



LEXINGTON

Lexington-Fayette Urban County Government

Lexington, Kentucky
Horse Capital of the World

Division of Central Purchasing

Date of Issue: July 5, 2022

INVITATION TO BID #77-2022 Sideloader

Bid Opening Date: July 19, 2022 **Bid Opening Time:** 2:00 PM
Address: All bids must be submitted on line at <https://lexingtonky.ionwave.net/>
Type of Bid: Price Contract

Pre Bid Meeting: N/A **Pre Bid Time:** N/A
Address: N/A

Sealed bids will ONLY be received online at <https://lexingtonky.ionwave.net/> until **2:00 PM**, prevailing local time on **07/19/2022**. Bids must be submitted/uploaded by the above-mentioned date and time.

Bids are to include all shipping, handling and associated fees to the point of delivery (unless otherwise specified in the bid documents below) located at: Lexington, KY

<input type="checkbox"/> Bid Specifications Met attached to bid proposal submitted.	<input checked="" type="checkbox"/> Check One: Exceptions to Bid Specifications. <i>Exceptions shall be itemized and</i>	<i>Calendar Based on P.O. Issue Date</i> Proposed Delivery: 2023 days after acceptance of bid.
Procurement Card Usage —The Lexington-Fayette Urban County Government may be using Procurement Cards to purchase goods and services and also to make payments. Will you accept Procurement Cards? <input type="checkbox"/> Yes <input type="checkbox"/> No		

To expedite award, the forms in this document should be completed and uploaded with your bid.

Submitted by: World wide Equipment
Firm Name
945 Nandino Blvd.

Address
Lexington Ky 40511
City, State & Zip

Bid must be signed: [Signature] G.M.
Signature of Authorized Company Representative – Title

Jim Dotson
Representative's Name (Typed or printed)
559-281-5152

Area Code - Phone – Extension *Fax #*
jimdotson@thetruckpeople.com
E-Mail Address

The Affidavit in this bid must be completed before your firm can be considered for award of this contract.

AFFIDAVIT

Comes the Affiant, World wide Egypt, and after being first duly sworn under penalty of perjury as follows:

1. His/her name is Jim Dotson and he/she is the individual submitting the bid or is the authorized representative of World wide Egypt the entity submitting the bid (hereinafter referred to as "Bidder")
2. Bidder will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the bid is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes and fees during the life of the contract.
3. Bidder will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to award of the contract.
4. Bidder has authorized the Division of Central Purchasing to verify the above-mentioned information with the Division of Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license has not been obtained.
5. Bidder has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Bidder will not violate any provision of the campaign finance laws of the Commonwealth.
6. Bidder has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government Code of Ordinances, known as "Ethics Act."
7. Bidder acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a person is aware or should have been aware that his conduct is of that nature or that the circumstance exists.

Further, Affiant sayeth naught. World wide Egypt

STATE OF Kentucky

COUNTY OF Fayette

The foregoing instrument was subscribed, sworn to and acknowledged before me by Jim Dotson on this the 15th day of July, 2022

My Commission expires: 4/26/25

Steph Carthel Smith
NOTARY PUBLIC, STATE AT LARGE

Please refer to Section II. Bid Conditions, Item "U" prior to completing this form

STEPHEN CARTHEL SMITH
Notary Public
Commonwealth of Kentucky
Commission Number KYNP27686
My Commission Expires Apr 26, 2025

I. GREEN PROCUREMENT

A. ENERGY

The Lexington-Fayette Urban County Government is committed to protecting our environment and being fiscally responsible to our citizens.

The Lexington-Fayette Urban County Government mandates the use of Energy Star compliant products if they are available in the marketplace (go to www.Energystar.gov). If these products are available, but not submitted in your pricing, your bid will be rejected as non-compliant.

ENERGY STAR is a government program that offers businesses and consumers energy-efficient solutions, making it easy to save money while protecting the environment for future generations.

Key Benefits

These products use 25 to 50% less energy
Reduced energy costs without compromising quality or performance
Reduced air pollution because fewer fossil fuels are burned
Significant return on investment
Extended product life and decreased maintenance

B. GREEN SEAL CERTIFIED PRODUCTS

The Lexington-Fayette Urban County Government is also committed to using other environmentally friendly products that do not negatively impact our environment. Green Seal is a non-profit organization devoted to environmental standard setting, product certification, and public education.

Go to www.GreenSeal.org to find available certified products. These products will have a reduced impact on the environment and on human health. The products to be used must be pre-approved by the LFUCG prior to commencement of any work in any LFUCG facility. If a Green Seal product is not available, the LFUCG must provide a signed waiver to use an alternate product. Please provide information on the Green Seal products being used with your bid response.

C. GREEN COMMUNITY

The Lexington-Fayette Urban County Government (LFUCG) serves as a principal, along with the University of Kentucky and Fayette County Public Schools, in the Bluegrass Partnership for a Green Community. The Purchasing Team component of the Partnership collaborates on economy of scale purchasing that promotes and enhances environmental initiatives. Specifically, when applicable, each principal is interested in obtaining best value products and/or services which promote environment initiatives via solicitations and awards from the other principals.

