



STATE OF NORTH CAROLINA

Department of Transportation

Invitation for Bid #: 54-LC-12154341

Traction Motor Conversion

Date of Issue: May 2, 2025

Bid Opening Date: May 30, 2025

At 2:00 PM ET

Direct all inquiries concerning this IFB to:

Lyndsey K. Campbell

Procurement Specialist III

Email : lkcampbell@ncdot.gov

Phone : 919-707-2641



STATE OF NORTH CAROLINA

Invitation for Bid

54-LC-12154341

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 (Electronic Vendor Portal). If you do not have a vendor number, register at <https://vendor.ncgov.com/vendor/login>

Electronic responses ONLY will be accepted for this solicitation.

STATE OF NORTH CAROLINA
Department of Transportation

Refer <u>ALL</u> Inquiries regarding this IFB to: Lyndsey K. Campbell Procurement Specialist III 919-707-2641 lkcampbell@ncdot.gov	Invitation for Bids # 54-LC-12154341
	Bids will be publicly opened: May 30, 2025, at 2:00PM ET
	Contract Type: Agency Specific Term Contract
Using Agency: NC Department of Transportation	Commodity No. and Description: 781815 Vehicle Maintenance and Repair Services
Requisition No.: PR15668	

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),
- 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 contracts; 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 response to the IFB, the undersigned certifies, for Vendor's entire organization and its employees or agents, that Vendor is not aware that any such gift has been offered, accepted, or promised by any employees of your 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 herein**. These documents can be accessed from the ATTACHMENTS page within this document.

Failure to execute/sign bid prior to submittal shall render bid invalid and it WILL BE REJECTED. Late bids shall not 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:	EMAIL:

VALIDITY PERIOD

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

ACCEPTANCE OF BIDS

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 this ____ day of _____, 2025, as

indicated by attached certification by _____

(Authorized Representative of Department of Transportation)

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1.0 PURPOSE AND BACKGROUND

The purpose of this Invitation for Bid (IFB) is to obtain pricing from qualified Vendors to furnish the overhaul and conversion of thirty-eight (38) D87B traction motor assemblies to D87BTR traction motor assemblies with a 21-tooth pinion gear. The goal is to standardize the fleet's traction motors to match the D87BTR motors currently in use on North Carolina Department of Transportation (NCDOT) F59PHI locomotives, ensuring identical form, fit, and function of all subcomponents to facilitate maintenance, reduce downtime, and improve fleet availability.

NCDOT acquired ten (10) D87B traction motor assemblies from the former Coast Rail locomotives. These assemblies were originally geared to operate on the former Metrolink commuter locomotives with a 66:21 ratio to allow a top speed of 83 mph. NCDOT is transitioning all current operating fleet locomotives to operate at a maximum of 110 mph with a gear ratio of 56:21 by converting all former D87B traction motor assemblies to D87BTR assemblies. The D87BTR (U-Tube) motor design is preferred due to its improved maintenance characteristics, durability, and ease of rebuilding compared to the D87B motors. This project aims to create uniformity in motor components across the fleet to enhance operational efficiency, reduce downtime, and streamline maintenance.

The ten (10) D87B traction motors recently acquired have not been inspected by NCDOT for defects. Prior to shipment to the Vendor, each motor will undergo a general inspection by NCDOT to document its condition and ensure that any discrepancies are noted and communicated to the Vendor. This documentation will be included as part of the initial shipment.

The sixteen (16) D87B traction motors operating in service will be removed from locomotives and sent for conversion as part of this contract. NCDOT will document and provide an initial inspection report for all in-service D87B motors before shipment. This report will outline the current condition and operational status of the motors to ensure clarity before work begins. The report will be shared with the Vendor prior to the inbound inspection at their facility.

The twelve (12) spare D87B motors supporting the four (4) D87B currently equipped locomotives will be converted as part of this contract.

