conditions and requirements which will affect the performance of the work called for by this IFB. A non- mandatory pre-bid conference is scheduled for this IFB. Submission of a bid shall constitute sufficient evidence of Vendor's compliance and no allowance will be made for unreported conditions which a prudent Vendor would recognize as affecting the performance of the work called for in this IFB.

Vendor is cautioned that any information released to attendees during the pre-bid conference, other than that involving the physical aspects of the facility referenced above, and which conflicts with, supersedes, or adds to requirements in this IFB, must be confirmed by written addendum before it can be considered as a part of this IFB and any resulting contract.

2.6 BID QUESTIONS

Upon review of the IFB documents, Vendors may have questions to clarify or interpret the IFB in order to submit the best bid possible. To accommodate the Bid Questions process, Vendors shall submit any such questions by the "Submit Written Questions" date and time provided in the IFB SCHEDULE Section above, unless modified by Addendum.

Questions related to the content of the solicitation, or the procurement process should be directed to the person on the title page of this document via the Sourcing Tool's message board by the date and time specified in the IFB SCHEDULE Section of this IFB. Vendors will enter "IFB # DPC-123307769-BP- Questions" as the subject of the message. Question submittals should include a reference to the applicable IFB section. This is the only manner in which questions will be received.

Questions or issues related to using the Sourcing Tool itself can be directed to the North Carolina eProcurement Help Desk at 888-211-7440, Option 2. Help Desk representatives are available Monday through Friday from 7:30 AM ET to 5:00 PM EST.

Questions received prior to the submission deadline date, the State's response, and any additional terms deemed necessary by the State will be posted in the Sourcing Tool in the form of an addendum and shall become an Addendum to this IFB. No information, instruction or advice provided orally or informally by any State personnel, whether made in response to a question or otherwise in connection with this IFB, shall be considered authoritative or binding. Vendors shall rely *only* on written material contained in an Addendum to this IFB.

2.7 BID SUBMITTAL

IMPORTANT NOTE: This is an absolute requirement. Late bids, regardless of cause, will not be opened or considered, and will be automatically disqualified from further consideration. Vendor shall bear the sole risk of late submission due to unintended or unanticipated delay. It is the Vendor's sole responsibility to ensure its bid has been received as described in this IFB by the specified time and date of opening. Failure to submit a bid in strict accordance with instructions provided shall constitute sufficient cause to reject a Vendor's bid(s). Solicitation responses are subject to Sealed Bidding requirements.

Vendor's bids for this procurement must be submitted through the Sourcing Tool. For training on how to use the Sourcing Tool to view solicitations, submit questions, develop responses, upload documents, and submit offers to the State, Vendors should go to the following site: <https://eprocurement.nc.gov/training/vendor-training>.

Questions or issues related to using the Sourcing Tool itself can be directed to the North Carolina eProcurement Help Desk at 888-211-7440, Option 2. Help Desk representatives are available Monday through Friday from 7:30 AM EST to 5:00 PM EST. Tips for Using the Sourcing Tool

1. Vendors should review available training and confirm that they are able to access the Sourcing Event, enter responses, and upload files well in advance of the date and time response are due to allow sufficient time to seek assistance from the North Carolina eProcurement Help Desk.
2. Vendors may submit their responses early to make sure there are no issues, and then submit a revised response any time prior to the response due date and time. The State will only review the most recent response.
3. Vendors should respond to all relevant sections of the Sourcing Event. Certain questions or items are required in order to submit a response and are denoted with an asterisk. The Sourcing Tool will not allow a response to be submitted unless all required items are completed. The Sourcing Tool will provide error messages to help identify any required information that is missing when response is submitted.
4. Simply saving your response in the Sourcing Tool is not the same as submitting your response to the State. Vendors should make sure they complete the submission process and receive a message that their response was successfully submitted.
5. **Only Bids submitted through the Content Section of the Ariba Sourcing Event will be considered. Bids submitted through the Message Board will not be accepted or considered for award.**

2.8 BID CONTENTS

Vendors shall provide responses to all questions and complete all attachments for this IFB that require the Vendor to provide information and upload them to the Sourcing Event in the Sourcing Tool. Vendor may not be able to submit its response in the Sourcing Tool unless all required items are addressed. Vendors shall provide authorized signatures where requested. Failure to provide all required items, or Vendor's submission of incomplete items, may result in the State rejecting Vendor's bid, in the State's sole discretion.

Vendors shall upload the following items and attachments in the Sourcing Tool:

- a) Cover Letter, must include the following: (i) a statement that confirms that the Vendor has read the IFB in its entirety, including all links, and all Addenda released in conjunction with the IFB; (ii) a statement that Vendor agrees to perform in accordance with the scope of work, requirements, and specifications contained herein; and (iii) Vendor's agreement to comply with all instructions, terms and conditions, and attachments.
- b) Title Page: Include the company name, address, phone number and authorized representative along with the Bid Number.
- c) Completed and signed version of EXECUTION PAGES, along with the body of the IFB.
- d) Signed receipt pages of any addenda released in conjunction with this IFB, if required to be returned.
- e) Completed version of ATTACHMENT A: PRICING WORKBOOK
- f) Completed and signed version of ATTACHMENT D: HUB SUPPLEMENTAL VENDOR INFORMATION
- g) Completed and signed version of ATTACHMENT E: CUSTOMER REFERENCE FORM
- h) Completed and signed version of ATTACHMENT F: LOCATION OF WORKERS UTILIZED BY VENDOR

- i) Completed and signed version of ATTACHMENT G: CERTIFICATION OF FINANCIAL CONDITION
- j) Completed and signed version of CERTIFICATION FOR CONTRACTS, GRANTS, LOANS, AND COOPERATIVE AGREEMENTS and OMB STANDARD FORM LLL
- k) Attachment H: Sustainability Efforts

2.9 ALTERNATE BIDS

Unless provided otherwise in this IFB, Vendor may submit alternate bids for comparable Goods, various methods or levels of Service(s), or that propose different options. Alternate bids must specifically identify the IFB requirements and advantage(s) addressed by the alternate bid. Each bid must be for a specific set of Goods and must include specific pricing. Each bid must be complete and independent of other bids offered. If a Vendor chooses to respond with various offerings, Vendor shall follow the specific instructions for uploading Alternate Bids in the Sourcing Tool.

2.10 DEFINITIONS, ACRONYMS, AND ABBREVIATIONS

Relevant definitions for this IFB are provided in 01 NCAC 05A .0112 and in the Instructions to Vendors found Sourcing Tool, which are incorporated herein by this reference.

- a) NCDOT- North Carolina Department of Transportation
- b) EPMQ Equipment Preventative Maintenance Questionnaire
- c) Piggy-backed – A shipping process where multiple trucks are hitched together to be transported by a single tractor-trailer
- d) MCO – Manufacturer’s Certificate of Origin
- e) MVR-1-Manufacturer’s Title Application

3.0 METHOD OF AWARD AND BID EVALUATION PROCESS

3.1 METHOD OF AWARD

North Carolina G.S. 143-52 provides a general list of criteria the State shall use to award contracts, as supplemented by the additional criteria herein. The Goods or Services being procured shall dictate the application and order of criteria; however, all award decisions shall be in the State’s best interest.

Percentage Off Manufacturer Suggested Retail Price (MSRP)

All responsive bids will be reviewed, and award or awards will be based on the responsive bids(s) to provide the estimated requirements as to breadth of items in each category offered, highest percentage discount offered off the most recently published Manufacturer Standard Retail Price (MSRP) List, quantity, quality, delivery, service, and/or geographical coverage, to include any required verifications set out herein such as but not limited to past performance, references, and financial documents.

It is the State’s intent to have multiple manufacturers represented in each category. In the event that two (2), or more Vendors offer the same manufacturer’s product(s), it is the intent of the State to make an award to the Vendor with the most complete offering per category, and highest percentage discount offered off MSRP List for a particular manufacturer’s product(s).

Products offered must currently be available on the manufacturer’s most recently published MSRP. **Submission of price schedules developed specifically for this Bid WILL result in disqualification from award consideration.**

While the intent of this IFB is to award a Contract(s) to a single Vendor for all line items the State reserves the right to make separate awards to different Vendors for one or more line items, to not award one or more line items or to cancel this IFB in its entirety without awarding a Contract, if it is considered to be most advantageous to the State to do so.

The State reserves the right to waive any minor informality or technicality in bids received.

3.2 CONFIDENTIALITY AND PROHIBITED COMMUNICATIONS DURING EVALUATION

While this IFB is under evaluation, the responding Vendor, including any subcontractors and suppliers, is prohibited from engaging in

conversations intended to influence the outcome of the evaluation. See the Paragraph of the Instructions To Vendors entitled COMMUNICATIONS BY VENDORS.

Each Vendor submitting a bid to this IFB, including its employees, agents, subcontractors, suppliers, subsidiaries and affiliates, is prohibited from having any communications with any person inside or outside the using agency; issuing agency; other government agency office or body (including the purchaser named above, any department secretary, agency head, members of the General Assembly and Governor's office); or private entity, if the communication refers to the content of Vendor's proposal or qualifications, the content of another Vendor's proposal, another Vendor's qualifications or ability to perform a resulting contract, and/or the transmittal of any other communication of information that could be reasonably considered to have the effect of directly or indirectly influencing the evaluation of proposals, the award of a contract, or both.

Any Vendor not in compliance with this provision shall be disqualified from evaluation and award. A Vendor's proposal may be disqualified if its subcontractor and/or supplier engage in any of the foregoing communications during the time that the procurement is active (*i.e.*, the issuance date of the procurement until the date of contract award or cancellation of the procurement). Only those discussions, communications or transmittals of information authorized or initiated by the issuing agency for this IFB or inquiries directed to the purchaser named in this IFB regarding requirements of the IFB (prior to proposal submission) or the status of the award (after submission) are excepted from this provision.

3.3 BID EVALUATION PROCESS

Only responsive submissions will be evaluated.

The State will conduct an evaluation of responsive Bids, as follows:

Bids will be received according to the method stated in the Bid Submittal section above.

All bids must be received by the issuing agency not later than the date and time specified in the IFB SCHEDULE Section above, unless modified by Addendum. Vendors are cautioned that this is a request for offers, not an offer or request to contract, and the State reserves the unqualified right to reject any and all offers at any time if such rejection is deemed to be in the best interest of the State.

At the date and time provided in the IFB SCHEDULE Section above, unless modified by Addendum, the bids from each responding Vendor will be opened publicly and all offers (except those that have been previously withdrawn, or voided bids) will be tabulated. The tabulation shall be made public at the time it is created. When negotiations after receipt of bids is authorized pursuant to G.S. 143-49 and 01 NCAC 05B.0503, only the names of offerors and the Goods and Services offered shall be tabulated at the time of opening. Cost and price shall become available for public inspection at the time of the award. Interested parties are cautioned that these costs and their components are subject to further evaluation for completeness and correctness and therefore may not be an exact indicator of a Vendor's pricing position.

At their option, the evaluators may request oral presentations or discussions with any or all Vendors for clarification or to amplify the materials presented in any part of the bid. Vendors are cautioned, however, that the evaluators are not required to request presentations or other clarification—and often do not. Therefore, all bids should be complete and reflect the most favorable terms available from the Vendor. Prices of bid cannot be altered or modified as part of a clarification.

Bids will generally be evaluated, based on completeness, content, cost, and responsibility of the Vendor to supply the requested Goods and Services. Specific evaluation criteria are listed in Section 3.1 METHOD OF AWARD.

Upon completion of the evaluation process, the State will make Award(s) based on the evaluation and post the award(s) to **the electronic Vendor Portal (eVP)**, <https://evp.nc.gov>, under the IFB number for this solicitation. Award of a contract to one Vendor does not mean that the other bids lacked merit, but that, all factors considered, the selected bid was deemed most advantageous and represented the best value to the State.

The State reserves the right to negotiate with one or more Vendors, or to reject all original offers and negotiate with one or more sources of supply that may be capable of satisfying the requirement, and in either case to require Vendor to submit a Best and Final Offer (BAFO) based on discussions and negotiations with the State.

3.4 PERFORMANCE OUTSIDE THE UNITED STATES

Vendor shall complete **ATTACHMENT F: LOCATION OF WORKERS UTILIZED BY VENDOR**. In addition to any other evaluation criteria identified in this IFB, the State may also consider, for purposes of evaluating proposed or actual contract performance outside of the United States, how that performance may affect the following factors to ensure that any award will be in the best interest of the State:

- a) Total cost to the State
- b) Level of quality provided by the Vendor
- c) Process and performance capability across multiple jurisdictions
- d) Protection of the State’s information and intellectual property
- e) Availability of pertinent skills
- f) Ability to understand the State’s business requirements and internal operational culture
- g) Particular risk factors such as the security of the State’s information technology
- h) Relations with citizens and employees
- i) Contract enforcement jurisdictional issues

3.5 INTERPRETATION OF TERMS AND PHRASES

This IFB serves two functions: (1) to advise potential Vendors of the parameters of the solution being sought by the State; and (2) to provide (together with other specified documents) the terms of the contract resulting from this procurement. The use of phrases such as “shall,” “must,” and “requirements” are intended to create enforceable contract conditions. In determining whether bids should be evaluated or rejected, the State will take into consideration the degree to which Vendors have proposed or failed to propose solutions that will satisfy the State’s needs as described in the IFB. Except as specifically stated in the IFB, no one requirement shall automatically disqualify a Vendor from consideration. However, failure to comply with any single requirement may result in the State exercising its discretion to reject a bid in its entirety.

4.0 REQUIREMENTS

This Section lists the requirements related to this IFB. By submitting a bid, the Vendor agrees to meet all stated requirements in this Section, as well as any other specifications, requirements, and terms and conditions stated in this IFB. If a Vendor is unclear about a requirement or specification or believes a change in a requirement would allow for the State to receive a better bid, the Vendor is encouraged to submit these items in the form of a question during the question and answer period in accordance with the Bid Questions Section above.

4.1 PRICING

Bid price shall constitute the total cost to the State for delivery fully assembled and ready for use, including all applicable charges for shipping, delivery, handling, administrative and other similar fees. Complete ATTACHMENT A: PRICING WORKBOOK and upload in the Sourcing Tool. The pricing provided in ATTACHMENT A, or resulting from any negotiations, is incorporated herein and shall become part of any resulting contract.

The Vendor will demonstrate reasonableness of price by offering the Percentage Discount to North Carolina that is the same or better than provided in a current contract to similarly situated governmental entities (i.e. other State contracts, GSA, NASPO ValuePoint, Veteran’s Administration, Department of Defense or other governmental entities). If the Vendor is unable to offer the Percentage Discount to NC that is the same or better than given to other similarly situated governmental entities, Vendor shall include with the response a brief explanation as to why they are unable to do so. The State reserves the right to request further information such as copies of other governmental contracts, to determine the reasonableness of the price offered.

4.2 ESTIMATED QUANTITIES

The quantities indicated herein are annual estimates only and are provided for informational purposes based on the anticipated usage during the previous 3-year period. No maximum or minimum quantities are guaranteed. It shall be understood and agreed that the State may purchase more or less than the estimated quantities during the contract period. The State reserves the right to increase or decrease the quantities as needed. The State shall not be obligated to purchase more than its normal requirements. The State will be responsible only for items requested and received.