If your company is the successful bidder on this Invitation For Bid, do you agree to extend the same product/service pricing to the other principals of the Bluegrass Partnership for a Green Community (i.e. University of Kentucky and Fayette County Schools) if requested?

Yes No

II. Bid Conditions

- A. No bid may be withdrawn for a period of sixty (60) days after the date and time set for opening.
- B. No bid may be altered after the date and time set for opening. In the case of obvious errors, the Division of Central Purchasing may permit the withdrawal of a bid. The decision as to whether a bid may be withdrawn shall be that of the Division of Central Purchasing.
- C. Acceptance of this proposal shall be enactment of an Ordinance by the Urban County Council.
- D. The bidder agrees that the Urban County Government reserves the right to reject any and all bids for either fiscal

or technical reasons, and to award each part of the bid separately, all parts to one vendor or all parts to multiple vendors.

- E. Minor exceptions may not eliminate the bidder. The decision as to whether any exception is minor shall be entirely that of the head of the requisitioning Department or Division and the Director of the Division of Central Purchasing. The Urban County Government may waive technicalities and informalities where such waiver would best serve the interests of the Urban County Government.
- F. Manufacturer's catalogue numbers, trade names, etc., where shown herein are for descriptive purposes and are to guide the bidder in interpreting the standard of quality, design, and performance desired, and shall not be construed to exclude proposals based on furnishing other types of materials and/or services. However, any substitution or departure proposed by the bidder must be clearly noted and described; otherwise, it will be assumed that the bidder intends to supply items specifically mentioned in this Invitation for Bids.
- G. The Urban County Government may require demonstrations of the materials proposed herein prior to acceptance of this proposal.
- H. Bids must be submitted on this form and must be signed by the bidder or his authorized representative. Unsigned bids will not be considered.
- I. Bids must be submitted prior to the date and time indicated for opening. Bids submitted after this time will not be considered.
- J. All bids mailed must be submitted in the Ion Wave online portal at <https://lexingtonky.ionwave.net/>
- K. Bidder is requested to show both unit prices and lot prices. In the event of error, the unit price shall prevail.
- L. A certified check or Bid Bond in the amount of XX percent of the bid price must be attached hereto. This check must be made payable to the Lexington-Fayette Urban County Government, and will be returned when the material and/or services specified herein have been delivered in accordance with specifications. In the event of failure to perform within the time period set forth in this bid, it is agreed the certified check may be cashed and the funds retained by the Lexington-Fayette Urban County Government as liquidated damages. Checks of unsuccessful bidders will be returned when the bid has been awarded.
- M. The delivery dates specified by bidder may be a factor in the determination of the successful bidder.
- N. Tabulations of bids received may be mailed to bidders. Bidders requesting tabulations must enclose a stamped, self-addressed envelope with the bid.
- O. The Lexington-Fayette Urban County Government is exempt from Kentucky Sales Tax and Federal Excise Tax on materials purchased from this bid invitation. Materials purchased by the bidder for construction projects are not tax exempt and are the sole responsibility of the bidder.
- P. All material furnished hereunder must be in full compliance with OSHA regulations.
- Q. If more than one bid is offered by one party, or by any person or persons representing a party, all such bids shall be rejected.
- R. Signature on the face of this bid by the Bidder or his authorized representative shall be construed as acceptance of and compliance with all terms and conditions contained herein.
- S. The Entity (regardless of whether construction contractor, non-construction contractor or supplier) agrees to provide equal opportunity in employment for all qualified persons, to prohibit discrimination in employment because of race, color, religion, sex (including pregnancy, sexual orientation or gender identity), national origin, disability, age, genetic information, political affiliation, or veteran status, and to promote equal employment through a positive, continuing program from itself and each of its sub-contracting agents. This program of equal employment opportunity shall apply to every aspect of its employment policies and practices.
- T. The Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) requires that any county, city, town, school district, water district, hospital district, or other political subdivision of the state shall include in directly

or indirectly publicly funded contracts for supplies, materials, services, or equipment hereinafter entered into the following provisions:

During the performance of this contract, the contractor agrees as follows:

- (1) *The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age or national origin;*
- (2) *The contractor will state in all solicitations or advertisements for employees placed by or on behalf of the contractors that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age or national origin;*
- (3) *The contractor will post notices in conspicuous places, available to employees and applicants for employment, setting forth the provisions of the non-discrimination clauses required by this section; and*
- (4) *The contractor will send a notice to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding advising the labor union or workers' representative of the contractor's commitments under the nondiscrimination clauses.*

The Act further provides:

KRS 45.610. Hiring minorities - Information required

- (1) *For the length of the contract, each contractor shall hire minorities from other sources within the drawing area, should the union with which he has collective bargaining agreements be unwilling to supply sufficient minorities to satisfy the agreed upon goals and timetable.*
- (2) *Each contractor shall, for the length of the contract, furnish such information as required by KRS 45.560 to KRS 45.640 and by such rules, regulations and orders issued pursuant thereto and will permit access to all books and records pertaining to his employment practices and work sites by the contracting agency and the department for purposes of investigation to ascertain compliance with KRS 45.560 to 45.640 and such rules, regulations and orders issued pursuant thereto.*

KRS 45.620. Action against contractor - Hiring of minority contractor or subcontractor

- (1) *If any contractor is found by the department to have engaged in an unlawful practice under this chapter during the course of performing under a contract or subcontract covered under KRS 45.560 to 45.640, the department shall so certify to the contracting agency and such certification shall be binding upon the contracting agency unless it is reversed in the course of judicial review.*
- (2) *If the contractor is found to have committed an unlawful practice under KRS 45.560 to 45.640, the contracting agency may cancel or terminate the contract, conditioned upon a program for future compliance approved by the contracting agency and the department. The contracting agency may declare such a contractor ineligible to bid on further contracts with that agency until such time as the contractor complies in full with the requirements of KRS 45.560 to 45.640.*
- (3) *The equal employment provisions of KRS 45.560 to 45.640 may be met in part by a contractor by subcontracting to a minority contractor or subcontractor. For the provisions of KRS 45.560 to 45.640, a minority contractor or subcontractor shall mean a business that is owned and controlled by one or more persons disadvantaged by racial or ethnic circumstances.*

KRS 45.630 Termination of existing employee not required, when

Any provision of KRS 45.560 to 45.640 notwithstanding, no contractor shall be required to terminate an existing employee upon proof that that employee was employed prior to the date of the contract.

KRS 45.640 Minimum skills

Nothing in KRS 45.560 to 45.640 shall require a contractor to hire anyone who fails to demonstrate the minimum skills required to perform a particular job.

It is recommended that all of the provisions above quoted to be included as special conditions in each contract.

In the case of a contract exceeding \$250,000, the contractor is required to furnish evidence that his work-force in Kentucky is representative of the available work-force in the area from which he draws employees, or to supply an Affirmative Action plan which will achieve such representation during the life of the contract.

- U. Any party, firm or individual submitting a proposal pursuant to this invitation must be in compliance with the requirements of the Lexington-Fayette Urban County Government regarding taxes and fees before they can be considered for award of this invitation and must maintain a "current" status with regard to those taxes and fees throughout the term of the contract. The contractor must be in compliance with Chapter 13 from the Code of Ordinances of the Lexington-Fayette Urban County Government. The contractor must be in compliance with Ordinance 35-2000 pursuant to contractor registration with the Division of Building Inspection. If applicable, said business must have a Fayette County business license.

Pursuant to KRS 45A.343 and KRS 45A.345, the contractor shall

- (1) *Reveal any final determination of a violation by the contractor within the previous five year period pursuant to KRS Chapters 136 (corporation and utility taxes), 139 (sales and use taxes), 141 (income taxes), 337 (wages and hours), 338 (occupational safety and health of employees), 341 (unemployment and compensation) and 342 (labor and human rights) that apply to the contractor; and*
- (2) *Be in continuous compliance with the above-mentioned KRS provisions that apply to the contractor for the duration of the contract.*

A contractor's failure to reveal the above or to comply with such provisions for the duration of the contract shall be grounds for cancellation of the contract and disqualification of the contractor from eligibility for future contracts for a period of two (2) years.

- V. Vendors who respond to this invitation have the right to file a notice of contention associated with the bid process or to file a notice of appeal of the recommendation made by the Director of Central Purchasing resulting from this invitation.

Notice of contention with the bid process must be filed within 3 business days of the bid/proposal opening by (1) sending a written notice, including sufficient documentation to support contention, to the Director of the Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his/her contention with the bid process. After consulting with the Commissioner of Finance the Chief Administrative Officer and reviewing the documentation and/or hearing the vendor, the Director of Central Purchasing shall promptly respond in writing findings as to the compliance with bid processes. If, based on this review, a bid process irregularity is deemed to have occurred the Director of Central Purchasing will consult with the Commissioner of Finance, the Chief Administrative Officer and the Department of Law as to the appropriate remedy.

Notice of appeal of a bid recommendation must be filed within 3 business days of the bid recommendation by (1) sending a written notice, including sufficient documentation to support appeal, to the Director, Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his appeal. After reviewing the documentation and/or hearing the vendor and consulting with the Commissioner of Finance and the Chief Administrative Officer, the Director of Central Purchasing shall in writing, affirm or withdraw the recommendation.

III. Procurement Contract Bid Conditions

- A. The terms of this agreement shall be for 1 year(s) from the date of acceptance of this contract by the Lexington-Fayette Urban County Government. This agreement may be automatically extended for an additional 1 year(s) renewal. This contract may be canceled by either party thirty (30) days after delivery by canceling party of written notice of intent to cancel to the other contracting party.