All motors are located at Capital Rail Yard Facility in Raleigh, NC. The wheelsets and gear cases have been removed from all traction motors.

The intent of this solicitation is to award an Agency Specific Term Contract.

1.1 CONTRACT TERM

The Contract shall have an initial term of three (3) years, beginning on the date of final Contract execution (the "Effective Date"). In addition, and with the Vendor's concurrence, the State reserves the right to extend the contract after the last active term.

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

2.0 GENERAL INFORMATION

2.1 INVITATION FOR BID DOCUMENT

This 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: The E-Procurement fee may apply to this solicitation. See the 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/>.

2.3 NOTICE TO VENDORS REGARDING IFB TERMS AND CONDITIONS

If 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 are also 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 of 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 of specific provisions of the Contract that have been addressed during the question-and-answer period, prior to contract award.

Other than through the process of negotiation 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 or otherwise. 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 upon 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 non-responsive.

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	May 2, 2025
Hold Pre-Bid Meeting	State	May 9, 2025, at 10:00AM ET
Submit Written Questions	Vendor	May 16, 2025, by 2:00PM ET
Provide Response to Questions	State	May 23, 2025
Submit Bids	Vendor	May 30, 2025, by 2:00PM ET

Public bid opening for this solicitation will be conducted via conference call. Vendors may use the links below or use the call-in number to join the bid opening May 30, 2025, at 2:00 PM ET.

Microsoft Teams [Need help?](#)

Join the meeting now

Meeting ID: 295 076 299 778 6

Passcode: 8bu7x44B

Dial in by phone

[+1 984-204-1487,48108510#](#) United States, Raleigh

[Find a local number](#)

Phone conference ID: 481 085 10#

Join on a video conferencing device

Tenant key: ncgov@m.webex.com

Video ID: 113 797 248 0

[More info](#)

For organizers: [Meeting options](#) | [Reset dial-in PIN](#)

2.5 PRE-BID CONFERENCE

Urged and Cautioned-Pre-Bid Conference

Date: May 9, 2025
Time: 10:00 AM Eastern Time
Location: 860 Capital Blvd
Training Room
Raleigh, NC 27603
Contact #: 919-707-2641 Lyndsey K. Campbell, Procurement Specialist III

Instructions: Vendor representatives are URGED and CAUTIONED to visit the site 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 this 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 to be a part of this IFB and any resulting contract.

Vendors shall have the option to conduct a thorough field inspection of the D87BTR traction motor assembly prior to bidding.

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.

Written questions shall be emailed to lkcampbell@ncdot.gov by the date and time specified above. Vendors should enter "IFB # 54-LC-12154341: Questions" as the subject for the email. Question submittals should include a reference to the applicable IFB section and be submitted in the format shown below:

Reference	Vendor Question
IFB Section, Page Number	Vendor question ...?

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 form of an addendum to the *electronic Vendor Portal (eVP)*, <https://evp.nc.gov>, 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 the IFB and 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. The time and date of receipt will be marked on each bid when received. Any bid or portion thereof received after the bid deadline will be rejected.

All proposal responses shall be submitted electronically via the electronic Vendor Portal (eVP). Additional information can be found at the eVP updates for Vendors link: <https://eprocurement.nc.gov/news-events/evp-updates-vendors>.

Failure to submit a bid in strict accordance with these instructions shall constitute sufficient cause to reject a Vendor's bids(s). Vendors are strongly encouraged to allow sufficient time to upload bids.

Critical updated information may be included in Addenda to this IFB. It is important that all Vendors responding to this IFB periodically check the State's eVP website for any Addenda that may be issued prior to the bid opening date. All Vendors shall be deemed to have read and understood all information in this IFB and all Addenda thereto.

2.8 BID CONTENTS

Vendors shall populate all attachments of this IFB that require the Vendor to provide information and include an authorized signature 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.