4.3 ADDITIONAL SAVINGS OFFERS/REBATES

This component of the Pricing Response is optional, but the State encourages Vendors to provide additional financial incentives/rebates, if possible, within the scope of this IFB, that will benefit the State. These additional incentives could include, but are not limited to additional discounts based on total spend volumes, tier pricing, rebates, additional discounts by manufacturer, etc. Additional Discount Offers shall be in addition to the discounts Vendor offers as a List Item Price. Additional Discount Offers should be provided in ATTACHMENT A: PRICING WORKBOOK.

Additional Discounts: As part of the pricing submittal, Vendors are being requested to propose an additional percentage discount which would be applied to all orders for the remainder of the contract term if and when the total orders against the contract exceed the provided amount, at any point during the life of the contract. Orders from all entities utilizing this contract will count toward the contract volume discount threshold.

Rebates: If a rebate is offered, it will be based on reported sales, on a quarterly basis (see Section 6.6 QUARTERLY REPORTS). The Vendor shall submit the rebate amount due by check with the "Contracts Number," "Report Amount," and "Report Period" on either the check stub or other remittance materials. The payment shall be made by check as described herein.

Checks shall be payable to: NCDOA, Division of Purchase & Contract

Checks shall be mailed to: NCDOA, Division of Purchase & Contract, Contract Manager

1305 Mail Service
Center 325 N. Salisbury
Street Raleigh, NC
27603

All discounts in Vendor's bid shall remain in effect for the entire contract period and shall not be decreased. However, the discount may be increased, and any such increase shall remain in effect for the remainder of the contract period and any subsequent extensions. Volume or tier discounts, if offered, shall apply to purchase orders placed for delivery to the same location. Vendors may provide volume or tier discounts to orders that include multiple delivery points from the same agency.

The State reserves the right to accept or reject all or part of the proposed Additional Discount Offers as part of a Vendor's Total Price Submittal Value. The State has sole discretion to not assign value to Vendor's proposed Additional Discount Offers which the State cannot quantify or to give only partial value for Additional Discount Offers. Vendors may offer the State additional discounts using the Additional Discount Offers within ATTACHMENT A-PRICING SUBMITTAL WORKBOOK.

4.4 PRODUCT IDENTIFICATION

SUITABILITY FOR INTENDED USE

Vendors are requested to offer only items directly complying with the specifications herein or comparable items which will provide the equivalent capabilities, features and diversity called for herein. The State reserves the right to evaluate all bids for suitability for the required use and to award the one best meeting requirements and considered to be in the State's best interest.

4.5 TRANSPORTATION AND IDENTIFICATION

The Vendor shall deliver Free-On-Board (FOB) Destination to any requested location within the State of North Carolina with all transportation costs and fees included in the total bid price.

When an order is placed using a purchase order, the purchase order number shall be shown on all packages and shipping manifests to ensure proper identification and payment of invoices. If an order is placed without using a purchase order, such as via phone, the Buyer's name shall be show on all packages. A complete packing list shall accompany each shipment. Vendors shall not ship any products until they have received an order.

4.6 DELIVERY

The Vendor shall deliver Free-On-Board (FOB) Destination to the following location(s):

North Carolina Department of Transportation
Equipment and Inventory Control Unit
4809 Beryl Road

Bid Number: DPC-123307769-BP
Raleigh, NC 27606

Vendor: _____

Godwin Manufacturing Company, Inc.
17665 US 421 Dunn South
Dunn, NC 28334

Knapheide Truck Equipment MidSouth
3572 Fieldstone Trace
Midland, NC 2107

Or to any designated location within the State of North Carolina's 100 counties.

Vendor should complete delivery within 120 consecutive calendar days after receipt of purchase order.

For completion by Vendor: Delivery will be made from _____ (city, state) within _____ consecutive calendar days after receipt of purchase order. Promptness of delivery may be used as a factor in the award criteria.

The State reserves the right to evaluate the delivery schedule offered as a factor in determining award of this contract. The delivery schedule will be finalized with the successful Vendor when a purchase order is issued if multiple units are ordered at the same time. The successful Vendor will be expected to adhere strictly to this delivery schedule, finalized in accordance with the North Carolina Department of Transportation (NCDOT) guidelines, AFTER a purchase order is issued.

Vendors are cautioned that excessively long delivery schedules, as determined by this Division, may be cause for non-award. The State expects that the delivery schedule offered herein to be firm and fully expects compliance with the stated delivery schedule. Failure of the Vendor to meet contracted delivery schedules shall constitute cause for removal from the contract.

In the event the delivery is not received within the contract delivery period, the Vendor may be held in default in accordance with ATTACHMENT C, SECTION 1. - DEFAULT AND PERFORMANCE BOND, in the North Carolina General Contract Terms and Conditions, and the State may procure the articles or services from other sources and hold the Vendor responsible for any excess cost occasioned thereby.

SPECIAL NOTE:

The State will not allow delivery of any equipment until the Electronic Manuals and the Equipment Preventative Maintenance Questionnaire (EPMQ) Form with supporting documentation have been furnished, approved and accepted per the requirements of this bid. If delivery is delayed for failure to provide these associated materials, liquidated damages (per Section 4.15 – Liquidated Damages) will be in effect.

METHOD OF DELIVERY:

If "Piggy Backed", units shall have right and left axle shafts removed and hubs sealed off to prevent loss of lubricant. Prior to delivery, axles shall be replaced and wheels cleaned.

Describe how trucks are shipped and delivered:

4.7 ON-TIME DELIVERY RATE

The Vendor shall maintain an on-time shipment rate of at least 95% of orders being shipped within delivery terms. On-time shipment is defined as shipping all ordered items to the receiving point designated by the Buyer within the shipping time required in Section 4.5 DELIVERY. The on-time shipping rate is calculated using the following formula:

$$(\text{Number of On-Time Order Shipments}) / (\text{Total Number of Orders}) \times 100\% = \text{On-Time Shipment Rate}$$

Note: On-Time Shipment Rate will be rounded to the nearest whole percent.

Shipment Timing

Percent On-Time Shipment Rate

Section 4.6 Calendar Days

95%

NOTE: An order will not be considered shipped until all items in the order have been shipped to the State. This includes all shipments required to complete a given order. Therefore, the "Total Number of Orders" is equal to the total number of orders received, subtracting any orders that are cancelled by the State prior to shipment. If the Vendor makes multiple shipments to fill a single order, the shipment is not considered complete until all items have been shipped. Once all items have been shipped the order will be considered either "On-Time" or "Late". Vendor shall not cancel or require that the State cancel any partial order or item considered "back-ordered" due to shipment delay unless requested to do so by the State, nor engage in any process or activity with an effect of inflating the actual On-Time Shipment Rate without prior written authorization from the State.

4.8 PRODUCT RECALL

Vendor expressly assumes full responsibility for prompt notification to the Contract Manager at the State's Division of Purchase & Contract of any vehicle recall in accordance with the applicable State or Federal regulations. The Vendor shall support the Contract Manager in necessary follow-up with State entities that have purchased recalled vehicles to repair or replace, at no cost to the State, any such vehicle promptly.

4.9 QUALITY ACCEPTANCE INSPECTION

It is the responsibility of the receiving Buying Entity to inspect all materials, supplies and equipment upon delivery to ensure compliance with the Contract requirements and specifications.

INVOICES MAY NOT BE PAID BY THE USING AGENCY UNTIL AN INSPECTION HAS OCCURRED, AND THE GOODS ACCEPTED.

4.10 AUTHORIZED RESELLER

The Vendor shall be authorized by the manufacturer to distribute or resell the products and/or maintenance offered in this IFB. The Vendor shall provide a signed statement from the manufacturer confirming authorization upon request from the agency. Failure to provide this statement shall constitute sufficient grounds for rejection of Vendor's offer, at the discretion of the State.

Vendor is the: ☐ Manufacturer ☐ Dealer ☐ Reseller ☐ Distributor

Authorized: ☐ Yes ☐ No Attached Manufacturer's Authority: ☐ Yes ☐ No

4.11 WARRANTY

Manufacturer's standard warranty shall apply. Vendors shall include a copy of the manufacturer's standard warranty with the bid response.

Vendor shall be responsible for compliance with warranty terms by any third-party service provider. Vendor shall provide contact information for warranty service provider, below.

Vendor is authorized by manufacturer to repair equipment offered during the warranty period? ☐ YES ☐ NO

Will the Vendor provide warranty service? ☐ YES ☐ NO, a manufacturer-authorized third party will perform warranty service.

Contact information for warranty service provider:

| | |
|-----------------|--|
| Company Name | |
| Company Address | |
| Contact Name | |
| Contact Phone # | |
| Contact Email | |

4.12 DEMONSTRATION AND DESCRIPTIVE LITERATURE

DEMONSTRATION

The State reserves the right to require a demonstration of the exact model of equipment offered in order to assess suitability of the offered equipment for the intended use. Such demonstration shall be performed at Agency's facility or virtually by Vendor or his authorized representative before award of contract, upon request by and without charge to the State. Failure of Vendor or his authorized representative to perform a satisfactory demonstration (if requested) in accordance with these requirements shall be a sufficient basis for rejection of the bid. The results of such demonstration will be considered in the evaluation and award of a contract.

DESCRIPTIVE LITERATURE/CERTIFICATION

Vendor shall submit with the bid, Descriptive Literature to all of the vehicles being offered, in the designated area of the Sourcing Tool.

DRAWINGS

Two (2) sets of a truck chassis lay-out drawings shall be provided to the Production Control Manager within thirty (30) days from receipt of purchase order, addressed to:

N.C. Department of Transportation
Division of Highways
4809 Beryl Road
Raleigh, NC 27606

Or, if not a NCDOT purchase, drawings should be provided to the Purchasing Entity's Buyer that placed the order.

During the contract life, successful Vendor should inform the state of any changes that take place on the model offered whether it's basic changes or major changes. Supporting documents or engineering drawings should be presented to the state for the changes.

4.13 VENDOR'S PUBLISHED CATALOG & LISTS

The awarded Vendor shall furnish, as part of the contract, the following to the ***Manager of the Equipment & Inventory Control Unit***:

- A. One (1) operator's manual for the specific make & model of equipment shall be in each piece of equipment when delivered. Failure to furnish will delay payment.
- B. Two (2) electronic format copies of descriptive parts catalogs, operator's manual and shop/service manuals containing OEM Part Nos. covering all systems, components and accessories for the specific make & model of equipment purchased. These are to be delivered to the NCDOT Production Control Manager at 4809 Beryl Road or Purchasing Entity's Buyer within ten (10) days after receipt of purchase order.

The Purchasing Entity reserves the right to refuse delivery of any equipment until the electronic or paper manuals have been received, approved and accepted. Payment will not be rendered until manuals are received and determined to be suitable for use in the Purchasing Entity's electronic infrastructure.

DELIVERY AUTHORIZATION MUST BE RECEIVED FROM THE PRODUCTION CONTROL MANAGER BEFORE ANY EQUIPMENT IS DELIVERED.

- C. Two (2) electronic format copies of updates to the parts catalog and shop manuals for the specific make and model of equipment delivered shall be furnished to the State at the same time such updates are furnished to a dealer. Expenses incurred by the State as a result of the Vendor failing to provide updates under section C will be passed to the Vendor.

Electronic Format: The successful Vendor shall be responsible for providing the electronic media as described above in Adobe Portable Document Format or an electronic format pre-approved by the Purchasing Entity.

- D. In lieu of electronic format, the State will accept two (2) original paper versions of items listed above. Paper version is to be presented in 8.5" by 11" portrait presentation.

NOTE: Parts catalogs, service manuals, operator’s manuals, or other material needed to satisfy these requirements are not to be bid as separate items. All materials shall be furnished as specified and applicable to the equipment bid, at no additional cost. The Vendor specifically agrees that such material supplied under this section may be copied or reproduced in any manner for use by NCDOT.

4.14 DIAGNOSTIC SOFTWARE

When diagnostic ports are available on the equipment or any component of the equipment the Vendor is requested to furnish a price for supplying all components needed from the equipment data port(s) to a laptop or desktop computer. This should include but is not limited to such items as cables and software that the State will need to download diagnostic data or trouble shooting codes. The State will furnish laptop or desktop computers but will need compatibility requirements. The State reserves the right not to purchase the diagnostic equipment at the same time as the equipment is purchased.

What components can be checked through diagnostic ports?

List what will be furnished:

4.15 PILOT MODEL AND PRECONSTRUCTION MEETING

PILOT MODEL

The State reserves the right to require that a pilot model be made available, inspected and approved before any units are shipped. Inspection for compliance with specifications shall be at Vendor’s plant and the cost of the inspection shall NOT be included in the Vendor’s price of the items and will be added as a separate line item on Attachment A: Pricing Workbook. The Pilot Model inspection will be limited to a three (3) person committee representing the State of North Carolina and will only be held for orders greater than twenty (20) units on a single purchase order. The travel arrangements, accommodations and meals shall be reasonably related to the purpose of conducting the necessary inspections, and the Vendor may not provide or otherwise cover the cost of any goods or services unrelated to the purpose of conducting the necessary inspections (G.S. 14-234 and 133-32). Furthermore, all travel arrangements must be made pursuant to the State’s rules and regulations and the costs will then be passed to the Vendor.

Once the initial Pilot Model has been approved, no additional inspections will be necessary unless a significant change to the model has occurred. (I.e., model year change or design change) Final inspection and acceptance of all other units will be made at the N.C DOT, Division of Highways Equipment Depot, Raleigh, NC. If required, the pilot model inspection date will be set when a purchase order is issued.

PRE-CONSTRUCTION MEETING

The State reserves the right to require a pre-construction meeting to be held in Raleigh, NC prior to fabrication of the equipment. A representative of the awarded Vendor, who has technical expertise and the authority to make decisions regarding mechanical aspects of the machine, shall be present at the meeting. The meeting is to be scheduled by agreement between the awarded Vendor and representatives from the State of North Carolina and the Purchasing Entity or NCDOT.

4.16 LIQUIDATED DAMAGES

Liquidated damages shall be assessed and deducted from invoice for failure to complete delivery per the **delivery schedule set in accordance with the Purchasing Entity guidelines when a purchase order is issued**. These damages will be calculated at \$77.85 per day, per unit, for any units delivered past the guaranteed delivery date. Failure to provide associated materials (service & parts manuals, etc.) as requested will result in delay of payment.

4.17 REPAIR PARTS

Vendor shall maintain access to a complete inventory of repair parts for the offered equipment, located within the United States, for ten (10) years after the date of acceptance of the equipment. Critical repair parts from this inventory shall be received by the designated repair depot within five (5) working days after request. "Critical Repair Parts" are defined as those parts, which are essential for the safe and proper operation of the machine.

The parties agree that calculation of actual damages resulting from failure to deliver Critical Repair Parts within five (5) working days is extremely difficult, if not impossible, to calculate accurately, and the parties also agree that the compensation identified for each such failures are a reasonable estimate of damages resulting from a failure to timely deliver such parts. Therefore, the parties agree that the Vendor shall be subject to amounts due as liquidated damages but not as a penalty, for each such failure, as follows: the amount of \$54.80 shall be deducted from parts invoice(s) for each working day that completed delivery of such parts is in excess of the five (5) day limit.