- B. Price Changes **(Space Checked Applies)**
 - (XXX)1. Prices quoted in response to the Invitation shall be firm prices for the first 90 days of the Procurement Contract. After 90 days, prices may be subject to revision and such changes shall be based on general industry changes. Revision may be either increases or decreases and may be requested by either party. There will be no more than one (1) price adjustment per quarter. Requests for price changes shall be received in writing at least twenty (20) days prior to the effective date and are subject to written acceptance before becoming effective. Proof of the validity of a request for revision shall be responsibility of the requesting party. The Lexington-Fayette Urban County Government shall receive the benefit of any decline that the seller shall offer his other accounts.

 - () 2. No provision for price change is made herein. Prices are to be firm for the term of this contract.

 - () 3. See bid specifications.

- C. If any contract item is not available from the vendor, the Lexington-Fayette Urban County Government, at its option, may permit the item to be back-ordered or may procure the item on the open market.

- D. All invoices must bear reference to the Lexington-Fayette Urban County Government Purchasing document numbers which are being billed.

- E. This contract may be canceled by the Lexington-Fayette Urban County Government if it is determined that the Bidder has failed to perform under the terms of this agreement, such cancellation to be effective upon receipt of written notice of cancellation by the Bidder.

- F. No substitutions for articles specified herein may be made without prior approval of the Division of Central Purchasing.

EQUAL OPPORTUNITY AGREEMENT

Standard Title VI Assurance

The Lexington Fayette-Urban County Government, (hereinafter referred to as the "Recipient") hereby agrees that as a condition to receiving any Federal financial assistance from the U.S. Department of Transportation, it will comply with Title VI of the Civil Rights Act of 1964, 78Stat.252, 42 U.S.C. 2000d-4 (hereinafter referred to as the "Act"), and all requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. Department of Transportation, Subtitle A, Office of the Secretary, (49 CFR, Part 21) Nondiscrimination in Federally Assisted Program of the Department of Transportation – Effectuation of Title VI of the Civil Rights Act of 1964 (hereinafter referred to as the "Regulations") and other pertinent directives, no person in the United States shall, on the grounds of race, color, national origin, sex, age (over 40), religion, sexual orientation, gender identity, veteran status, or disability be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which the Recipient receives Federal financial assistance from the U.S. Department of Transportation, including the Federal Highway Administration, and hereby gives assurance that will promptly take any necessary measures to effectuate this agreement. This assurance is required by subsection 21.7(a) (1) of the Regulations.

The Law

- Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.
- Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment discrimination by contractor and sub-contractor doing business with the Federal Government or recipients of Federal funds. This order was later amended by Executive Order No. 11375 to prohibit discrimination on the basis of sex.
- Section 503 of the Rehabilitation Act of 1973 states: *The Contractor will not discriminate against any employee or applicant for employment because of physical or mental disability.*
- Section 2012 of the Vietnam Era Veterans Readjustment Act of 1973 requires Affirmative Action on behalf of disabled veterans and veterans of the Vietnam Era by contractors having Federal contracts.
- Section 206(A) of Executive Order 12086, Consolidation of Contract Compliance Functions for Equal Employment Opportunity, states: *The Secretary of Labor may investigate the employment practices of any Government contractor or sub-contractor to determine whether or not the contractual provisions specified in Section 202 of this order have been violated.*

The Lexington-Fayette Urban County Government practices Equal Opportunity in recruiting, hiring and promoting. It is the Government's intent to affirmatively provide employment opportunities for those individuals who have previously not been allowed to enter into the mainstream of society. Because of its importance to the local Government, this policy carries the full endorsement of the Mayor, Commissioners, Directors and all supervisory personnel. In following this commitment to Equal Employment Opportunity and because the Government is the benefactor of the Federal funds, it is both against the Urban County Government policy and illegal for the Government to let contracts to companies which knowingly or unknowingly practice discrimination in their employment practices. Violation of the above mentioned ordinances may cause a contract to be canceled and the contractors may be declared ineligible for future consideration.

Please sign this statement in the appropriate space acknowledging that you have read and understand the provisions contained herein. Return this document as part of your application packet.

Bidders

I/We agree to comply with the Civil Rights Laws listed above that govern employment rights of minorities, women, veteran status, disability and age.

Signature

Name of Business


GENERAL PROVISIONS OF BID CONTRACT

By signing the below, bidder acknowledges that it understands and agrees with the following provisions related to its bid response and the provision of any goods or services to LFUCG upon selection by LFUCG pursuant to the bid request:

1. Bidder shall comply with all Federal, State & Local regulations concerning this type of service or good. All applicable state laws, ordinances and resolutions (including but not limited to Section 2-33 (Discrimination due to sexual orientation or gender identity) and Chapter 13 (Licenses and Regulations) of the Lexington-Fayette Urban County Government Code of Ordinances, and Resolution No. 484-17 (Minority, Women, and Veteran-Owned Businesses)) and the regulations of all authorities having jurisdiction over the project shall apply to the contract, and shall be deemed to be incorporated herein by reference.
2. Failure to submit ALL forms and information required by LFUCG may be grounds for disqualification.
3. Addenda: All addenda and IonWave Q&A, if any, must be considered by the bidder in making its response, and such addenda shall be made a part of the requirements of the bid contract. Before submitting a bid response, it is incumbent upon bidder to be informed as to whether any addenda have been issued, and the failure of the bidder to cover any such addenda may result in disqualification of that response.
4. Bid Reservations: LFUCG reserves the right to reject any or all bid responses, to award in whole or part, and to waive minor immaterial defects in proposals. LFUCG may consider any alternative proposal that meets its basic needs.
5. Liability: LFUCG is not responsible for any cost incurred by bidder in the preparation of its response.
6. Changes/Alterations: Bidder may change or withdraw a proposal at any time prior to the opening; however, no oral modifications will be allowed. Only letters, or other formal written requests for modifications or corrections of a previously submitted proposal which is addressed in the same manner as the bid response, and received by LFUCG prior to the scheduled closing time for receipt of bids, will be accepted. The bid response when opened, will then be corrected in accordance with such written request(s), provided that the written request is contained in a sealed envelope which is plainly marked "modifications of bid response".
7. Clarification of Submittal: LFUCG reserves the right to obtain clarification of any point in a bid or to obtain additional information from any bidder.
8. Bribery Clause: By his/her signature on its response, bidder certifies that no employee of his/hers, any affiliate or subcontractor, has bribed or attempted to bribe an officer or employee of the LFUCG.
9. Additional Information: While not necessary, the bidder may include any product brochures, software documentation, sample reports, or other documentation that may assist LFUCG in better understanding and evaluating the bid response. Additional documentation shall not serve as a substitute for other documentation which is required by the LFUCG to be submitted with the bid response.
10. Ambiguity, Conflict or other Errors: If a bidder discovers any ambiguity, conflict, discrepancy, omission or other error in the bid request of LFUCG, it shall immediately notify LFUCG of such error in writing and request modification or clarification of the document if allowable by the LFUCG.
11. Agreement to Bid Terms: In submitting its bid response, the bidder agrees that it has carefully examined the specifications and all provisions relating to LFUCG's bid request, including but not limited to the bid contract. By submission of its bid response, bidder states that it understands the meaning, intent and requirements of LFUCG's bid request and agrees to the same. The successful bidder shall warrant that it is familiar with and understands all provisions herein and shall warrant that it can comply with them. No additional compensation to bidder shall be authorized for services, expenses, or goods reasonably covered under these provisions that the bidder omits from its bid response.
12. Cancellation: LFUCG may unilaterally terminate the bid contract with the selected bidder(s) at any time, with or without cause, by providing at least thirty (30) days advance written notice unless a different advance written notice

period is negotiated prior to contract approval. Payment for services or goods received prior to termination shall be made by the LFUCG provided these goods or services were provided in a manner acceptable to the LFUCG. Payment for those goods and services shall not be unreasonably withheld.

13. **Assignment of Contract:** The selected bidder(s) shall not assign or subcontract any portion of the bid contract with LFUCG without the express written consent of LFUCG. Any purported assignment or subcontract in violation hereof shall be void. It is expressly acknowledged that LFUCG shall never be required or obligated to consent to any request for assignment or subcontract; and further that such refusal to consent can be for any or no reason, fully within the sole discretion of LFUCG.
14. **No Waiver:** No failure or delay by LFUCG in exercising any right, remedy, power or privilege hereunder, nor any single or partial exercise thereof, nor the exercise of any other right, remedy, power or privilege shall operate as a waiver hereof or thereof. No failure or delay by LFUCG in exercising any right, remedy, power or privilege under or in respect of this bid proposal or bid contract shall affect the rights, remedies, powers or privileges of LFUCG hereunder or shall operate as a waiver thereof.
15. **Authority to do Business:** Each bidder must be authorized to do business under the laws of the Commonwealth of Kentucky and must be in good standing and have full legal capacity to provide the goods or services specified in the bid proposal. Each bidder must have all necessary right and lawful authority to submit the bid response and enter into the bid contract for the full term hereof including any necessary corporate or other action authorizing the bidder to submit the bid response and enter into this bid contract. If requested, the bidder will provide LFUCG with a copy of a corporate resolution authorizing this action and/or a letter from an attorney confirming that the proposer is authorized to do business in the Commonwealth of Kentucky. All bid responses must be signed by a duly authorized officer, agent or employee of the bidder.
16. **Governing Law:** This bid request and bid contract shall be governed by and construed in accordance with the laws of the Commonwealth of Kentucky. In the event of any proceedings regarding this matter, the bidder agrees that the venue shall be the Fayette County Circuit Court or the U.S. District Court for the Eastern District of Kentucky, Lexington Division and that the bidder expressly consents to personal jurisdiction and venue in such Court for the limited and sole purpose of proceedings relating to these matters or any rights or obligations arising thereunder.
17. **Ability to Meet Obligations:** Bidder affirmatively states that there are no actions, suits or proceedings of any kind pending against bidder or, to the knowledge of the bidder, threatened against the bidder before or by any court, governmental body or agency or other tribunal or authority which would, if adversely determined, have a materially adverse effect on the authority or ability of bidder to perform its obligations under this bid response or bid contract, or which question the legality, validity or enforceability hereof or thereof.
18. **Price Discrepancy:** When applicable, in case of price discrepancy, unit bid price written in words will prevail followed by unit price written in numbers then total amount bid per line item.
19. Bidder understands and agrees that its employees, agents, or subcontractors are not employees of LFUCG for any purpose whatsoever. Bidder is an independent contractor at all times related to the bid response or bid contract.
20. Contractor [or Vendor or Vendor's Employees] will not appropriate or make use of the Lexington-Fayette Urban County Government (LFUCG) name or any of its trade or service marks or property (including but not limited to any logo or seal), in any promotion, endorsement, advertisement, testimonial or similar use without the prior written consent of the government. If such consent is granted LFUCG reserves the unilateral right, in its sole discretion, to immediately terminate and revoke such use for any reason whatsoever. Contractor agrees that it shall cease and desist from any unauthorized use immediately upon being notified by LFUCG.
21. If any term or provision of this bid contract shall be found to be illegal or unenforceable, the remainder of the contract shall remain in full force and such term or provision shall be deemed stricken.