Vendor IFB responses shall include the following items and attachments, which shall be arranged in the following order:

- a) Completed and signed versions of all EXECUTION PAGES, along with the body of the IFB.
- b) Signed receipt pages of any addenda released in conjunction with this IFB, if required to be returned.
- c) Vendor Response: Section 4.8 CERTIFICATION
- d) Completed version of ATTACHMENT A: PRICING
- e) Completed version of ATTACHMENT D: HUB SUPPLEMENTAL VENDOR INFORMATION
- f) Completed version of ATTACHMENT E: CUSTOMER REFERENCE FORM
- g) Completed version of ATTACHMENT F: LOCATION OF WORKERS UTILIZED BY VENDOR
- h) Completed and signed version of ATTACHMENT G: CERTIFICATION OF FINANCIAL CONDITION
- i) Completed version of ATTACHMENT H: EMD TRACTION MOTOR OVERHAUL DOCUMENTATION

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 bid must specifically identify the IFB requirements and advantages addressed by the alternate bid. Any alternate bid, in addition to the marking described above, must be clearly marked with the legend: "Alternate Bid #54-LC-12154341 [for 'name of Vendor']". Each bid must be for a specific set of Goods and Services and must include specific pricing. If a Vendor chooses to respond with various offerings, each must be offered with a separate price and be contained in a separate bid. Each bid must be complete and independent of other bids offered.

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 below which are incorporated herein by this reference.

RE-QUALIFIED – Reconditioning to the Original Equipment Manufacturer (OEM) specification

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.

All responsive bids will be reviewed, and an award or awards will be based on the responsive bid(s) offering the lowest price that meets the specifications provided herein, to include any required verifications set out here in such as but not limited to past performance, references, and financial documents.

While the intent of this IFB is to award a Contract(s) to a single Vendor, 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 Paragraph 29 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 bid 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 of 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. The price 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 State's eVP website 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 to a requirement would allow for the State to receive a better bid, the Vendor is urged 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 complete performance in accordance with the requirements and specifications herein, including all applicable charges for handling, transportation, administrative and other similar fees. Complete ATTACHMENT A: PRICING FORM and include in Vendor's response.

4.2 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 information to allow the Purchasing Agency to verify pricing at point of receipt matches the correct price from the original date of order. The following fields shall be included on all invoices, as relevant:

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 OR SERVICES ACCEPTED.

4.3 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 ATTACHMENT G: CERTIFICATION OF FINANCIAL CONDITION. The State is requiring this certification to minimize potential issues from contracting with a Vendor that is financially unstable. 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. The Contract Manager may require annual recertification of the Vendor's financial stability.

4.4 DELIVERY

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

**NCDOT Rail Division
Capital Yard Maintenance Facility
ATTN: Vanessa Sanzano PH: (919) 922-7974
860 Capital BLVD
Raleigh, NC 27603
*Delivery shall be Monday-Friday 7:00am-4:00pm ET***

Vendor shall notify contact above and confirm delivery at least 72 hours prior

NCDOT shall be responsible for unloading traction motors at Capital Yard.

Vendor should complete delivery within **seven hundred twenty (720)** consecutive calendar days after receipt of purchase order.

D87BTR traction motors	Delivery after receipt of PO (DAYS)	Proposed Alternative Delivery Schedule
First Group-7 motors	120	_____ Days
Second Group-7 motors	240	_____ Days
Third Group-6 motors	360	_____ Days
Fourth Group-6 motors	480	_____ Days
Fifth Group-6 motors	600	_____ Days
Sixth Group-6 motors	720	_____ Days

4.5 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 Business 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.

4.6 REFERENCES

Vendor shall provide at least three (3) references, using ATTACHMENT E: CUSTOMER REFERENCE FORM, for which it has experience with conversion of traction motors, overhaul of D87BTR traction motors, and a proven track record of delivering products that meet the specified requirements. Services shall be of similar size and scope to those proposed herein. The State may contact these references to determine whether the services provided are substantially similar in scope to those proposed herein and whether Vendor's performance has been satisfactory. The information obtained may be considered in the evaluation of the bid.