This Liquidated Damages will only apply in cases where the parts order has been placed with the Vendor. Liquidated damages shall be assessed for a period of three (3) years from date of acceptance of each piece of equipment purchased under the contract resulting from this IFB.

The State may waive the above repair parts Liquidated Damages in any instance where such non-performance, in the sole determination of the State, is due to factors other than those under control of the Vendor and/or manufacturer.

4.18 TRAINING

Training is required and the awarded Vendor shall furnish a qualified representative to instruct the owner's operators in proper operation, maintenance and service of the equipment for a minimum period of eight (8) hours in up to fourteen (14) location(s), statewide. For "Statewide Term Contracts" the State reserves the right to require training for any additional units purchased during the contract period. The number of training locations may increase or decrease with each purchase order based on the quantity of items purchased. After a period of six (6) months a trouble shooting and repair training session shall be held by a repair technician instructing owner's mechanic in the repair techniques at a location appropriate for the State of North Carolina's needs, each for up to eight (8) hours as deemed appropriate. All training sessions shall be coordinated with and at the convenience of the State of North Carolina through the office of the Fleet Materials Management (919-835-8005) If there's a charge for training it should be included on Attachment A: Pricing Workbook.

4.19 SAMPLE MAINTENANCE ITEMS

One complete set of any filters, including but not limited to oil, fuel, hydraulic or water, used on the offered unit to perform preventative maintenance, shall be delivered with the first unit. Failure to comply with this requirement will result in delay of payment.

4.20 INSTRUCTIONS FOR TITLE INFORMATION (WHEN APPLICABLE)

THE PREPARATION OF MANUFACTURER'S CERTIFICATE OF ORIGIN (MCO) AND MOTOR VEHICLES TITLE APPLICATION (MVR-1) ARE TO BE AS FOLLOWS:

MCO: For NCDOT, In the space indicating **Name of Purchaser(s)**, without additional abbreviations or exceptions, shall always read as follows:

DIVISION OF HWYS / NC DEPT OF TRANSPORTATION / STATE OF NC
4809 Beryl Road
Raleigh, NC 27606

For all other purchasing entities, the vendor is responsible for confirming the correct title information prior to filing.

The name of the selling Dealer must match on the front and the back of the MCO. Also, the GVWR and the Shipping Weight must be filled in on the MCO.

THE MCO MUST BE NOTARIZED. IF ANY OF THE ABOVE REQUIREMENTS FOR THE MCO ARE NOT MET, THE MCO WILL BE REJECTED.

MVR-1: The seller is required to fill in all boxes in the **Vehicle Section** portion of this form. For NCDOT, the **Owner Section** of this form must be filled in as it appears here. For all other purchasing entities, the vendor is responsible for confirming the correct title information prior to filing.

Owner 1 ID # DIVISION OF HWYS

Full Legal Name of Owner 1 or Company Name

Owner 2 ID # NC DEPT OF TRANSPORTATION / STATE OF NC

Full Legal Name of Owner 2 or Company Name

Business Address: 4809 Beryl Rd

City and State Raleigh, NC Zip Code 27606 Tax County Wake

Also, the seller is required to fill in the following boxes of the **MVR-1**.

NC Dealer No.

From Whom Purchased (Name and Address)

Purchase Date

Sales Price

This form can be found at no charge online at www.ncdot.org/dmv/forms/

4.21 EQUIPMENT PREVENTATIVE MAINTENANCE QUESTIONNAIRE (EPMQ)

A completed Equipment Preventative Maintenance Questionnaire (EPMQ) form with supporting documentation must be submitted by the awarded Vendor **within ten (10) days after receipt of Purchase Order**. A blank EPMQ form is included in Attachment H.

The EPMQ form consists of blanks in which servicing information is to be listed for the equipment furnished. This is a generic form and blanks that are not applicable are to be completed with N/A. The information supplied on the EPMQ form is entered in a DOT Division of Highways equipment database that is accessible by all of our shops.

The Purchasing Entity reserves the right to refuse delivery of any equipment until the EPMQ form has been received, approved and accepted. Payment will not be rendered by DOT until the EPMQ form is received and determined to be suitable for use by NCDOT. DELIVERY AUTHORIZATION MUST BE RECEIVED FROM THE PRODUCTION CONTROL MANAGER BEFORE ANY EQUIPMENT IS DELIVERED.

Special Note:

Information provided on the EPMQ form must be correct or awarded Vendor will be assessed for expenses incurred as a result of incorrect information being provided.

Supporting documentation is required with submission of every form.

This supporting documentation can consist of a manual or any part of a manual that supports the service information provided on the EPMQ form. We will accept an owner's manual, operator's manual, parts manual, service manual, technical manual, bill of material, engineering technical document or copies of pages from any of these manuals that contain the required service information. The Purchasing Entity must be able to verify any copies of manuals or pages furnished came from the manufacturer's manual for the make and model of equipment being provided.

4.22 HUB PARTICIPATION

Pursuant to North Carolina General Statute G.S. 143-48, it is State policy to encourage and promote the use of small, minority, physically handicapped, and women contractors in purchasing Goods and Services. As such, this IFB will serve to identify those Vendors that are minority owned or have a strategic plan to support the State's Historically Underutilized Businesses program by meeting or exceeding the goal of 10% utilization of diverse firms as 1st or 2nd tier subcontractors. Vendor shall complete ATTACHMENT D: HUB SUPPLEMENTAL VENDOR INFORMATION.

4.23 REFERENCES

Vendors shall upload to the Sourcing Tool at least three (3) references from different organizations, using ATTACHMENT E: CUSTOMER REFERENCE FORM, for which your company has supplied the exact model of equipment offered. The State may contact these users to determine quality level of the offered equipment; as well as, but not limited to user satisfaction with Vendor performance. Information obtained may be considered in the evaluation of the bid.

4.24 SUSTAINIBILITY EFFORTS

According to G.S. 143-58.2, it is the policy of this State to encourage and promote the purchase of products with recycled content and to purchase items that are reusable, refillable, repairable, more durable, and less toxic to the extent that the purchase or use is practicable and cost effective. The bid must describe, within Attachment H how environmental requirements which relate to clear labeling of the environmental/sustainability attributes (e.g. environmental certifications, total and post-consumer recycled content, etc.) of products in the proposed product catalogs, demonstrating the ability to run usage reports that include information about each product's environmental/sustainability attributes, packaging and recycling of spent products.

4.25 VENDOR'S REPRESENTATIONS

If Vendor's bid results in an award, Vendor agrees that it will not enter any agreement with a third party that may abridge any rights of the State under the contract. If any Services, deliverables, functions, or responsibilities not specifically described in this solicitation are required for Vendor's proper performance, provision and delivery of the Service and deliverables under a resulting contract, or are an inherent part of or necessary sub-task included within such service, they will be deemed to be implied by and included within the scope of the contract to the same extent and in the same manner as if specifically described in the contract. Unless otherwise expressly provided herein, Vendor will furnish all of its own necessary management, supervision, labor, facilities, furniture, computer and telecommunications equipment, software, supplies and materials necessary for the Vendor to provide and deliver the Services and/or other Deliverables.

4.26 FINANCIAL STABILITY

As a condition of contract award, the Vendor must certify that it has the financial capacity to perform and to continue to perform its obligations under the contract; that Vendor has no constructive or actual knowledge of an actual or potential legal proceeding being brought against Vendor that could materially adversely affect performance of this contract; and that entering into this contract is not prohibited by any contract, or order by any court of competent jurisdiction

Each Vendor shall certify it is financially stable by completing the ATTACHMENT G: CERTIFICATION OF FINANCIAL CONDITION. The State is requiring this certification to minimize potential performance issues from contracting with a Vendor that is financially unstable. This Certification shall be deemed continuing, and from the date of the Certification to the expiration of the contract, the

Vendor shall notify the State within thirty (30) days of any occurrence or condition that materially alters the truth of any statement made in this Certification.

4.27 INSURANCE REQUIREMENTS MODIFICATION

A. Default Insurance Coverage from the General Terms and Conditions applicable to this Solicitation:

☐ Contract value in excess of \$1,000,000.00

4.28 LOBBYING ACTIVITY CERTIFICATION FOR FEDERAL GRANTS

Federal law prohibits recipients of federal funds, whether through grants, contracts, or cooperative agreements, from using those funds to influence or attempt to influence (lobby) a federal official in connection with obtaining, extending, or modifying any federal contract, grant, loan, or cooperative agreement. Further, federal law requires that applicants for federal funds certify:

- that they abide by the above restriction.
- that they disclose any permissible (non-federal) paid lobbying on the Federal Awards being applied for; and
- that such certification requirements will also be included in any subawards meeting the applicable thresholds.

Vendors must complete and submit the CERTIFICATION FOR CONTRACTS, GRANTS, LOANS, AND COOPERATIVE AGREEMENTS and the OMB STANDARD FORM LLL when responding to this solicitation.

4.29 SECRETARY OF STATE REGISTRATION

Upon notification of award, the selected vendor(s) shall complete registration with the NC Secretary of State and shall furnish evidence of filing to the Procurement Lead. Failure to provide a proof of registration will result in the removal as a selected vendor(s) from the contract award. Note that any prolonged (longer than ten (10) business days) notification of evidence of filing may result in a disqualification for award.

A contract award under the above-referenced solicitation, and the resulting purchase orders, will produce repeated orders and transactions in North Carolina and will constitute “transacting business” in the State, which requires a certificate of authority from the North Carolina Secretary of State as provided in G.S. §55-15-01 (corporations) or §57D-7-01 (LLCs). Please go to: <https://www.sosnc.gov/> to register.

Vendor registered with the North Carolina Secretary of State: Yes ☐ No ☐

5.0 SCOPE OF WORK AND SPECIFICATIONS

Detailed specifications are outlined in ATTACHMENT I: SPECIFICATIONS FOR TRUCK CAB & CHASSIS 35,000 GVWR and in ATTACHMENT J: SPECIFICATIONS FOR TRUCK TRACTOR, 90,000 GCWR

5.1 GEOGRAPHIC COVERAGE

The Vendor shall provide coverage for all 100 North Carolina Counties.

5.2 SPECIFICATIONS

The specific items and any specifications that the State is seeking are listed below. Items offered by the Vendor must meet or exceed the listed Specifications.

FURNISH AND DELIVER:

TRUCK, CAB & CHASSIS, DIESEL ENGINE POWERED, 35,000 GVWR

General: NCDOT will typically use these trucks in a variety of construction, maintenance and dump truck operations including snow removal. This specification is intended to describe a straight truck with conventional single cab and crew cab, plowing snow and other similar on/off road applications. The warranty shall also include coverage of these units in typical snow removal operation.

1. **Type:** Chassis with conventional cab and crew cab.

Requested

Offered

- a. Manufacturer
- b. Model
- c. Year Model

2. **GVW:** Shall be a minimum rating of 35,000 lbs.

Requested

Offered

- a. GVWR
- b. GCWR
- c. Weight of cab & chassis including lubricant and fuel (full) on front axle for conventional cab.
- d. Weight of cab & chassis including lubricant and fuel (full) on rear axle for conventional cab.
- e. Weight of cab & chassis including lubricant and fuel (full) on front axle for crew cab.
- f. Weight of cab & chassis including lubricant and fuel (full) on rear axle for crew cab.

_____ lbs.

_____ lbs.

_____ lbs.

_____ lbs.

_____ lbs.

_____ lbs.

3. Wheelbase:

| | <u>Requested</u> | <u>Offered</u> |
|----|--|----------------|
| a. | Approximately 188 inch wheelbase for conventional cab. | _____ inches |
| b. | Approximately 200 inch wheelbase for crew cab. | _____ inches |

4. Cab-to-Axle (C. A.) Dimension:

| | <u>Requested</u> | <u>Offered</u> |
|----|---|--|
| a. | C.A. to be 111 inches \pm 1 inch. | _____ inches |
| b. | Left (driver's side) outside frame rail to have enough clear space between the back of the cab and the rear axle to accommodate a hydraulic reservoir and a valve box that collectively measures 56" L including the mounting brackets. | Clear frame rail left side: _____ inches |
| c. | Right (passenger side) outside frame rail to have enough clear space between the back of the cab and the rear axle to accommodate a toolbox that measures 40" L including the mounting brackets. | Clear frame rail right side: _____ inches |

5. Frame:

| | <u>Requested</u> | <u>Offered</u> |
|----|--|--|
| a. | Minimum resisting bending moment (RBM) of 1,500,000 inch/lbs. per frame rail. | _____ in/lbs. |
| b. | Minimum yield strength of 120,000 PSI rated. | _____ PSI |
| c. | Frame rails should be clean from end of cab to rear of frame in both sides of the rails. | Yes <input type="checkbox"/> No <input type="checkbox"/> |

6. Springs and Suspension:

| | <u>Requested</u> | <u>Offered</u> |
|----|--|--|
| a. | Front and rear suspension shall meet the requirements of GVWR. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| b. | Rear springs must have auxiliary leaf or leaves to absorb shock of dump truck loading and to provide additional stability. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| c. | Rear suspension should be a minimum of 23,000 lbs. | _____ lbs. |

- d. Front spring Capacity. _____ lbs.
- e. Rear spring Capacity. _____ lbs.