Signature

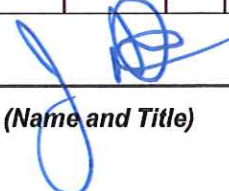
7-6-22


Date

WORKFORCE ANALYSIS FORM

Name of Organization: Worldwide Egypt

Categories	Total	White (Not Hispanic or Latino)		Hispanic or Latino		Black or African-American (Not Hispanic or Latino)		Native Hawaiian and Other Pacific Islander (Not Hispanic or Latino)		Asian (Not Hispanic or Latino)		American Indian or Alaskan Native (not Hispanic or Latino)		Two or more races (Not Hispanic or Latino)		Total	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Administrators		1														1	0
Professionals		1	1													2	1
Superintendents																0	0
Supervisors		2				1										3	0
Foremen		3														3	0
Technicians		15														15	0
Protective Service																0	0
Para-Professionals																0	0
Office/Clerical			4				1									0	5
Skilled Craft		2														2	0
Service/Maintenance		2														2	0
Total:																35	6

Prepared by:  G.M.
(Name and Title)

Date: 7-6-22
 Revised 2015-Dec-15
 7-6-22

**DIRECTOR, DIVISION OF CENTRAL PURCHASING
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT
200 EAST MAIN STREET
LEXINGTON, KENTUCKY 40507**

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE
EQUAL EMPLOYMENT OPPORTUNITIES AND DBE CONTRACT PARTICIPATION**

The Lexington-Fayette Urban County Government has set a goal that not less than ten percent (10%) of the total value of this contract be subcontracted to MBE/WBE's, and set a goal that not less than three percent (3%) of the total value of this contract be subcontracted to Veteran-Owned Small Businesses. The goal for the utilization of Certified MBE/WBE's and Veteran-Owned Small Businesses as subcontractors are recommended goals. Contractors who fail to meet such goals will be expected to provide written explanations to the Director of the Division of Central Purchasing of efforts they have made to accomplish the recommended goals and the extent to which they are successful in accomplishing the recommended goals will be a consideration in the procurement process.

For assistance in locating MBE/WBE Subcontractors contact Sherita Miller at 859/258-3320 or by writing the address listed below:

Sherita Miller, Division of Central Purchasing
Lexington-Fayette Urban County Government
200 East Main Street – Room 338
Lexington, Kentucky 40507
smiller@lexingtonky.gov

Lexington-Fayette Urban County Government
MWDBE PARTICIPATION GOALS

A. GENERAL

- 1) The LFUCG request all potential contractors to make a concerted effort to include Minority-Owned (MBE), Woman-Owned (WBE), Disadvantaged (DBE) Business Enterprises and Veteran-Owned Small Businesses (VOSB) as subcontractors or suppliers in their bids.
- 2) Toward that end, the LFUCG has established 10% of total procurement costs as a Goal for participation of Minority-Owned, Woman-Owned and Disadvantaged Businesses on this contract.
- 3) **It is therefore a request of each Bidder to include in its bid, the same goal (10%) for MWDBE participation and other requirements as outlined in this section.**
- 4) The LFUCG has also established a 3% of total procurement costs as a Goal for participation for of Veteran-Owned Businesses.
- 5) **It is therefore a request of each Bidder to include in its bid, the same goal (3%) for Veteran-Owned participation and other requirements as outlined in this section.**