4.7 COMPONENT AND MODIFICATION LIST

Vendor shall note all components on the NCDOT D87BTR traction motor assembly for which the D87B assembly will require modifications. This list of items created by the Vendor shall be submitted with the bid proposal. Vendor shall complete and submit ATTACHMENT H: EMD TRACTION MOTOR OVERHAUL COMPONENT & MODIFICATION LIST with modification information for record purposes which are needed. Failure to submit shall result in Vendor's bid to be nonresponsive and will no longer be considered.

4.8 CERTIFICATIONS

Vendor facility must be certified by The Association of American Railroads (AAR) M-1003.

For completion by Vendor: AAR M-1003 Certification #: _____

4.9 WARRANTY

Vendor shall provide a warranty of at least one (1) year for each tractor motor. The warranty shall include parts and labor from the date of acceptance confirmation by NCDOT.

4.10 PERSONNEL

Vendor warrants that qualified personnel shall provide Services under this Contract in a professional manner. "Professional manner" means that the personnel performing the Services will possess the skill and competence consistent with the prevailing business standards in the industry. Vendor will serve as the prime contractor under this Contract and shall be responsible for the performance and payment of all subcontractor(s) that may be approved by the State. Names of any third-party Vendors or subcontractors of Vendor may appear for purposes of convenience in Contract documents; and shall not limit Vendor's obligations hereunder. Vendor will retain an executive representation for functional and technical expertise as needed in order to incorporate any work by third party subcontractor(s).

Should the Vendor's bid result in an award, the Vendor shall be required to agree that it will not substitute key personnel assigned to the performance of the Contract without prior written approval by the Contract Lead. Vendor shall further agree that it will notify the Contract Lead of any desired substitution, including the name(s) and references of Vendor's recommended substitute personnel. The State will approve or disapprove the requested substitution in a timely manner. The State may, in its sole discretion, terminate the Services of any person providing Services under this Contract. Upon such termination, the State may request acceptable substitute personnel or terminate the contract Services provided by such personnel.

4.11 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 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.

4.12 AGENCY 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

5.0 SPECIFICATIONS AND SCOPE OF WORK

5.1 REPLACEMENT COMPONENTS

If a component is determined to be defective and unable to be re-qualified, the Vendor must replace it with an identical component matching the form and function of the components used in the D87BTR motors in NCDOT's F59PHI fleet. No substitutions or re-qualified parts will be accepted unless explicitly authorized by NCDOT. The Vendor shall note the defective component by the traction motor serial number in a Failed/Defective Component Report.

For any component deemed to be defective, and which will require replacement with a new component, the Vendor shall provide NCDOT with a quote for a replacement component. Upon approval of the quote by NCDOT, an amendment to the contract shall be initiated to authorize the updated scope of work.

5.2 DOCUMENTATION

Vendor shall prepare and maintain the following documentation and be required to provide NCDOT within five (5) calendar days of request:

- a. **Inbound Inspection Reports:** Shall be provided within two (2) weeks of receipt at Vendor facility. For each received motor, document the results of the visual and mechanical inspection, along with any findings from the electrical tests.
- b. **Failed/Defective Component Notice:** To be provided immediately after determination of failed component.
- c. **Traction Motor Component Test & Inspection Information Sheet:** After each component has been inspected, Vendor shall list the test and inspection findings on corresponding traction motor information sheet. After completion of each traction motor component inspection, provide completed traction motor information sheet, which shall include the listing of the individual components.
- d. **Comparison Report:** A detailed report upon completion of the first unit of comparison showing that the converted D87BTR motors are identical to the existing D87BTR motors in NCDOT's F59PHI fleet in all subcomponents (e.g. commutator, bearings, pinion gear, sensor holes and mounting). To be approved by NCDOT to ensure the Vendor follows NCDOT's standardization efforts.
- e. **Post Rebuild Test Reports:** To be provided prior to shipping to Capital Yard. Include the results of operational testing, verifying that the converted motors meet performance standards aligned with those in the F59PHI fleet.