7. Front Axle:

- | <u>Requested</u> | <u>Offered</u> |
|---|--|
| a. Front axle with minimum 14,000 lbs. rated capacity. | _____ lbs. |
| b. Set forward axle with Shock absorbers. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| c. Wheel bearings oil bath type with synthetic lubricant. | Yes <input type="checkbox"/> No <input type="checkbox"/> |

8. Rear Axle:

- | <u>Requested</u> | <u>Offered</u> |
|--|--|
| a. Single speed rear axle with minimum 23,000 lbs. rated capacity. | _____ lbs. |
| b. Rear axle ratio to match engine RPM, and tire size to achieve 68 MPH \pm 2 MPH @ maximum GVW on level ground. | Axle ratio _____ Speed _____ MPH @ maximum _____ GVW |
| c. Differential shall be filled with synthetic lubricant. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| d. Automatic traction control device is required. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| | Describe _____ |

9. Brakes:

- | <u>Requested</u> | <u>Offered</u> |
|---|--|
| a. Full air disc brakes. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| b. Desiccant type air dryer, Midland Pure Air Plus or Pre-approved equal. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| d. Minimum 18.5 CFM compressor. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| e. Dust shield required on all axles. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| f. Brakes shall conform to FMVSS-121 at time of production. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| i. Shall have emergency parking brake. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| k. Full trailer air package required with glad hands installed at end of chassis rails. | Yes <input type="checkbox"/> No <input type="checkbox"/> |

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| m | The brake air tank shall have a manual drain valve With a lanyard attached to the chassis rail. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| n. | ABS system shall be manufacturer's standard Bendix or Meritor and must be compatible with all manufacturers of trailer brakes. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| p. | Full vehicle wheel control system with automatic traction control system. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

10. Batteries:

- | <u>Requested</u> | <u>Offered</u> |
|---|--|
| a. Battery box and battery mounts designed for on/off road application. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| b. Minimum of 1800 CCA. | _____ CCA |
| c. Hold down clamps and terminals treated with corrosion resistant. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| d. Batteries and cables should comply with TMC105 (Technology Maintenance Council). | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| e. Two remote jump start terminals, battery side mounted with color coded covers. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| f. Shall have a master electrical disconnect switch (non-keyed) on battery side of truck, protected from road splash and accessible from the ground or be mounted in the cab. | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| g. Manufacturer's standard battery box cover. | Yes <input type="checkbox"/> No <input type="checkbox"/> |

11. Alternator:

- | <u>Requested</u> | <u>Offered</u> |
|----------------------|----------------|
| a. Minimum 130 amps. | _____ Amps |
| b. Alternator make. | _____ |
| c. Alternator model. | _____ |

12. Engine Requirements:

- | <u>Requested</u> | <u>Offered</u> |
|--|--|
| a. Full diesel, electronic engine, with inline minimum six (6) cylinders. | Yes <input type="checkbox"/> No <input type="checkbox"/> |

- b. Minimum rated torque 860 lbs./ft and minimum 300HP. Torque _____ lbs./ft
- c. 110 V thermostatically controlled engine block heater properly sized for the engine proposed with receptacle mounted under driver side door. Yes ☐ No ☐
- d. Shall have cold weather starting aid or an internal air intake warmer, compatible with the engine furnished. Yes ☐ No ☐
- e. Shall have engine air intake arranged to eliminate the induction of blowing snow during snow removal operations. Yes ☐ No ☐
- f. Shall be SAE 1349 rated. Yes ☐ No ☐
- g. A copy of the most recent EPA certificate for 2013 Emission is requested with this bid. Yes ☐ No ☐
- h. Shall have thermostatically controlled fuel heater. Yes ☐ No ☐
- i. Shall have on board primer for the fuel system. Yes ☐ No ☐
- j. Shall have all provisions for front engine crankshaft driven hydraulic PTO system as well as rear engine PTO provision. Yes ☐ No ☐
- k. Bidder shall provide and install the plate adapter to harmonic balancer for the front mounted pump application. Yes ☐ No ☐
- l. Shall be compatible for use with B-20 Bio-Diesel fuel. Yes ☐ No ☐
- m. Shall have a fuel water separator. Yes ☐ No ☐
- n. Engine parameters set to allow infinite engine idle time. Yes ☐ No ☐
- o. Shall have a fuel filter. Yes ☐ No ☐
- p. Shall have a full flow, spin on type engine oil filter. Yes ☐ No ☐
- q. Engine Manufacturer. _____
- r. Engine Model. _____
- s. Number of Cylinders. _____
- t. Engine displacement Minimum HP to be 300hp _____
- u. Net HP _____ @ _____ RPM
- v. Peak torque _____ lbs./ft @ _____ RPM
- w. Shall have a corrosion resistant oil pan. Yes ☐ No ☐

13. Engine Performance: The following performance is requested when full loaded as determined by SAE 2188. Rated horsepower and torque shall be sufficient so that when coupled with the proposed transmission and rear axles, the unit will meet the performance criteria listed below:

| | <u>Requested</u> | <u>Offered</u> | |
|----|--|------------------------------|-----------------------------|
| a. | Shall have 20% startability at maximum GVWR to start and climb 20% grade (startability @ clutch engagement). | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| b. | Shall have a minimum 2% gradeability at maximum GVWR @ 68 MPH. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| c. | Shall maintain a minimum top speed of 68 MPH (± 2 MPH) @ maximum GVW on level ground. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| d. | Bidder shall include truck performance analysis sheets indicating the truck performance criteria as described above. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

14. Exhaust:

| | <u>Requested</u> | <u>Offered</u> | |
|----|--|------------------------------|-----------------------------|
| a. | Shall have a vertical stack with horizontal muffler not to extend above cab roof and not to interfere with mounted dump body. A turnout exhaust stack is required (rain cap not acceptable). | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

15. Fuel Tank:

| | <u>Requested</u> | <u>Offered</u> | |
|----|---|------------------------------|-----------------------------|
| a. | Single, aluminum fuel tank. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| b. | Minimum 70 gallons capacity. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| c. | Mounted on the left side preferred. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| d. | Furnish a step type with slip resistant step. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

16. Air Cleaner:

| | <u>Requested</u> | <u>Offered</u> | |
|----|---|------------------------------|-----------------------------|
| a. | Dry type, with rated air flow for engine offered with filtration efficiency of 99.5% for all engine speeds. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| b. | Direct reading air restriction indicator mounted in cab. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

17. Cooling System:

| | <u>Requested</u> | <u>Offered</u> | |
|----|--|------------------------------|-----------------------------|
| a. | Shall conform to SAE J1393, ASTM standards and Manufacturer recommendations for on-off road application. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| b. | Shall have extended life coolant. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

- 18. Gauges** Shall include manufacturer's standard DID (Drivers Information Display) gauge package, including the following gauges as a minimum:

| | <u>Requested</u> | <u>Offered</u> | |
|----|--|------------------------------|-----------------------------|
| a. | Oil pressure | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| b. | Temperature | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| c. | Voltmeter | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| d. | Fuel | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| e. | Pressure | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| f. | Tachometer | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| g. | Engine Hour meter | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| h. | Audible and visual alarm for high water temperature. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| i. | Audible and visual alarm for oil pressure. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| j. | Audible and visual alarm for low air pressure. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

19. Automated Manual Transmission:

| | <u>Requested</u> | <u>Offered</u> | |
|----|---|------------------------------|-----------------------------|
| a. | Minimum of 12 speeds | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| b. | Transmission manufacturer: | _____ | |
| c. | Transmission model: | _____ | |
| d. | Torque capacity: | _____ | |
| e. | Transmission control shall be push pad, dash mounted shifter. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| f. | Shall be equipped with oil level sensor. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| g. | Transmission shall be equipped with auto-neutral feature to be activated when parking brake is applied to command the | | |

transmission to neutral, regardless of range selection.

Yes ☐ No ☐

h. Furnished with synthetic transmission lubricant.

Yes ☐ No ☐

i. If electronically controlled, the transmission shall not create RF interference with user installed 2-way radios.

Yes ☐ No ☐

j. Transmission electronic control module shall be located in a position that protects it from weather and road splash to minimize exposure to corrosive elements.

Yes ☐ No ☐

20. Automatic transmission:

Requested

Offered

a. Fully automatic, six (6) speed.

Yes ☐ No ☐

b. Allison World Transmission 3500 RDS with wide Ration, for on/off road.

Yes ☐ No ☐

c. Transmission manufacturer:

d. Transmission model:

e. Torque capacity:

f. Transmission control shall be push pad, dash mounted shifter.

Yes ☐ No ☐

g. Shall be equipped with oil level sensor.

Yes ☐ No ☐

h. Transmission shall be equipped with auto-neutral feature to be activated when parking brake is applied to command the transmission to neutral, regardless of range selection.

Yes ☐ No ☐

i. Furnished with synthetic transmission lubricant.

Yes ☐ No ☐

j. If electronically controlled, the transmission shall not create RF interference with user installed 2-way radios.

Yes ☐ No ☐

k. Transmission electronic control module shall be located in a position that protects it from weather and road splash to minimize exposure to corrosive elements.

Yes ☐ No ☐

21. Windshield Wipers:

Requested

Offered

a. Electric, dual wipers.

Yes ☐ No ☐

b. Intermittent action.

Yes ☐ No ☐

c. Dual washers

Yes ☐ No ☐

22. Wheel Rims:

| | <u>Requested</u> | <u>Offered</u> | |
|----|--|------------------------------|-----------------------------|
| a. | Aluminum disc type wheels, 10 hole. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| b. | Hub piloted. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| c. | Front and rear rims 8.25 inches wide. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| d. | Nylon Gasket to prevent corrosion to hub | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| e. | Rims shall conform to Tire & Rim Association guidelines. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| f. | Wheels shall have Dura-Bright polish or Equivalent to aid in corrosion resistance. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| g. | Rim manufacturer. _____. | | |

23. Front Tires:

| | <u>Requested</u> | <u>Offered</u> | |
|----|---|------------------------------|-----------------------------|
| a. | 11R22.5 steel belted radial. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| b. | Minimum load range "H". | Load range _____ | |
| c. | Premium highway treads. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| d. | Good year G159A, or Michelin XZE-2 or pre-approved equal. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| e. | Tire manufacturer. | _____ | |
| f. | Tire model. | _____ | |

24. Rear Tires:

| | <u>Requested</u> | <u>Offered</u> | |
|----|---|------------------------------|-----------------------------|
| a. | 11R22.5 steel belted radial. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| b. | Minimum load range "H". | Load range _____ | |
| c. | Premium highway treads. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| d. | Good year G164, or Michelin XZY3 or pre-approved equal. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| e. | Tire manufacturer. | _____ | |
| f. | Tire model. | _____ | |

25. Lighting:

| | <u>Requested</u> | <u>Offered</u> | |
|--|------------------------------|-----------------------------|--------------------------|
| a. Factory installed daytime running lights. | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |
| b. The standard headlight switch shall operate all lights in the normal mode at full voltage. | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |
| c. Front and rear Class "A" directional signals. | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |
| d. Minimum, five (5) cab marker lights. | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |
| e. Hazards flashers. | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |
| f. All lighting to be of the type approved by the N.C. Division of Motor Vehicles. | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |
| g. Must have a Pre-Trip exterior light inspection switch: Engaging light inspection switch will sequentially flash all exterior vehicle lights, except back up lights while operator completes safety inspection. | Yes <input type="checkbox"/> | No <input type="checkbox"/> | <input type="checkbox"/> |

26. Front Bumper:

| | <u>Requested</u> | <u>Offered</u> | |
|--|------------------------------|-----------------------------|--|
| a. Delete front bumper. | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |
| b. Front frame rail shall be full height, no tapered frame. Frame extension shall be a minimum of 24 inches to accommodate the front pump provision (FEPTO). | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |

27. Electrical Wiring:

| | <u>Requested</u> | <u>Offered</u> | |
|--|------------------------------|-----------------------------|--|
| a. All wiring from front to rear of chassis in loom or molded plastic or approved equal. | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |
| b. Wiring Should be attached to inner side rails with rubber covered fasteners at approx. 20" intervals. | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |
| c. Wiring, including a weatherproof connector shall be provided at the hood-hinge area for connection of snow plow lights. | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |
| d. The connector shall include parking light and turn Signal functions. | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |

- e. A body builder harness, including a weather proof connector shall be provided at the back of the cab. Yes ☐ No ☐
- f. Must have factory installed Telematics, GPS that reads Datalink information and is compatible with and communicates with ATT/Geotab database for utilization tracking. Yes ☐ No ☐

28. Auxiliary Power Switches: Shall have six (6) factory installed, dash mounted Auxiliary power switches wired for the following functions:

- | <u>Requested</u> | <u>Offered</u> | |
|--|------------------------------|-----------------------------|
| a. <u>Snowplow light</u> selector switch to allow independent selection of the chassis headlights or the snow plow lights. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| b. Strobe light switch, illuminated, on/off type, battery source, minimum 20 AMP. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| c. <u>Spreader light</u> switch, illuminated, on/off, ignition source minimum 20 AMP. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| d. Two (2) illuminated switch, on/off type, ignition source, minimum 20 AMP for future use. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| e. One (1) illuminated switch, on/off type, battery source, minimum 20 AMP for future use. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

29. Cab: Cab should be a single or crew cab as per "Furnish and Deliver". Bidder may be required to demonstrate the cab offered during the evaluation process.

- | <u>Requested</u> | <u>Offered</u> | |
|---|------------------------------|-----------------------------|
| a. Shall have factory installed air-conditioning. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| b. Shall have electronic cruise control. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| c. Shall have exterior and interior grab handle handholds for all doors including crew cab. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| d. Shall have steps for high cab applications for both Driver, and passenger side front and rear (for crew cab). | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| e. First step from ground and succeeding step spacing not to exceed 20 inches. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| f. Shall have tinted safety glass all around including Windshield. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| g. Driver and passenger seats shall be air ride, adjustable up, down, forward, back and tilt. (National Cush-n-Air or equal). | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| h. Both seats shall be high-back each with lap and shoulder | | |

seatbelts, and for crew cab when applicable. Shoulder straps shall be high visibility orange.

Yes ☐ No ☐

i. Shall have 12V power supply outlet.

Yes ☐ No ☐

j. Shall have fresh air heater and defroster.

Yes ☐ No ☐

k. Shall have standard door locks, right and left padded sun visor, drivers and passenger side arm rest, map pocket and floor mat(s).

Yes ☐ No ☐

l. Shall have AM/FM radio, shielded to eliminate interference from 2-way radio with Blue tooth capabilities.

Yes ☐ No ☐

m. Shall have a fixed grill with radiator guard and tilt hood.

Yes ☐ No ☐

n. Shall have a tilt and telescoping steering wheel.

Yes ☐ No ☐

o. Electronic speedometer with auxiliary in-cab tap Point to interface with current electric spreader controls with pulse width modulated signal and have an additional sensor/DC817-008.

Yes ☐ No ☐

p. Cab shall have no-glare interior.

Yes ☐ No ☐

q. Cab must be ergonomically designed to accommodate 95% percentile of drivers, ranging from 4' 8", 110 lb. driver to 6' 5", 375 lb. driver.

Yes ☐ No ☐

r. For crew cab, a full bench rear seat with 3 laps and 2 shoulder belts. Shoulder straps shall be high visibility orange.

Yes ☐ No ☐

30. Mirrors:

Requested

Offered

a. Dual left and right west coast or approved equal.

Yes ☐ No ☐

b. Approximately 7-inch X 17 inch heads.

Size: _____

c. Both west coast mirrors shall be heated.

Yes ☐ No ☐

d. Left side mirror should have two (2) convex mirrors, one each mounted on upper and lower arms of mirror bracket.

Yes ☐ No ☐

e. Left and Right-side mirrors shall be motorized.

Yes ☐ No ☐

f. Right side mirror shall have one (1) convex mirror mounted on lower mirror arm.

Yes ☐ No ☐

g. All three (3) convex mirrors shall be ball adjustable.

Yes ☐ No ☐

- h. Shall have fender mounted (left and right side) 8-inch convex mirrors. Yes ☐ No ☐
- i. Overall width, outside mirror to outside mirror should not exceed 116 inches. Yes ☐ No ☐

31. Horns:

Requested

Offered

- a. Dual, electric and air horn is required, approved by SAE and industry standard and mounted under the hood. Yes ☐ No ☐

32. Power Steering:

Requested

Offered

- a. Power steering, designed and intended for the tires, axles and GVWR offered. Yes ☐ No ☐

33. Fire Extinguisher:

Requested

Offered

- a. An ABC rechargeable type fire extinguisher with 5BC UL rating shall be provided with each unit. Mounting will be determined at the Pilot Model inspection. Yes ☐ No ☐

34. Safety:

Requested

Offered

- a. Vehicles shall include the necessary safety features to meet the applicable requirements of the Federal Vehicles Safety Standards and shall conform with Motor Carrier Safety Regulations # 399.203 Yes ☐ No ☐
- b. The vehicle to be furnished with all applicable equipment and accessories as required by the Occupational Safety and Health Acts of both the United States and the State of North Carolina, and shall comply with all regulations, rules, standards and interpretations lawfully adopted there under. Yes ☐ No ☐
- c. Vehicle Cab noise at ear level of the seated operator, with windows open shall not exceed OSHA REQUIREMENTS IN 29 CFR 1910.95 for 8-hour exposure when measured on the "A" scale of a standard sound meter. Ear plugs or other personal protective devices are not acceptable to comply with this requirement. Yes ☐ No ☐

- d. OSHA requirements on the opening date of the IFB shall apply, regardless of the date of Equipment manufactured.