B. PROCEDURES

- 1) The successful bidder will be required to report to the LFUCG, the dollar amounts of all payments submitted to Minority-Owned, Woman-Owned or Veteran-Owned subcontractors and suppliers for work done or materials purchased for this contract. (See Subcontractor Monthly Payment Report)
- 2) Replacement of a Minority-Owned, Woman-Owned or Veteran-Owned subcontractor or supplier listed in the original submittal must be requested in writing and must be accompanied by documentation of Good Faith Efforts to replace the subcontractor / supplier with another MWDBE Firm; this is subject to approval by the LFUCG. (See LFUCG MWDBE Substitution Form)
- 3) For assistance in identifying qualified, certified businesses to solicit for potential contracting opportunities, bidders may contact:
 - a) The Lexington-Fayette Urban County Government, Division of Central Purchasing (859-258-3320)
- 4) The LFUCG will make every effort to notify interested MWDBE and Veteran-Owned subcontractors and suppliers of each Bid Package, including information on the scope of work, the pre-bid meeting time and location, the bid date, and all other pertinent information regarding the project.

C. DEFINITIONS

- 1) A Minority-Owned Business Enterprise (MBE) is defined as a business which is certified as being at least 51% owned, managed and controlled by persons of African American, Hispanic, Asian, Pacific Islander, American Indian or Alaskan Native Heritage.
- 2) A Woman-Owned Business Enterprise (WBE) is defined as a business which is certified as being at least 51% owned, managed and controlled by one or more women.
- 3) A Disadvantaged Business (DBE) is defined as a business which is certified as being at least 51% owned, managed and controlled by a person(s) that are economically and socially disadvantaged.

- 4) A Veteran-Owned Small Business (VOSB) is defined as a business which is certified as being at least 51% owned, managed and controlled by a veteran and/or a service disabled veteran.
- 5) Good Faith Efforts are efforts that, given all relevant circumstances, a bidder or proposer actively and aggressively seeking to meet the goals, can reasonably be expected to make. In evaluating good faith efforts made toward achieving the goals, whether the bidder or proposer has performed the efforts outlined in the Obligations of Bidder for Good Faith Efforts outlined in this document will be considered, along with any other relevant factors.

D. OBLIGATION OF BIDDER FOR GOOD FAITH EFFORTS

- 1) **The bidder shall make a Good Faith Effort to achieve the Participation Goal for MWDBE and Veteran-Owned subcontractors/suppliers. The failure to meet the goal shall not necessarily be cause for disqualification of the bidder; however, bidders not meeting the goal are required to furnish with their bids written documentation of their Good Faith Efforts to do so.**
- 2) Award of Contract shall be conditioned upon satisfaction of the requirements set forth herein.
- 3) The Form of Proposal includes a section entitled "MWDBE Participation Form". The applicable information must be completed and submitted as outlined below.
- 4) **Failure to submit this information as requested may be cause for rejection of bid or delay in contract award.**

E. DOCUMENTATION REQUIRED FOR GOOD FAITH EFFORTS

- 1) Bidders reaching the Goal are required to submit only the MWDBE Participation Form." The form must be fully completed including names and telephone number of participating MWDBE firm(s); type of work to be performed; estimated value of the contract and value expressed as a percentage of the total Lump Sum Bid Price. The form must be signed and dated, and is to be submitted with the bid.
- 2) Bidders not reaching the Goal must submit the "MWDBE Participation Form", the "Quote Summary Form" and a written statement documenting their Good Faith Effort to do so. If bid includes no MWDBE and/or Veteran participation, bidder shall enter "None" on the subcontractor / supplier form). In addition, the bidder must submit written proof of their Good Faith Efforts to meet the Participation Goal:
 - a. Advertised opportunities to participate in the contract in at least two (2) publications of general circulation media; trade and professional association publications; small and minority business or trade publications; and publications or trades targeting minority, women and disadvantaged businesses not less than fifteen (15) days prior to the deadline for submission of bids to allow MWDBE firms and Veteran-Owned businesses to participate.
 - b. Included documentation of advertising in the above publications with the bidders good faith efforts package
 - c. Attended LFUCG Central Purchasing Economic Inclusion Outreach event
 - d. Attended pre-bid meetings that were scheduled by LFUCG to inform MWDBEs and/or Veteran-Owned businesses of subcontracting opportunities