The Vendor may utilize their standard report format for each item noted above.

Reports shall be prepared separately for each traction motor serial number.

5.3 COMPLIANCE WITH STANDARDS AND PRACTICES

Vendor shall comply with Electro-Motive Division (EMD) Maintenance Instruction 3902 - [Build-up of Traction Motor Mounting Assembly](#), as well as the D87BTR conversion standards outlined by OEM documentation, to ensure consistency with the existing D87BTR motors. All overhaul and conversion functions must adhere to relevant OEM, EMD, IEEE, and AAR standards, ensuring full compatibility with NCDOT's current fleet of F59PHI locomotives.

5.4 GENERAL SCOPE OF WORK

Vendor shall be required to perform a basic traction motor overhaul and conversion, ensuring that the rebuilt D87B motors are converted to D87BTR motors and are fully compatible with relevant locomotive systems in NCDOT's locomotives. All components

used must match the D87BTR design currently in use on NCDOT's F59PHI locomotives. The items noted in this section shall be the minimum tasks required for overhaul of NCDOT traction motors.

Vendor shall pick up the traction motors from the NCDOT facility after providing at least three (3) day notice. NCDOT shall be responsible for loading traction motors on the pre-arranged flatbed truck(s).

The gear ratio of 56:21 and the 21-tooth pinion gear (EMD part # 9556213) must be installed and verified to match the operational performance of existing fleet motors.

For any work scope tasks listed below, if components are determined to be failed or defective and unable to be re-qualified, refer to Section 5.1 Replacement Components for instructions on replacement or disposition.

5.5 OVERHAUL TASKS

Items listed in this section are not required to be addressed in the order listed and shall be conducted in the order specified by the Vendors' standard procedure for traction motor overhauls and conversions.

Component Inspections-All inspections shall be documented, and results must be compared to baseline performance data from existing D87BTR motors. Each test result must verify that the motor will meet the same operational parameters as the motors installed on NCDOT F59PHI locomotives. All inspection documentation and reports shall be provided to NCDOT.

All inspections must ensure the requalification of components to meet the performance standards of the D87BTR traction motors in NCDOT's F59PHI fleet. Specific tasks include:

1. Conduct a nomenclature inspection, inbound visual, and mechanical inspection and note results in the inbound inspection report.
2. Conduct inbound electrical testing and note defects and results in the inbound inspection report.
3. Conduct thorough failure analysis on motor, documenting any missing and/or damaged components in the failed/defective component report.
4. Conduct a thorough electrical evaluation of the motor including insulation to ground resistance test, winding insulation resistance test, surge comparison test, D.C. high potential test, bar to bar test and armature core loss test. Note results in the component test and inspection information sheet.
5. Conduct a total indicator runout (TIR) inspection on the shaft to ensure that it is not bent or cracked and note results in the component test and information sheet.
6. Conduct fastener/threaded hole inspection and note results in the component test and information sheet.
7. Conduct nose suspension lug inspection and note results in the component test and information sheet.
8. Conduct component condition inspection and note results in the component test and information sheet.
9. Conduct a thorough evaluation of all mechanical properties of the motor including all support bearing housing measurements, PE and OPE bearing journal and housing measurements and frame qualification. Note results in the component test and information sheet.
10. Perform final ground insulation inspection with all brushes engaged and note results in the post rebuild test report.

5.6 COMPONENTS

Vendor shall ensure that all components used in the conversion are identical to those used in the D87BTR motors on NCDOT's F59PHI locomotives. Specific tasks include:

1. Disassemble motor to a point where interior components can be thoroughly inspected, and conditions can be documented.
2. Remove existing 21-tooth pinion gear from existing shaft.
3. Re-qualify the existing shaft.
4. Install a new 21 tooth pinion gear on re-qualified shaft (EMD part #9556213), ensuring the material and specifications exactly match the pinions used in the existing D87BTR motors.
5. Clean all components removed for re-qualification and bake components in a temperature-controlled oven.