Yes ☐ No ☐

35. Federal Inspection Sticker:

Requested

Offered

- a. All units shall be delivered with a completed 12-month Federal Highway Safety Inspection sticker properly affixed.

Yes ☐ No ☐

GENERAL: NCDOT will typically use these units in transporting heavy equipment to and from job site. Equipment types normally carried by this tractor will include, but shall not be limited to, heavy excavators and other heavy construction and maintenance equipment common to highway construction. The tractor will normally be mated to a heavy 3-axle lowboy trailer and required to operate in both on/off-road situations typical of other tractors used to transport construction equipment.

REQUESTED

OFFERED

1. **Type:** Heavy-duty truck tractor intended for on/off road service.

- a. Manufacturer: _____
- b. Chassis Model: _____
- c. Year Model: _____

2. **GCWR:** Minimum 90,000 lbs. **GVWR:** 60,000.

- a. GCWR _____ lbs.
- b. GVWR _____ lbs.
- c. Chassis weight on front axle. _____ lbs.
- d. Chassis weight on rear tandem. _____ lbs.
- e. Weight of cab & chassis including lubricant and full load of fuel. _____ lbs.

3. CT:

- a. CT (measuring from the back of the cab to the center of tandem rear Axle) and it should be appropriate for the Fifth wheel setting and axle spacing. _____ inches

4. Wheelbase:

- a. Wheelbase shall be appropriate for the axle and CT dimensions required to achieve the axle load requirements and satisfy the laws of North Carolina, Bridge formula, and the Federal laws. _____ inches

5. Frame:

- a. Minimum resisting bending moment of 2,000,000 inch/lbs. per frame rail. RBM _____ in/lbs. _____

6. Springs and Suspension:

- a. Front and rear suspension shall meet or exceed the requirements for GVWR. Yes ☐ No ☐
- b. Rear suspension to be Air ride type suspension. Yes ☐ No ☐
- c. Front suspension offered. _____
- d. Rear suspension offered. _____
- e. Front spring capacity. _____ lbs.
- f. Rear spring capacity. _____ lbs.

7. Front Axle:

- a. Front axle to be minimum 14,000 lbs. rated capacity. Capacity _____ lbs.
- b. Set forward axle with shock absorbers designed for on/off road. Yes ☐ No ☐
- c. Wheel bearings oil bath type with synthetic lubricant. Yes ☐ No ☐

8. Rear axles:

- a. Rear axle with a minimum 46,000 lbs. rated capacity. _____ lbs.
- b. Rear axle make and Model. _____
- c. Single speed tandem. Yes ☐ No ☐
- d. Power divider lock with an indicator light visible to the operator or approved equivalent. Yes ☐ No ☐
- e. Power divider offered. Type _____
Model _____
Manufacturer _____
- f. Spacing of the axles of the tandem shall provide enough clearance to allow for snow chains to be run on both axles with the tires specified in this bid. Yes ☐ No ☐
- g. Axle ratio provided is to be properly matched for engine RPM, tire size and transmission offered to maintain 72 MPH \pm 2 MPH at a maximum GVW on level ground. Yes ☐ No ☐
- h. Axle ratio. _____
- i. Differentials filled with synthetic lubricant. Yes ☐ No ☐

9. Brakes:

- a. Full air "S" Cam. Yes ☐ No ☐
- b. Low air warning buzzer and light. Yes ☐ No ☐
- c. Non asbestos shoes. Yes ☐ No ☐
- d. Desiccant type air dryer, Midland Pure Air Plus or pre-approved equal. Yes ☐ No ☐
- e. Automatic slack adjusters. Yes ☐ No ☐
- f. Minimum 19.0 CFM air compressor _____ CFM

- g. Parking brake on front and rear axle of tandem. Yes ☐ No ☐
- h. Dust shields on all axles. Yes ☐ No ☐
- i. Brakes shall conform to FMVSS in effect at time of production. Yes ☐ No ☐
- j. Minimum 16 ½ inches x 5 inches front. _____ X _____
- k. Minimum 16 ½ inches x 7 inches rear. _____ X _____
- l. Full trailer air package required with glad hands installed such that They can attached to the trailer without further modification by the User; holders are required. Yes ☐ No ☐
- m. The brake air tank shall have a manual drain valve with a lanyard attache to the outside of chassis rail. Yes ☐ No ☐
- n. ABS system to meet FMVSS and to be manufacturer's standard Bendix or Meritor and must be compatible with all manufacturers of trailer brakes. Yes ☐ No ☐
- o. ABS manufacturer. _____
- p. ABS model. _____
- q. Air brake ABS, full vehicle wheel control system with automatic traction control (ATC). Yes ☐ No ☐

10. Batteries:

- a. Battery box and battery mounts designed for on/off road applications. Yes ☐ No ☐
- b. Minimum of 2200 CCA at zero (0) degrees F. Yes ☐ No ☐
- c. Hold down clamps and terminals treated with corrosion resistant substance. Yes ☐ No ☐
- d. Batteries and cables to comply with TMC105. Yes ☐ No ☐
- e. 2 remote jump start terminals, battery side mounted with color coded covers. Yes ☐ No ☐
- f. Shall have a master lever type electrical disconnect switch (non-non-keyed) on battery side of truck, protected from road splash and accessible from the ground. Yes ☐ No ☐
- g. Manufacturer's standard battery box cover. Yes ☐ No ☐

11. Alternator:

- a. Delco SI or approved equal. Yes ☐ No ☐
- b. Minimum 180 amps. _____ AMP
- c. Alternator manufacturer. _____
- d. Alternator model. _____

12. Engine Performance: The Bidder is required to furnish, with the bid, a copy of the performance calculations for the truck offered when coupled to a lowboy equipment trailer, as per the following requirements.

- | | | | | | |
|----|--|----------------------------|--------------------------|----|--------------------------|
| a. | Full diesel, electronic engines, minimum six (6) cylinders. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Shall be SAE J1349 rated. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Minimum rated torque 1700 lbs/ft. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Shall have 25% startability at maximum GVWR (startability @ clutch engagement). | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. | Shall maintain a minimum top speed of 72 MPH @ 1 ½ gradeability at maximum GVWR. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| f. | Bidder shall include truck performance analysis sheet(s) indicating the truck performance criteria as described above. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| g. | Engine manufacturer. | _____ | | | |
| h. | Engine model. | _____ | | | |
| i. | Number of cylinders. | _____ | | | |
| j. | Net HP, minimum of 500 hp. | _____ @ _____ RPM | | | |
| k. | Peak torque | _____ lbs./ft. @ _____ RPM | | | |

12A. Engine Requirements Continued:

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| a. | Engine offered shall meet all emissions control system set by EPA requirements, Federal and NC State regulations at the time of delivery. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | 110 V thermostatically controlled engine block heater properly sized for the engine proposed with weatherproof receptacle mounted under left door (Driver side). | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Shall have cold weather starting aid, compatible with the engine furnished. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Shall have in-line fuel heater. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. | Shall have on board primer for the fuel system. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| f. | Shall be compatible for use with B-20 Bio-Diesel fuel. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| g. | Shall have a fuel water separator. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| h. | Shall have full flow, spin on type engine oil filter. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

13. Engine Brake:

- | | | | | | |
|----|---|-------|--------------------------|----|--------------------------|
| a. | Shall be a compression type or approved equal, compatible with the engine and transmission furnished. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Engine brake manufacturer. | _____ | | | |
| c. | Engine brake model. | _____ | | | |

14. Exhaust:

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| a. | Shall be a vertical stack with deflector. (Rain cap not acceptable). | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
|----|--|-----|--------------------------|----|--------------------------|

15. Fuel Tank:

- | | | | | | |
|----|---|---------------|--------------------------|----|--------------------------|
| a. | Single fuel tank, minimum 100 gallons. | _____ Gallons | | | |
| b. | Fuel tank to be aluminum, <u>aluminized-steel not acceptable.</u> | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Shall conform to all applicable SAE Standards. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

d. Preferable left side mounted.

Location: _____

16. Air Cleaner:

- | | | | | |
|--|-----|--------------------------|----|--------------------------|
| a. Dry type, with rated air flow for engine offered with filtration efficiency of 99.5% for all engine speeds. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. In cab direct reading air restriction indicator. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

17. Cooling System:

- | | | | | |
|---|-----|--------------------------|----|--------------------------|
| a. Cooling system conforming to SAE J1393, ASTM Standards and manufacturer recommendations for on-off road application. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. Shall have manufacturer's suggested coolant type. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

18. Gauges: Shall include manufacturer's standard digital gauge package, including the following gauges as a minimum:

- | | | | | |
|---|-----|--------------------------|----|--------------------------|
| a. Oil pressure. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. Temperature. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. Voltmeter. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. Fuel. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. Dial type air pressure. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| f. Dial type tachometer. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| g. Hour meter. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| h. Audible and visual alarm for high water temperature. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| i. Audible and visual alarm for low oil pressure. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

19. Manual Transmission:

- | | | | | |
|---|----------------|--------------------------|----|--------------------------|
| a. Minimum torque capacity of 1700 lbs/ft. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. Eaton RTLO-16913A or approved equal, properly matching engine and axle ratio. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. Shall allow easy downshifting to lower gears without bringing vehicle to stop. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. Furnished with synthetic transmission lubricant. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. Transmission manufacturer. | _____ | | | |
| f. Transmission model. | _____ | | | |
| g. Torque capacity. | _____ lbs./ft. | | | |

20. Clutch:

- | | | | | |
|--|--------------|--------------------------|----|--------------------------|
| a. Easy pedal plus or approved equal with minimum of 15.5 inches. | _____ inches | | | |
| b. Minimum 2 plates cerametallic or equivalent | _____ Plates | | | |
| c. An extended lube line for the clutch release bearing is required. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. Clutch manufacturer. | _____ | | | |
| e. Clutch model. | _____ | | | |

21. Hydraulics: The truck tractor is required to have a transmission PTO driven pump, with in-cab engagement, providing sufficient hydraulic flow and power to operate the trailer, which will normally be a 50 ton rated, drop deck equipment hauling trailer with a 12,000 pound winch.

- | | | | | |
|---|-----------------------|--------------------------|----|--------------------------|
| a. Complete hydraulic system including pump, filters, pressure relief valve, and metal reservoir. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. Bidder shall provide an oil cooler sufficient size to limit overheating. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. Hydraulic hoses should be minimum 9 Ft. in length. | Length of hoses _____ | | | |
| d. Controls for operation of the trailer will be furnished by the trailer | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

22. Windshield Wipers:

- | | | | | |
|---------------------------|-----|--------------------------|----|--------------------------|
| a. Electric, dual wipers. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. Intermittent action. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. Dual washers. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

23. Wheel Rims:

- | | | | | |
|---|-------|--------------------------|----|--------------------------|
| a. Standard disc type wheels, 10 hole. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. Hub piloted. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. Rims shall conform to Tire & Rim Association guidelines. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. Rim manufacturer. | _____ | | | |

24. Front Tires:

- | | | | | |
|---|-------|--------------------------|----|--------------------------|
| a. 12R22.5 steel belted radial. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. Load Range H (16 Ply). | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. Premium highway treads. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. Michelin XDN2, or Good Year G149, or approved equal. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. Tire manufacturer | _____ | | | |

If different from above:

- | | |
|---------------------|-------|
| a. Tire size. | _____ |
| b. Tire load range. | _____ |
| c. Tire model. | _____ |

25. Rear Tires:

- | | | | | |
|--|-------|--------------------------|----|--------------------------|
| a. 12R22.5 steel belted radial. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. Load range H (16 PLY). | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. Michelin XZY3, Good Year G164, or approved equal. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. Tire manufacturer. | _____ | | | |

If different from above:

- | | |
|---------------------|-------|
| a. Tire size. | _____ |
| b. Tire load range. | _____ |
| c. Tire model. | _____ |

26. Lighting:

- | | | | | |
|--|-----|--------------------------|----|--------------------------|
| a. Factory installed daytime running lights. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. Front and rear Class "A" directional signals. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. Minimum, five cab marker lights. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. Hazard flashers | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. All lighting to be of the type approved by the N.C. Division of Motor Vehicles. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| f. | Must have a Pre-Trip exterior light inspection switch: Engaging light inspection switch will sequentially flash all exterior vehicle lights, except back up lights while operator completes safety inspection. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| g. | Factory installed Fog lights mounted in the front bumper. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

27. Front Bumper:

- | | | | | | |
|----|---|-----|--------------------------|----|--------------------------|
| a. | Manufacturer's standard heavy front bumper. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
|----|---|-----|--------------------------|----|--------------------------|

28. License Plate bracket:

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| a. | License bracket mounted with light in the rear of truck. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
|----|--|-----|--------------------------|----|--------------------------|

29. Electrical Wiring:

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| a. | All wiring from the front to rear of chassis shall be encased in a loom, molded plastic or pre-approved equal protective covering. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Wiring to be attached to inner side rails with rubber covered fasteners at approximately 20" intervals. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

30. Cab: Bidder may be required to demonstrate the cab during the evaluation process:

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| a. | Conventional cab with factory installed air-conditioning. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Shall have electronic cruise control. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Shall have air ride cab. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Shall have exterior and interior grab handle handholds on both sides. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. | Shall have steps for high cab applications for both driver and passenger side. First step height approximately 17 inches. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| f. | Shall have tinted safety glass throughout including windshield. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| g. | Driver and passenger seats shall be air ride and adjustable up, down, forward, back and tilt, arm rests. (National Cush-n-Aire or pre-approved equal). | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| h. | Both seats shall be high-back, each with lap and shoulder seatbelts. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| i. | Shall have 12V power supply outlet. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| j. | Shall have fresh air heater and defroster with single shut-off valve for water line to heater. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| k. | Shall have power door locks, and power windows, right and left padded sun visor, driver/passenger side arm rest, map pocket and floor mats. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| l. | Shall have AM/FM/CD/blue tooth radio, shielded to eliminate interference from 2-way radio. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| m. | Tilt and telescoping steering wheel. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| n. | Cab access and function must be ergonomically designed to accommodate 95% percentile of drivers ranging from a 4 Ft. 8 In., 110 Lb. driver to a 6 Ft. 5 In., 375 Lb. driver. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| o. | Rear mounted light on back of cab. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

31. Fire Extinguisher:

- | | | | | | |
|----|---|-----|--------------------------|----|--------------------------|
| a. | Shall be ABC type, rechargeable and mounted in the cab. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Unit shall have a UL rating of 10BC. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

32. Mirrors:

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| a. | Left and right west coast type, with approximately 7"x17" replaceable heads. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Both west coast mirrors heated. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Right and left side mirrors to be motorized, adjustable and controlled by | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

the driver.

- d. Each mirror to have approximately 8 inches diameter convex mirrors, bottom bracket mounted, ball adjustable. Yes ☐ No ☐
- e. Overall width, outside mirror to outside mirror not to exceed 110 inches (width of the cab and mirror extension should not exceed 110 for safety concerns.) Overall width _____

33. Horn(s):

- a. Dual horns, one electric and one air horn per SAE and industry standard. Yes ☐ No ☐

34. Power Steering:

- a. Power steering, designed and intended for the tires, axles and GVWR offered. Yes ☐ No ☐

35. Fifth Wheel: Bidder is to confirm that the below data will provide for the axle loading specified above and that the selected trailer will properly attach without modification by the User.

- a. Air slide with left side operation Yes ☐ No ☐
- b. Mounted such that the kingpin can be located from directly over the Center of the tandem to 24 inches forward. Yes ☐ No ☐
- c. Fontaine model H7000 AWB 24 Heavy Duty - 4" increments. Model _____
- d. Height shall be between 51 inches to 52 inches. Yes ☐ No ☐

36. Trailer Connection:

- a. Break away valve. Yes ☐ No ☐
- b. Air check valve Yes ☐ No ☐
- c. Hand control valve Yes ☐ No ☐
- d. Hose, spring cab hangers Yes ☐ No ☐
- e. Berg (7) wire connector or equivalent, with holder and cable for both ABS and non ABS. Yes ☐ No ☐
- f. FMVSS compatible Yes ☐ No ☐
- g. Wet line kit for hook up of semi-trailer, mounted behind the cab. Yes ☐ No ☐
- h. Quick disconnect fittings shall comply with ISO 7241-1 series B Yes ☐ No ☐
- i. Sufficient reservoir capacity and oil cooler to ensure maximum of 100 degree F rise. Yes ☐ No ☐
- j. Pogo Stick and slid bar shall be installed. Yes ☐ No ☐

37. Safety:

- a. Vehicles shall include the necessary safety features to meet the applicable requirements of the Federal Motor Vehicles Safety Standards and shall conform with Motor Carrier Safety Regulations #399.203. Yes ☐ No ☐
- b. The vehicle to be furnished with all applicable equipment and accessories as required by the Occupational Safety and Health Act of both the United States and the State of North Carolina, and shall comply with all regulations, rules, standards and interpretations lawfully adopted there under. Yes ☐ No ☐

- c. Vehicle cab noise at ear level of the seated operator, with windows open shall not exceed OSHA requirements in 29 CFR 1910.95 for 8-hour operating exposure when measured on the "A" scale of a standard sound meter. Ear plugs or other personal protective devices are not acceptable to comply with this requirement. Yes ☐ No ☐
- d. OSHA requirements on the opening date of the IFB shall apply, regardless of the date of equipment manufactured. Yes ☐ No ☐

38. Federal Inspection Sticker:

- a. All units to be delivered with a completed 12 month Federal Highway Safety Inspection sticker properly affixed. Yes ☐ No ☐

Item 2: TRUCK TRACTOR, Tri - Axle 140,000 lb. GCWR

This specification is for the purchase of a heavy duty 140,000 lb. GCVWR truck tractor for use by the North Carolina Division of Highways in transporting heavy equipment to and from a job site. Equipment types normally carried by this tractor will include, but shall not be limited to, heavy excavators and other heavy construction and maintenance equipment common to highway construction. The tractor will normally be mated to a heavy 3-axle lowboy equipment trailer and will be required to operate in both on and off-road situations typical of other tractors used to transport construction equipment.

REQUESTED

OFFERED

1. Type: Heavy-duty truck tractor intended for on/off road service.

- a. Manufacturer: _____
- b. Chassis Model: _____
- c. Year Model: _____

2. GCWR: Minimum 140,000 lbs. GVW: Appropriate to achieve **GCWR** loads given.

- a. GCWR. _____ lbs.
- b. GVWR. _____ lbs.
- c. Chassis weight on front axle. _____ lbs.
- d. Chassis weight on rear tandem. _____ lbs.
- e. Weight of cab & chassis including lubricant and full load of fuel. _____ lbs.

3. CT (Cab to Axle):

- a. CT: From back of the cab to the center of the tandem on the rear axle. _____ inches
Must be appropriate for the fifth wheel setting and axle spacing.

4. Wheelbase:

- a. Wheelbase shall be appropriate for the axle and CT dimensions to achieve the axle load requirements and satisfy the Laws of North Carolina, Bridge formula and the Federal laws. _____ inches

Axle spacing
(Bridge formula): _____

5. Frame:

- a. Frame: Resisting bending moment minimum of 2,000,000 in. lbs. RBM: _____ In/lbs.

6. Springs and Suspension:

- a. Spring capacity for front and rear suspension must meet, or exceed, the axle rating. Front spring capacity: _____
Rear suspension to be either Hendrickson model HAS-460-55 "Air" or Rear spring capacity: _____

Rear suspension offered:

Capacity_____ lbs.

Yes ☐ No ☐

Yes ☐ No ☐

7. Front Axle:

- a. Front axle to be minimum 18,000 lb. rated capacity with the heaviest duty shock absorbers, designed and recommended for on- off-road service.
- b. Set forward axle with heavy duty shock absorbers designed for On/off road.
- c. Should have front synthetic oil seals/bath for the front wheel bearings.

Capacity_____ lbs.

Make: _____

Model: _____

Yes ☐ No ☐

Type: _____

Make: _____

Model: _____

Yes ☐ No ☐

Yes ☐ No ☐

Axle Ratio: _____

Axle Make: _____

Capacity:_____ lbs.

Auto reverse _____Y/N

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Make: _____

8. Rear Axle:

- a. Rear axle with a minimum 46,000 lbs. rated capacity.
- b. Rear axle make and model.
- c. Single speed tandem.
- d. Power divider lock with an indicator light visible to the operator or approved equivalent. If the tandem is Mack design (automatically Selected power divider), no lock or light is required.
- e. Spacing of the axle of the tandem shall provide enough clearance to allow for snow chains to be run on both axles with the tires specified in this bid.
- f. Differentials must be filled with synthetic lubricant.
- g. Axle ratio provided must be properly matched for engine RPM, tire size and transmission offered to maintain 72 MPH \pm 2 MPH at a maximum GVW on level ground.

9. Lift Axle:

- a. A steerable 13,000 Lbs capacity lift axle with auto reverse is required.
- b. Lift axle shall be equipped with Two (2) disc type wheels and 11R 22.5, 14 ply rated tires. 5 hub piloted disk.
- c. Lift axle must be installed by the chassis manufacturer.
- d. Air activated from cab.
- e. Automatic lift in reverse.

10. Brakes:

- a. Full air, "S" Cam type.
- b. Desiccant type air dryer, Midland pure air plus or equal.

- c. Automatic slack adjusters are required. Yes ☐ No ☐
- d. Minimum 18.7 CFM air compressor with low air warning. _____ CFM
- e. Low air warning buzzer and light. Yes ☐ No ☐
- f. Parking brake on both tandem axles. Yes ☐ No ☐
- g. Dust shields required on all axles. Yes ☐ No ☐
- h. ABS system brakes must meet current FMVSS and other related standards; must be manufacturers' Bendix or Meritor, 4 channel.
ABS Manufacturer: _____
ABS Model: _____
- i. Shall have standard manufactured air disc brakes based on the GVWR listed above.
Make: _____ Model: _____
- k. Full trailer air package required; glad hands shall be installed such that they can be attached to the trailer without further modification by the user; holders required. Yes ☐ No ☐
- l. The brake air tank must have a manual drain valve with a lanyard attached to the outside chassis rail. Yes ☐ No ☐
- m. Air brake ABS, full vehicle wheel control system with automatic traction control (ATC). Yes ☐ No ☐
- 11. Batteries:**
- a. Battery and battery mounts must be heavy duty or severe service for on/off road applications. Yes ☐ No ☐
- b. Minimum total of 3000 CCA at zero (0) degrees F. Manufacturer mast. Determine number of batteries needed to achieve the CCA required.
Number of batteries _____
Total CCA: _____
CCC/Batteries: _____
- c. Hold down clamps and terminals treated with corrosion resistant substance. Yes ☐ No ☐
- d. Battery and cable to comply with TMC105. Yes ☐ No ☐
- e. Remote jump starting terminals shall be battery side mounted with color coded covers. Yes ☐ No ☐
- f. Shall have a master lever type electrical disconnect switch (non-keyed) on the battery side of truck installed in a location which is protected from road splash. Wires to switch shall be same gauges as battery cables. (No keys allowed for electrical disconnect). Yes ☐ No ☐
- g. Manufacturer's standard battery box cover. Yes ☐ No ☐

12. Alternator:

- a. Delco SI or equal. Make: _____
Model: _____
- b. Minimum 180 amps. _____ AMP

13. Engine Performance:

The Bidder is required to furnish, with the bid, a copy of the performance calculations for the truck offered when coupled to lowboy equipment trailer, as per the following requirements.

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| a. | Must be SAE J1349 rated. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Shall have 25% startability at maximum GVWR (startability @ clutch engagement) Startability @ Max. GVWR: _____ | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Shall maintain a minimum top speed of 72 MPH @ 1 ½ gradeability at maximum GVWR. Top Speed with Max. GVWR @ 1 ½ gradeability: _____MPH | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Engine shall meet all emissions control system set by EPA requirements, Federal and NC State regulations at the time of delivery. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. | Engines shall be compatible for use with B-20 Bio-Diesel fuel. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

Truck performance analysis sheet is provided with the bid _____Yes/No.

A copy of the most recent EPA certification must be provided with the bid _____Yes/No.

14. Engine:

- | | | | | | |
|----|--|---|--------------------------|----|--------------------------|
| a. | Engine: Full diesel, electronically controlled, minimum six (6) cylinders, Minimum HP to be 500. | Manufacturer: _____ Model: _____ Displacement: _____ Number of cylinders: _____ Rated Net H.P. _____ H.P @ _____ RPM. Peak Torque _____ lb.ft @ _____ RPM. | | | |
| b. | 110 V thermostatically controlled engine block heater properly sized for engine offered, with properly mounted weatherproof receptacle, mounted under left door (Driver side). | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Shall have on board primer for the fuel system. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Shall have a fuel water separator. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. | Shall have full flow spin on type engine oil filter. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| f. | Oil pan must be corrosion resistant. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

15. Engine Brake:

- | | | | | | |
|----|---|-----|--------------------------|----|--------------------------|
| a. | Must have a compression type or approved equal and must be compatible with the engine and transmission furnished. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
|----|---|-----|--------------------------|----|--------------------------|

1- Engine brake manufacturer: _____

2- Engine brake Model: _____

16. Exhaust:

- | | | | | | |
|----|---|-----|--------------------------|----|--------------------------|
| a. | Exhaust must be vertical type with deflector. Rain cap is not acceptable. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
|----|---|-----|--------------------------|----|--------------------------|

17. Fuel Tank(s):

- | | | |
|----|---|---------------------|
| a. | A minimum 100-gallon fuel capacity is required. | Cap. _____ Gallons. |
|----|---|---------------------|

b. Fuel tank to be aluminum, aluminized-steel not acceptable. Yes ☐ No ☐

c. Shall conform to all applicable Federal, State and SAE standards. Yes ☐ No ☐

18. Air Cleaner:

a. Dry type, with rated air flow for engine offered with filtration efficiency of 99.5% for all engine speeds. Yes ☐ No ☐

b. In cab direct reading air restriction indicator. Yes ☐ No ☐

19. Cooling System:

a. Cooling system conforming to SAE J1393, ASTM standards and manufacturer recommendation for on/off road application. Yes ☐ No ☐

b. Shall have manufacturer's suggested coolant type. Yes ☐ No ☐

c. Stone/Gravel radiator guard must be installed at front of the cab. Yes ☐ No ☐

20. Gauges: Must include manufacturer's standard digital gauge package, including
The following gauges as a minimum.

a. Oil pressure Yes ☐ No ☐

b. Temperature Yes ☐ No ☐

c. Voltmeter Yes ☐ No ☐

d. Fuel Yes ☐ No ☐

e. Dial type air pressure Yes ☐ No ☐

f. Dial type tachometer Yes ☐ No ☐

g. Hour meter Yes ☐ No ☐

h. Audible and visual alarm for high water temperature Yes ☐ No ☐

i. Audible and visual alarm for low oil pressure. Yes ☐ No ☐

21. Manual Transmission: The bidder must provide a technical brochure on the transmission offered, giving gear ratios, performance characteristics and other technical data.

Transmission offered must be RTLO-18913A or approved equal,

a. Properly matching engine and axle ratio to provide the performance requirements. Yes ☐ No ☐

Transmission Manufacturer: _____

Transmission Model: _____

b. Minimum Torque capacity of 1800Lbs./ft. Torque: _____ lbs/ft.

c. Shall allow easy downshifting to lower gears without bringing vehicle to stop. Yes ☐ No ☐

d. Should be filled with synthetic oil/lube bath. Yes ☐ No ☐

22. Clutch:

- | | | | | | |
|----|---|-------|--------------------------|----|--------------------------|
| a. | Easy pedal plus or approved equal with minimum of 15.5 inches. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Must have a minimum 2 plate's cerametallic or equivalent. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | An extended lube line for the clutch release bearing is required. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Clutch manufacturer: | _____ | | | |
| e. | Clutch model: | _____ | | | |

23. Hydraulics: The truck tractor is required to have a transmission PTO driven pump, with in-cab engagement, providing sufficient hydraulic flow and power to operate the trailer, which will normally be a 50-ton rated, drop deck equipment hauling trailer with a 12,000-pound winch.