6. Resin-treat armature and stator.
7. Resurface commutator surface to proper finish and undercut commutator mica.
8. Balance armature to OEM specifications.
9. Supply and install new FAG motor bearings.
10. Supply and install new brushes.
11. Re-qualify/rebuild four (4) brush holders with maximum pressure springs.
12. Remove and retire all existing gaskets. Supply and install new gaskets.
13. Remove and retire all existing cable leads and lugs. Supply and install new external cable leads, including lugs and knife terminals. New lugs shall be a half clasp connector type.
14. Supply one (1) set (per motor) of cover gaskets designed to prevent moisture ingress. Bottom commutator end covers shall be latching type. Bolt-on style covers will not be accepted.
15. Remove the existing D87B stator frame and replace it with a new D87BTR stator frame. Re-qualified stator frames are not acceptable.
16. Assemble/convert existing motor by installing new or re-qualified components into the new D87BTR traction motor stator frame.
17. Confirm frame is equipped with a threaded speed probe sensor hole at the armature end to match the existing NCDOT D87BTR motors. If sensor hole is not present, a new speed sensor hole shall be drilled and threaded to accept an EMD part # 8496807 speed sensor.
18. Install new sealed FAG bearings to align with the maintenance intervals and performance standards of NCDOT's F59PHI fleet. Only sealed bearings that match existing specifications will be accepted.
19. Ensure each motor is equipped with a threaded speed probe sensor hole at the armature end to match EMD part #8496807 (60 tooth). Re-qualify the existing speed probe gear if present to ensure compatibility with the D87BTR setup. If the sensor hole is missing or improperly located, drill and thread the hole to match existing D87BTR specifications.
20. Align brushes to make proper contact with the commutator surface and properly set brush holder bottom clearance to proper dimensions as noted in OEM specifications.
21. Paint traction motor frame black.

5.7 TASKS/DELIVERABLES

Motors must be delivered in secure, weather-resistant packaging to prevent moisture and debris infiltration into blower opening, and to prevent damage during transit and storage until installation.

5.8 CERTIFICATION AND SAFETY LABELS

Any manufactured items and/or fabricated assemblies provided hereunder that are subject to operation under pressure, operation by connection to an electric source, or operation involving a connection to a manufactured, natural, or LP gas source shall be constructed and approved in a manner acceptable to the appropriate inspector which customarily requires the label or re-examination listing or identification marking of the appropriate safety standard organization *acceptable to govern inspection where the item is to be located*, such as the American Society of Mechanical Engineers for pressure vessels; the Underwriters Laboratories and /or National Electrical Manufacturers' Association for electrically operated assemblies; or the American Gas Association for gas operated assemblies, where such approvals of listings have been established for the type of device offered and furnished. Further, all items furnished shall meet all requirements of the Occupational Safety and Health Act (OSHA), and state and federal requirements relating to clean air and water pollution.

5.9 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 on an attached sheet. 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.

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 #:	
Email:	

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 #:	
Email:	

6.2 CONTINUOUS IMPROVEMENT

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

6.3 ACCEPTANCE OF WORK

Performance of the work and/or delivery of Goods shall be conducted and completed at least in accordance with the Contract requirements and recognized and customarily accepted industry practices. Performance shall be considered complete when the Services or Goods are approved as acceptable by the Contract Administrator. NCDOT will provide written acceptance confirmation upon the completion of each visual inspection on each received motor.

Acceptance of Vendor's work product shall be based on the following criteria:

The Vendor shall perform comprehensive post-conversion testing of each traction motor per the EMD test procedures, verifying all electrical and mechanical characteristics align with the existing D87BTR motors used on NCDOT's F59PHI locomotives. Testing should include measurements of bearing fit, commutator wear, and gear backlash, ensuring all rebuilt motors meet OEM specifications.