- | | | | | | |
|----|---|------------------------|--------------------------|----|--------------------------|
| a. | Complete hydraulic system including pump, filters, pressure relief valve, metal reservoir and oil cooler. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Bidder must provide a sufficient cooling system necessary to limit any heat rise. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Hydraulic hoses should be minimum 9 Ft. in length. | Length of Hoses: _____ | | | |
| d. | Controls for operation of the trailer will be furnished by the trailer manufacturer. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

24. Windshield Wipers:

- | | | | | | |
|----|------------------------|-----|--------------------------|----|--------------------------|
| a. | Electric, dual wipers. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Intermittent action. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Dual washers. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

25. Wheels & Tires:

- | | | | | | |
|----|---|-------|--------------------------|----|--------------------------|
| a. | Standard disc type wheels, 10 holes. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Hub piloted. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Rims must conform to Tire and Rim Association guidelines. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Rims must be manufacturer's standard rim. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. | Rim manufacturer. | _____ | | | |
| f. | <u>Front Tires:</u> | | | | |
| | 1-315/80R22.5 steel belted radial. | _____ | | | |
| | 2- Load range L (20 Ply) | _____ | | | |
| | 3- Tire Manufacturer: | _____ | | | |

4- Tire Model: _____

g. Rear Tires:

1- 12R22.5 steel belted radial _____

2- Load range H (16 Ply) _____

3- Tire Manufacturer: _____

4- Tire Model: _____

26. Lighting:

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| a. | Factory installed daytime running lights. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Front and rear Class "A" directional signals. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Minimum, five cab marker lights. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Hazard flasher switch. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. | All lighting to be of the type approved by the NC Division of Motor Vehicles. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| f. | All bulbs must be shock mounted. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| g. | Must have a Pre-Trip exterior light inspection switch: Engaging light inspection switch will sequentially flash all exterior vehicle lights, except back up lights while operator completes safety inspection. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

27. Front Bumper:

- | | | | | | |
|----|---|-----|--------------------------|----|--------------------------|
| a. | Manufacturer's standard heavy front bumper. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
|----|---|-----|--------------------------|----|--------------------------|

28. Electrical Wiring:

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| a. | All wiring from the front to rear of chassis shall be encased in a loom, molded plastic or pre-approved equal protective covering. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Wiring to be attached to inner side rails with rubber covered fasteners at approximately 20 inches intervals. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Power supply source (5 terminal block, Cole Hersee 46377 or equal), each capable of providing 15 amps, fuse protected for the later addition of 2 way radio, safety lighting and other special equipment required for NCDOT purposes. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

29. Fire Extinguisher:

- | | | | | | |
|----|---|-----|--------------------------|----|--------------------------|
| a. | Shall be ABC type, rechargeable and mounted in cab. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Unit shall have a UL rating of 10BC. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

30. Cab: Bidder may be required to demonstrate the cab during the evaluation process:

- | | | | | | |
|----|---|-----|--------------------------|----|--------------------------|
| a. | Conventional cab with factory installed air-conditioning. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Must have electronic cruise control. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

- | | | | | | |
|----|---|-----|--------------------------|----|--------------------------|
| c. | Must have air ride cab. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Shall have exterior and interior grab handle handholds on both sides. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. | Shall have steps for high cab applications for both driver and passenger side. First step height approximately 17 inches. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| f. | Shall have tinted safety glass throughout including windshield. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| g. | Driver and passenger seat shall be air ride and adjustable up, down, forward, back and tilt, armrests. (National Cush-n-Aire or pre-approved equal). | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| h. | Both seats must be high-back, each with lap and shoulder seatbelts. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| i. | Shall have 12V power supply outlet. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| j. | Shall have fresh air heater and defroster with single shut-off valve for water line to heater. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| k. | Shall have door locks, power windows, right and left padded sun visor, driver/passenger side arm rest, map pocket and floor mats. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| l. | Shall have AM/FM/CD/blue tooth radio, shielded to eliminate interference from 2-way radio. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| m. | Tilt and telescoping steering wheel. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| n. | Cab must be ergonomically designed to accommodate 95% percentile of drivers, from the 4 FT 8 inch, 110-lbs driver to the 6 FT 5 Inch 375 lbs. driver. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| o. | Rear mounted light on back of cab. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

31. Mirrors:

- | | | | | | |
|----|--|---------------------|--------------------------|----|--------------------------|
| a. | Left and right "West Coast" type, with approximately 7 inches X 17 inches replaceable heads. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Mirrors must be motorized and adjustable and controlled by the driver. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Both mirrors must be heated. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Each mirror must have approximately 8 inches diameter convex mirrors bottom bracket mounted with ball adjustable. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. | Overall width, outside mirror to outside mirror not to exceed 110 inches. (width of the cab and mirror extension should not exceed 110 for safety Concerns). | Overall width _____ | | | |

32. Horns:

- | | | | | | |
|----|---|-----|--------------------------|----|--------------------------|
| a. | Must have Two (2) horns, one electric and one air horn. Both must comply with SAE requirements and industry standard. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
|----|---|-----|--------------------------|----|--------------------------|

33. Steering:

- | | | | | | |
|----|---|-----|--------------------------|----|--------------------------|
| a. | Power steering designed and intended for tires, axles offered and | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
|----|---|-----|--------------------------|----|--------------------------|

34. Fifth Wheel: Bidder is to confirm that the data below will provide for the axle loading specified above and that the selected trailer will properly attach without any modification by the user.

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| a. | Air slide with left side operation. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Mounted such that the kingpin can be located from directly over the center of the tandem to 24 inches forward. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Fontaine model H7000 AWB 24 Heavy Duty - 4" increments. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Height of 51 inches +/- one inch. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

35. Trailer Connection:

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| a. | Break away valve. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Air check valve. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Hand control valve. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Hose, spring cab hangers. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. | Berg 7 wire connector or equivalent, with holder and cable for both ABS and non-ABS. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| f. | FMVSS compatible. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| g. | Wet line kit for hook up of semi-trailer, mounted behind cab. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| h. | Reservoir capacity and oil cooling to ensure maximum of 100-degree F rise. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| i. | Pogo Stick or slide bar. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| j. | Quick disconnect fittings shall comply with ISO 7241-1 Series B. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

36. Safety:

- | | | | | | |
|----|---|-----|--------------------------|----|--------------------------|
| a. | Vehicles shall include the necessary safety features to meet the applicable requirements of the Federal Motor Vehicles Safety Standards and shall conform with Motor Carrier Safety Regulations # 399.203. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | The vehicle to be furnished with all applicable equipment and accessories as required by the Occupational Safety and Health Act of both the United States and the State of North Carolina, and shall comply with all regulations, rules, standards and interpretations lawfully adopted thereunder. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Vehicle cab noise at ear level of the seated operator, with windows open shall not exceed OSHA requirements in 29 CFR 1910.95 for 8-hours operating exposure when measured on the "A" scale of a standard sound meter. Ear plugs or other personal protective devices are not acceptable to comply with this requirement. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | OSHA requirements on the opening date of the IFB shall apply, regardless of the date of equipment manufacture. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

37. Federal Inspection Sticker:

- a. All units to be delivered with a completed 12 month Federal Highway Safety Inspection sticker properly affixed. Yes ☐ No ☐

Item 3: TRUCK TRACTOR, (Over the Road) 90,000 POUND GCWR

GENERAL: NCDOT will typically use these units in transporting various bulk items such as parts and supplies to the various Divisions throughout the state. These Units will typically be used on intrastate roadways only. The tractor will normally be mated to a 53 foot, 2-axle, enclosed box trailer, average hauling weight will be 38,000 Lbs.

REQUESTED

OFFERED

1. Type: Heavy-duty truck tractor intended for on road service only.

- a. Manufacturer: _____
- b. Chassis Model: _____
- c. Year Model: _____

2. GCWR: Minimum 90,000 lbs. **GVWR:** 60,000.

- a. GCWR _____ lbs.
- b. GVWR _____ lbs.
- c. Chassis weight on front axle. _____ lbs.
- d. Chassis weight on rear tandem. _____ lbs.
- e. Weight of cab & chassis including lubricant and full load of fuel. _____ lbs.

3. CT:

- a. CT (measuring from the back of the cab to the center of tandem rear Axle) and it should be appropriate for the Fifth wheel setting and axle spacing. _____ inches

4. Wheelbase:

- a. Wheelbase shall be appropriate for the axle and CT dimensions required to achieve the axle load requirements and satisfy the laws of North Carolina, Bridge formula, and the Federal laws. _____ inches

5. Frame:

- a. Minimum resisting bending moment of 2,000,000 inch/lbs. per frame rail. RBM _____ in/lbs. _____

6. Springs and Suspension:

- a. Front and rear suspension shall meet or exceed the requirements for GVWR. Yes ☐ No ☐
- b. Rear suspension to be Air ride type suspension. Yes ☐ No ☐
- c. Front suspension offered. _____

d. Rear suspension offered.

e. Front spring capacity. _____ lbs.

f. Rear spring capacity. _____ lbs.

7. Front Axle:

a. Front axle to be minimum 14,000 lbs. rated capacity. Capacity _____ lbs.

b. Set back axle with shock absorbers designed for on road use. Yes ☐ No ☐

c. Wheel bearings oil bath type with synthetic lubricant. Yes ☐ No ☐

8. Rear axles:

a. Rear axle with a minimum 46,000 lbs. rated capacity. _____ lbs.

b. Rear axle Make and Model. _____

c. Single speed tandem. Yes ☐ No ☐

d. Power divider lock with an indicator light visible to the operator or approved equivalent. Yes ☐ No ☐

e. Power divider offered. Type _____
Model _____
Manufacturer _____

f. Spacing of the axles of the tandem shall provide enough clearance to allow for snow chains to be run on both axles with the tires specified in this bid. Yes ☐ No ☐

g. Axle ratio provided is to be properly matched for engine RPM, tire size and transmission offered to maintain 72 MPH \pm 2 MPH at a maximum GVW on level ground. Yes ☐ No ☐

h. Axle ratio. _____

i. Differentials filled with synthetic lubricant. Yes ☐ No ☐

9. Brakes:

a. Full air "S" Cam. Yes ☐ No ☐

b. Low air warning buzzer and light. Yes ☐ No ☐

c. Non asbestos shoes. Yes ☐ No ☐

d. Desiccant type air dryer, Midland Pure Air Plus or pre-approved equal. Yes ☐ No ☐

e. Automatic slack adjusters. Yes ☐ No ☐

f. Minimum 19.0 CFM air compressor _____ CFM

g. Parking brake on front and rear axle of tandem. Yes ☐ No ☐

- h. Dust shields on all axles. Yes ☐ No ☐
- i. Brakes shall conform to FMVSS in effect at time of production. Yes ☐ No ☐
- j. Minimum 16 ½ inches x 5 inches front. _____ X _____
- k. Minimum 16 ½ inches x 7 inches rear. _____ X _____
- l. Full trailer air package required with glad hands installed such that they can attached to the trailer without further modification by the user; holders are required. Yes ☐ No ☐
- m. The brake air tank shall have a manual drain valve with a lanyard attached to the outside of chassis rail. Yes ☐ No ☐
- n. ABS system to meet FMVSS and to be manufacturer's standard Bendix or Meritor, and must be compatible with all manufacturers' of trailer brakes. Yes ☐ No ☐
- o. ABS manufacturer. _____
- p. ABS model. _____
- q. Air brake ABS, full vehicle wheel control system with automatic traction control (ATC). Yes ☐ No ☐

10. Batteries:

- a. Battery box and battery mounts designed for on road applications. Yes ☐ No ☐
- b. Minimum of 3000 CCA at zero (0) degrees F. Yes ☐ No ☐
- c. Hold down clamps and terminals treated with corrosion resistant substance. Yes ☐ No ☐
- d. Batteries and cables to comply with TMC105. Yes ☐ No ☐
- e. 2 remote jump start terminals, battery side mounted with color coded covers. Yes ☐ No ☐
- f. Shall have a master lever type electrical disconnect switch (non-keyed) on battery side of truck, protected from road splash and accessible from the ground. Yes ☐ No ☐
- g. Manufacturer's standard battery box cover. Yes ☐ No ☐

11. Alternator:

- a. Delco SI or approved equal. Yes ☐ No ☐
- b. Minimum 180 amps. _____ AMP
- c. Alternator manufacturer. _____
- d. Alternator model. _____

12. Engine Performance: The Bidder is required to furnish, with the bid, a copy of the performance Calculations for the truck offered when coupled to a 53 ft. Box Trailer, as per the following requirements.

- a. Full diesel, electronic engines, minimum six (6) cylinders. Yes ☐ No ☐

- | | | | | | |
|----|--|-----------------------|--------------------------|----|--------------------------|
| b. | Shall be SAE J1349 rated. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Minimum rated torque 1650 lbs./ft. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Shall have 25% startability at maximum GVWR (startability @ clutch engagement). | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. | Shall maintain a minimum top speed of 72 MPH @ 1 ½ gradeability at maximum GVWR. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| f. | Vendor shall include truck performance analysis sheet(s) indicating the truck performance criteria as described above. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| g. | Engine manufacturer. _____ | | | | |
| h. | Engine model. _____ | | | | |
| i. | Number of cylinders. _____ | | | | |
| j. | Net HP, minimum of 445 hp. | _____ @ _____ | RPM | | |
| k. | Peak torque | _____ lbs/ft. @ _____ | RPM | | |

12A. Engine Requirements Continued:

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| a. | Engine offered shall meet all emissions control system set by EPA requirements, Federal and NC State regulations at the time of delivery. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | 110 V thermostatically controlled engine block heater properly sized for the engine proposed with weatherproof receptacle mounted under left door (Driver side). | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Shall have cold weather starting aid, compatible with the engine furnished. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Shall have on board primer for the fuel system. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. | Shall be compatible for use with B-20 Bio-Diesel fuel. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| f. | Shall have a fuel water separator. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| g. | Shall have full flow, spin on type engine oil filter. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

13. Engine Brake:

- | | | | | | |
|----|---|-----|--------------------------|----|--------------------------|
| a. | Shall be a compression type or approved equal, compatible with the engine and transmission furnished. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Engine brake manufacturer. _____ | | | | |
| c. | Engine brake model. _____ | | | | |

14. Exhaust:

- a. Shall be a vertical stack with deflector. (Rain cap not acceptable). Yes ☐ No ☐

15. Fuel Tank:

- a. Dual fuel tanks, one on each side that will equal, minimum of 150 _____ Gallons
gallons.
- b. Fuel tank to be aluminum, aluminized-steel not acceptable. Yes ☐ No ☐
- c. Shall conform to all applicable SAE Standards. Yes ☐ No ☐

16. Air Cleaner:

- a. Dry type, with rated air flow for engine offered with filtration efficiency of 99.5% for all engine speeds. Yes ☐ No ☐
- b. In cab direct reading air restriction indicator. Yes ☐ No ☐

17. Cooling System:

- a. Cooling system conforming to SAE J1393, ASTM Standards and manufacturer recommendations for on-off road application. Yes ☐ No ☐
- b. Shall have manufacturer's suggested coolant type. Yes ☐ No ☐
- c. Stone/Gravel radiator guard should be installed at front of the cab Yes ☐ No ☐

18. Gauges: Shall include manufacturer's standard digital gauge package, including the following gauges as a minimum:

- a. Oil pressure. Yes ☐ No ☐
- b. Temperature. Yes ☐ No ☐
- c. Voltmeter. Yes ☐ No ☐
- d. Dial type fuel. Yes ☐ No ☐
- e. Dial type air pressure. Yes ☐ No ☐
- f. Dial type tachometer. Yes ☐ No ☐
- g. Hour meter. Yes ☐ No ☐
- h. Audible and visual alarm for high water temperature. Yes ☐ No ☐
- i. Audible and visual alarm for low oil pressure. Yes ☐ No ☐

19. Manual Transmission:

- a. Minimum torque capacity of 1650 lbs. / ft. Yes ☐ No ☐
- b. Eaton RTLO-16913A or approved equal, properly matching engine and axle ratio. Yes ☐ No ☐
- c. Shall allow easy downshifting to lower gears without bringing vehicle to stop. Yes ☐ No ☐
- d. Furnished with synthetic transmission lubricant. Yes ☐ No ☐
- e. Transmission manufacturer. _____
- f. Transmission model. _____
- g. Torque capacity. _____ lbs/ft.

20. Clutch:

- a. *Easy pedal plus* or approved equal with minimum of 15.5 inches. _____ inches
- b. Minimum 2 plates cerametallic or equivalent _____ Plates
- c. An extended lube line for the clutch release bearing is required. Yes ☐ No ☐
- d. Clutch manufacturer. _____.
- e. Clutch model. _____.

21. Windshield Wipers:

- a. Electric, dual wipers. Yes ☐ No ☐
- b. Intermittent action. Yes ☐ No ☐
- c. Dual washers. Yes ☐ No ☐

22. Wheel Rims:

- a. Standard disc type wheels, 10 hole. Yes ☐ No ☐
- b. Hub piloted. Yes ☐ No ☐
- c. Rims shall conform to Tire & Rim Association guidelines. Yes ☐ No ☐
- d. Rim manufacturer. _____.