The State shall have the obligation to notify Vendor, in writing ten (10) calendar days following completion of such work or delivery of a deliverable described in the Contract that it is not acceptable. The notice shall specify in reasonable detail the reason(s) it is unacceptable. Acceptance by the State shall not be unreasonably withheld; but may be conditioned or delayed as required for reasonable review, evaluation, installation, or testing, as applicable to the work or deliverable. Final acceptance is expressly conditioned upon completion of all applicable assessment procedures. Should the work or deliverables fail to meet any

specifications, acceptance criteria or otherwise fail to conform to the Contract, the State may exercise any and all rights hereunder, including, for Goods deliverables, such rights provided by the Uniform Commercial Code, as adopted in North Carolina.

6.4 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 a 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.

6.5 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. Amendments to the contract can only be made through the contract administrator.

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7.0 ATTACHMENTS

ATTACHMENT A: PRICING

Complete and return the Pricing associated with this IFB, which can be found at the table below:

FURNISH AND DELIVER:

Item #	QTY.	UOM	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1.	38	EA	D87B to D87BTR Conversions per specifications in Section 5.0	\$ _____	\$ _____

TOTAL EXTENDED PRICE \$ _____

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****IMPORTANT NOTICE****

RETURN THE REQUIRED ATTACHMENTS WITH YOUR RESPONSE

FOLLOW THE LINKS TO ACCESS EACH ATTACHMENT

ATTACHMENT B: INSTRUCTIONS TO VENDORS

The Instructions to Vendors, which are incorporated herein by this reference, may be found here:

<https://ncadmin.nc.gov/formnorth-carolina-instructions-vendors032023/download?attachment>

ATTACHMENT C: NORTH CAROLINA GENERAL TERMS & CONDITIONS

The North Carolina General Terms and Conditions, which are incorporated herein by this reference, may be found here:

<https://www.doa.nc.gov/form-north-carolina-general-terms-and-conditions-11-2023/open>

ATTACHMENT D: HUB SUPPLEMENTAL VENDOR INFORMATION

Complete and return the Historically Underutilized Businesses (HUB) Vendor Information form, which can be found at the following link:

<https://www.doa.nc.gov/pandc/onlineforms/form-hub-supplemental-vendor-information-9-2021/download>

(THIS ATTACHMENT MUST BE COMPLETED AND RETURNED)

ATTACHMENT E: CUSTOMER REFERENCE FORM

Complete and return the Customer Reference Form, which can be found at the following link:

<https://ncadmin.nc.gov/media/15503/open>

(THIS ATTACHMENT MUST BE COMPLETED AND RETURNED)

ATTACHMENT F: LOCATION OF WORKERS UTILIZED BY VENDOR

Complete and return the Location of Workers Utilized by Vendor, which can be found at the following link:

<https://www.doa.nc.gov/pandc/onlineforms/form-location-workers-09-2021/download>

(THIS ATTACHMENT MUST BE COMPLETED AND RETURNED)

ATTACHMENT G: CERTIFICATION OF FINANCIAL CONDITION

Complete, sign, and return the Certification of Financial Condition, which can be found at the following link:

<https://www.doa.nc.gov/pandc/onlineforms/form-certification-financial-condition-09-2021/download>

(THIS ATTACHMENT MUST BE COMPLETED AND RETURNED)

***** Failure to Return the Required Attachments May Eliminate
Your Response from Further Consideration *****

ATTACHMENT H: EMD TRACTION MOTOR OVERHAUL COMPONENT & MODIFICATION LIST

Complete and return the EMD Traction Motor Overhaul Component & Modification table below. Vendor shall list components and modification needed for D87BTR Traction Motor Overhaul associated with this IFB.

	COMPONENT	MODIFICATIONS REQUIRED
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