23. Front Tires:

- a. 11R22.5 steel belted radial. Yes ☐ No ☐
- b. Load Range H (16 Ply). Yes ☐ No ☐
- c. Premium highway treads. Yes ☐ No ☐
- d. Michelin XDN2, or Good Year G149, or approved equal. Yes ☐ No ☐
- e. Tire manufacturer _____

If different from above:

- a. Tire size. _____
- b. Tire load range. _____
- c. Tire model. _____

24. Rear Tires:

- a. 11R22.5 steel belted radial. Yes ☐ No ☐
- b. Load range H (16 PLY). Yes ☐ No ☐
- c. Michelin XZY3, Good Year G164, or approved equal. Yes ☐ No ☐

d. Tire manufacturer. _____

If different from above:

a. Tire size. _____

b. Tire load range. _____

c. Tire model. _____

25. Lighting:

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| a. | Factory installed daytime running lights. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Front and rear Class "A" directional signals. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Minimum, five cab marker lights. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Hazard flashers. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. | All lighting to be of the type approved by the N.C. Division of Motor Vehicles. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| f. | All bulbs shall be shock mounted. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| g. | Must have a Pre-Trip exterior light inspection switch: Engaging light inspection switch will sequentially flash all exterior vehicle lights, except back up lights while operator completes safety inspection. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| h. | Factory installed Fog lights installed in the front bumper. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

26. Front Bumper:

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| a. | Manufacturer's standard heavy front bumper | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
|----|--|-----|--------------------------|----|--------------------------|

27. License Plate bracket:

- | | | | | | |
|----|---|-----|--------------------------|----|--------------------------|
| a. | License bracket mounted at the rear with light. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
|----|---|-----|--------------------------|----|--------------------------|

28. Electrical Wiring:

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| a. | All wiring from the front to rear of chassis shall be encased in a loom, molded plastic or pre-approved equal protective covering. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Wiring to be attached to inner side rails with rubber covered fasteners at approximately 20" intervals. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

29. Cab: Vendor may be required to demonstrate the cab during the evaluation process:

- | | | | | | |
|----|---|-----|--------------------------|----|--------------------------|
| a. | Conventional cab with factory installed air-conditioning. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Shall have electronic cruise control. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Shall have air ride cab. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Shall have exterior and interior grab handle handholds on both sides. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. | Shall have steps for high cab applications for both driver and passenger side. First step height approximately 17 inches. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| f. | Shall have tinted safety glass throughout including windshield. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| g. | Driver and passenger seats shall be air ride and adjustable up, down, forward, back and tilt, arm rests. (National Cush-n-Aire or pre-approved equal). | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| h. | Both seats shall be high-back, each with lap and shoulder seatbelts. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| i. | Shall have 12V power supply outlet. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| j. | Shall have fresh air heater and defroster with single shut-off valve for water line to heater. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| k. | Shall have power door locks, and power windows, right and left padded sun visor, driver/passenger side arm rest, map pocket and floor mats. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| l. | Shall have AM/FM/CD/blue tooth radio, shielded to eliminate interference from 2-way radio. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| m. | Tilt and telescoping steering wheel. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| n. | Cab access and function must be ergonomically designed to accommodate 95% percentile of drivers ranging from a 4 Ft. 8 In., 110 Lb. driver to a 6 Ft. 5 In., 375 Lb. driver. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| o. | Rear mounted light on back of cab. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

30. Fire Extinguisher:

- | | | | | | |
|----|---|-----|--------------------------|----|--------------------------|
| a. | Shall be ABC type, rechargeable and mounted in the cab. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Unit shall have a UL rating of 10BC. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

31. Mirrors:

- | | | | | | |
|----|---|-----|--------------------------|----|--------------------------|
| a. | Left and right west coast type, with approximately 7"x17" replaceable heads. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Both west coast mirrors heated. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Right and left side mirrors to be motorized, adjustable and controlled by the driver. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Each mirror to have approximately 8 inches diameter convex mirrors, bottom bracket mounted, ball adjustable. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| e. | Overall width, outside mirror to outside mirror not to exceed 110 inches Overall width _____ (width of the cab and mirror extension should not exceed 110 for safety concerns. | | | | |

32. Horn(s):

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| a. | Dual horns, one electric and one air horn per SAE and industry standard. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
|----|--|-----|--------------------------|----|--------------------------|

33. Power Steering:

- | | | | | | |
|----|--|-----|--------------------------|----|--------------------------|
| a. | Power steering, designed and intended for the tires, axles and GVWR offered. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
|----|--|-----|--------------------------|----|--------------------------|

34. Fifth Wheel: Vendor is to confirm that the below data will provide for the axle loading specified above and that the selected trailer will properly attach without modification by the User.

- | | | | | | |
|----|--|-------|--------------------------|----|--------------------------|
| a. | Air slide with left side operation | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Mounted such that the kingpin can be located from directly over the Center of the tandem to 24 inches forward. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Fontaine model H7000 AWB 24 Heavy Duty - 4" increments. | Model | _____ | | |

d. Height shall be between 51 inches to 52 inches.

Yes ☐ No ☐**35. Trailer Connection:**

a. Break away valve.

Yes ☐ No ☐

b. Air check valve

Yes ☐ No ☐

c. Hand control valve

Yes ☐ No ☐

d. Hose, spring cab hangers

Yes ☐ No ☐

e. Berg (7) wire connector or equivalent, with holder and cable for both ABS and non-ABS.

Yes ☐ No ☐

f. FMVSS compatible.

Yes ☐ No ☐

j. Pogo Stick and or slide bar.

Yes ☐ No ☐**36. Safety:**

a. Vehicles shall include the necessary safety features to meet the applicable requirements of the Federal Motor Vehicles Safety Standards and shall conform with Motor Carrier Safety Regulations #399.203.

Yes ☐ No ☐

b. The vehicle to be furnished with all applicable equipment and accessories as required by the Occupational Safety and Health Act of both the United States and the State of North Carolina, and shall comply with all regulations, rules, standards and interpretations lawfully adopted there under.

Yes ☐ No ☐

c. Vehicle cab noise at ear level of the seated operator, with windows open shall not exceed OSHA requirements in 29 CFR 1910.95 for 8-hour operating exposure when measured on the "A" scale of a standard sound meter. Ear plugs or other personal protective devices are not acceptable to comply with this requirement.

Yes ☐ No ☐

d. OSHA requirements on the opening date of the IFB shall apply, regardless of the date of equipment manufactured.

Yes ☐ No ☐**37. Federal Inspection Sticker:**

a. All units to be delivered with a completed 12-month Federal Highway Safety Inspection sticker properly affixed.

Yes ☐ No ☐**5.3 DEVIATIONS**

The nature of all deviations from the Specifications listed herein shall be clearly described by the Vendor. Otherwise, it will be considered that items offered by the Vendor are in strict compliance with the Specifications provided herein, and the successful Vendor shall be required to supply conforming goods. Deviations shall be explained in detail below or on an attached sheet, titled DEVIATIONS. However, no implication is made or intended by the State that any deviation will be acceptable. Do not list objections to the North Carolina General Terms and Conditions in this section.

6.0 CONTRACT ADMINISTRATION

All Contract Administration requirements are conditioned on an award resulting from this solicitation. This information is provided for the Vendor's planning purposes.

State Contract Administrator: Brian Phillips, brian.phillips@doa.nc.gov, 984-236-0296

State Contract Manager: Jonathan Davis, jonathan.davis@doa.nc.gov, 984-236-0225

Note: In the event the State's Contract Administrator or Contract Manager changes, notification will be sent to the Vendor's Contract Manager and the Contract Synopsis on the DOA P&C website will be updated.

6.1 CONTRACT MANAGER AND CUSTOMER SERVICE

The Vendor shall be required to designate and make available to the State a Contract Manager. The Contract Manager shall be the State's point of contact for contract related issues and issues concerning performance, progress review, scheduling, and service.

| Contract Manager Point of Contact | |
|-----------------------------------|--|
| Name: | |
| Office Phone #: | |
| Mobile Phone #: | |
| E-mail: | |

The Vendor shall be required to designate and make available to the State for customer service. The customer service point of contact shall be the State's point of contact for customer service-related issues.

| Customer Service Point of Contact | |
|-----------------------------------|--|
| Name: | |
| Office Phone #: | |
| Mobile Phone #: | |
| E-mail: | |

6.2 ELECTRONIC PRODUCT CATALOG

Vendors have one (1) option to select from for managing products using the State's NC E-Procurement Services to develop and manage a catalog solution. Options include:

1. Ordering Instructions –
 - a. No limit to products available.

6.2.1 Ordering Instructions Solution

The State will allow for 'Ordering Instructions' for custom built or customized equipment purchases only. Vendor will be required to provide the sales representative's contact information at the time of award. If selected for contract award, the State will work with awarded Vendors and the E-Procurement team to create catalogs that meet the requirements for ordering instructions depending on the complexity of the awarded contract and the number of items available.

6.3 POST AWARD BUSINESS REVIEW MEETINGS

The Vendor, at the request of the State, shall be required to meet periodically annually with the State for Business Review meetings. The purpose of these meetings will be to review purchase data, discuss Vendor and State performance, address outstanding issues, review problem resolution, provide direction, evaluate continuous improvement and cost saving ideas, and discuss any other pertinent topics.

Business review meetings shall be presented by the Vendor and be inclusive of the following:

1. Spend overview (State Agency Spend) FY Comparison
 - a. Volume Discount
2. Product Cost Savings from list price
3. Product Accuracy Rate – Percent of equipment invoiced and shipped without post order correction
4. Complete Shipment Rate – Percent of orders filled in one (1) shipment
5. On Time Delivery Rate – Percent of orders delivered within contract delivery term

6. Sustainability Efforts and Results
7. Additional Discounts Exercised
8. Rebates
9. Challenges
10. Improvement Ideas

6.4 CONTINUOUS IMPROVEMENT

The State encourages the Vendor to identify opportunities to reduce the total cost to the State. A continuous improvement effort consisting of various ideas to enhance business efficiencies as performance progresses.

6.5 PERIODIC QUARTERLY SPEND REPORTS

The Vendor shall be required to provide Sales Management Reports to the above designated Contract Manager on a quarterly basis. This report shall include, at a minimum, information concerning:

1. Sales Report (total cost) by State entity, to include agencies, community colleges, universities, school systems, local government entities.
2. Sales Report Category, Items Purchased (Manufacturer), Item Description, Quantity, Unit of Measure, List Price, Contract Price, any additional delivery charges such as specialty packaging or overnight delivery, Ordering Entity, Delivery Location (City), Order Date, Shipment Date, Delivery Date for consumables, and delivery date for non-routine consumables and equipment.

Quarterly **Sales Management Reports shall be sent to PCReports@doa.nc.gov with the Contract Manager copied at the above indicated e-mail address.** Vendor shall include all issues identified by Vendor related to Vendor performance or to the State's usage of the contract.

These reports shall be well organized and easy to read. The Vendor shall submit these reports electronically, to include using the [Vendor Quarterly Spend Data Report](#). The Vendor shall submit the reports in a timely manner and on a regular schedule as agreed by the parties.

Vendor shall submit the Quarterly Sales Management Reports by the 15th of the month following the end of the quarter. The Quarterly Management Report delivery schedule is included below:

By October 15th: Q1 Quarterly Management Report for July – September

By January 15th: Q2 Quarterly Management Report for October – December

By April 15th: Q3 Quarterly Management Report for January – March

By July 15th: Q4 Quarterly Management Report for April – June.

This schedule aligns with the State's fiscal year. If the contract start date does not align with the start of a quarter, the initial Quarterly Management Report shall be for the period from the contract start date to the end of the existing calendar quarter. Timely submission of all reports shall be a material term of this contract and failure to do so shall constitute a default.

Additional related sales information and/or details on user purchases may be required by the State and must be supplied within thirty (30) days of any such request. A template for any such reports may be provided by the State, at its discretion.

Vendor is required to provide a sample of their reporting capabilities at the post-award Contract Kick-off Meeting.

6.6 INVOICES

Vendor shall invoice the Purchasing Agency. The standard format for invoicing shall be Single Invoices meaning that the Vendor shall provide the Purchasing Agency with an invoice for each order. Invoices shall include detailed line-item information to allow

Bid Number: DPC-123307769-BP

Vendor: _____

Purchasing Agency to verify pricing at point of receipt matches the correct price from the original date of order. At a minimum, the following fields shall be included on all invoices:

Vendor's Billing Address, Customer Account Number, NC Contract Number, Order Date, Buyer's Order Number, Manufacturer Part Numbers, Vendor Part Numbers, Item Descriptions, Price, Quantity, and Unit of Measure.

INVOICES MAY NOT BE PAID UNTIL AN INSPECTION HAS OCCURRED AND THE GOODS ACCEPTED.

6.7 DISPUTE RESOLUTION

During the performance of the contract, the Parties agree that it is in their mutual interest to resolve disputes informally. Any claims by the Vendor shall be submitted in writing to the State's Contract Manager for resolution. Any claims by the State shall be submitted in writing to the Vendor's Project Manager for resolution. The Parties shall agree to negotiate in good faith and use all reasonable efforts to resolve such dispute(s).

During the time the Parties are attempting to resolve any dispute, each shall proceed diligently to perform their respective duties and responsibilities under this contract. The Parties will agree on a reasonable amount of time to resolve a dispute. If a dispute cannot be resolved between the Parties within the agreed upon period, either Party may elect to exercise any other remedies available under the contract, or at law. This provision, when agreed in the contract, shall not constitute an agreement by either party to mediate or arbitrate any dispute.

6.8 PRODUCT RECALL

Vendor expressly assumes full responsibility for prompt notification to the Buyer listed on the face of this IFB of any product recall in accordance with the applicable State or Federal regulations. The Vendor shall support the State, as necessary, to promptly replace any such products, at no cost to the State.

6.9 POST AWARD PRODUCT SUBSTITUTION, ADDITIONS, & REMOVALS

Post-Award product substitutions are not permitted without prior written approval from the Contract Administrator. Proposed substitutions shall be of the same or higher quality and at the same or lower price as the original item. Failure of the Vendor to comply with this requirement shall constitute sufficient cause to hold the Vendor in default or for removal from the contract.

The items included in this IFB are expected to cover the State's needs for the term of the contract. In the case that the State's needs change over the term of the contract, the State reserves the right to add additional products to the contract that can be supplied by the awarded Vendor. The price for these added products will be mutually agreed to by the State and the Vendor but are assumed to be priced at a discount similar to what is being offered on the products listed in the IFB.

6.10 PRICE ADJUSTMENTS

Prices proposed by the Vendor shall be firm against any increase through the model year in production at the time of bid submittal.

Price increase requests at the change of the model year shall be submitted in writing to the Contract Manager, which shall include the reason(s) for the request and contain supporting documentation for the need. Price increases will be negotiated and agreed to by both the State and Vendor in advance of any price increase going into effect. The State is not obligated to accept pricing adjustments or increases and reserves the right to accept or reject them in part or in whole. Price de-escalation or decreases may be requested by the State at any time.

It is understood and agreed that orders will be shipped at the established contract prices in effect on the date an order is placed. Invoicing that deviates from this provision may result in contract cancellation.

6.11 CONTRACT CHANGES

Contract changes, if any, over the life of the contract shall be implemented by contract amendments agreed to in writing by the State and Vendor.

6.12 TAXES

Bid Number: DPC-123307769-BP
No taxes shall be included in any bid prices.

Vendor: _____

6.13 ATTACHMENTS

All attachments to this IFB are the copies found within the Ariba Sourcing Tool, and are incorporated herein, and shall be submitted by responding in the Sourcing Tool.

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