- e. Sponsored Economic Inclusion event to provide networking opportunities for prime contractors and MWDBE firms and Veteran-Owned businesses.
- f. Requested a list of MWDBE and/or Veteran subcontractors or suppliers from LFUCG and showed evidence of contacting the companies on the list(s).
- g. Contacted organizations that work with MWDBE companies for assistance in finding certified MWBDE firms and Veteran-Owned businesses to work on this project. Those contacted and their responses should be a part of the bidder's good faith efforts documentation.
- h. Sent written notices, by certified mail, email or facsimile, to qualified, certified MWDBEs and/or Veteran-Owned businesses soliciting their participation in the contract not less than seven (7) days prior to the deadline for submission of bids to allow them to participate effectively.
- i. Followed up initial solicitations by contacting MWDBEs and Veteran-Owned Businesses to determine their level of interest.
- j. Provided the interested MWBDE firm and/or Veteran-Owned business with adequate and timely information about the plans, specifications, and requirements of the contract.
- k. Selected portions of the work to be performed by MWDBE firms and/or Veteran-Owned businesses in order to increase the likelihood of meeting the contract goals. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate MWDBE and Veteran participation, even when the prime contractor may otherwise perform these work items with its own workforce
- l. Negotiated in good faith with interested MWDBE firms and Veteran-Owned businesses not rejecting them as unqualified without sound reasons based on a thorough investigation of their capabilities. Any rejection should be so noted in writing with a description as to why an agreement could not be reached.
- m. Included documentation of quotations received from interested MWDBE firms and Veteran-Owned businesses which were not used due to uncompetitive pricing or were rejected as unacceptable and/or copies of responses from firms indicating that they would not be submitting a bid.
- n. Bidder has to submit sound reasons why the quotations were considered unacceptable. The fact that the bidder has the ability and/or desire to perform the contract work with its own forces will not be considered a sound reason for rejecting a MWDBE and/or Veteran-Owned business's quote. Nothing in this provision shall be construed to require the bidder to accept unreasonable quotes in order to satisfy MWDBE and Veteran goals.
- o. Made an effort to offer assistance to or refer interested MWDBE firms and Veteran-Owned businesses to obtain the necessary equipment, supplies, materials, insurance and/or bonding to satisfy the work requirements of the bid proposal
- p. Made efforts to expand the search for MWBE firms and Veteran-Owned businesses beyond the usual geographic boundaries.

q. Other--any other evidence that the bidder submits which may show that the bidder has made reasonable good faith efforts to include MWDBE and Veteran participation.

Note: Failure to submit any of the documentation requested in this section may be cause for rejection of bid. Bidders may include any other documentation deemed relevant to this requirement which is subject to review by the MBE Liaison. Documentation of Good Faith Efforts must be submitted with the Bid, if the participation Goal is not met.



MINORITY BUSINESS ENTERPRISE PROGRAM

Sherita Miller, MPA
Minority Business Enterprise Liaison
Division of Central Purchasing
Lexington-Fayette Urban County Government
200 East Main Street
Lexington, KY 40507
smiller@lexingtonky.gov
859-258-3323

OUR MISSION: The mission of the Minority Business Enterprise Program is to facilitate the full participation of minority and women owned businesses in the procurement process and to promote economic inclusion as a business imperative essential to the long term economic viability of Lexington-Fayette Urban County Government.

To that end the city council adopted and implemented Resolution 484-2017 – A Certified Minority, Women and Disadvantaged Business Enterprise ten percent (10%) minimum goal and a three (3%) minimum goal for Certified Veteran-Owned Small Businesses and Certified Service Disabled Veteran – Owned Businesses for government contracts.

The resolution states the following definitions shall be used for the purposes of reaching these goals (a full copy is available in Central Purchasing):

Certified Disadvantaged Business Enterprise (DBE) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a person(s) who is socially and economically disadvantaged as define by 49 CFR subpart 26.

Certified Minority Business Enterprise (MBE) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by an ethnic minority (i.e. African American, Asian American/Pacific Islander, Hispanic Islander, Native American/Native Alaskan Indian) as defined in federal law or regulation as it may be amended from time-to-time.

Certified Women Business Enterprise (WBE) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a woman.

Certified Veteran-Owned Small Business (VOSB) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a veteran who served on active duty with the U.S. Army, Air Force, Navy, Marines or Coast Guard.

Certified Service Disabled Veteran Owned Small Business (SDVOSB) – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a disabled veteran who served on active duty with the U.S. Army, Air Force, Navy, Marines or Coast Guard.

The term “Certified” shall mean the business is appropriately certified, licensed, verified, or validated by an organization or entity recognized by the Division of Purchasing as having the appropriate credentials to make a determination as to the status of the business.

To comply with Resolution 484-2017, prime contractors and minority, women and veteran owned businesses must enroll in the new Diverse Business Management Compliance system, <https://lexingtonky.diversitycompliance.com/>

We have compiled the list below to help you locate certified MBE, WBE and DBE certified businesses. Below is a listing of contacts for LFUCG Certified MWDBEs and Veteran-Owned Small Businesses in (<https://lexingtonky.ionwave.net>)

Business	Contact	Email Address	Phone
LFUCG	Sherita Miller	smiller@lexingtonky.gov	859-258-3323
Commerce Lexington – Minority Business Development	Tyrone Tyra	ttyra@commercelexington.com	859-226-1625
Tri-State Minority Supplier Diversity Council	Susan Marston	smarston@tsmsdc.com	502-365-9762
Small Business Development Council	Shawn Rogers UK SBDC	shawn.rogers@uky.edu	859-257-7666
Community Ventures Corporation	Phyllis Alcorn	palcorn@cvky.org	859-231-0054
KY Transportation Cabinet (KYTC)	Melvin Byne	Melvin.bynes2@ky.gov	502-564-3601
KYTC Pre-Qualification	Shella Eagle	Shella.Eagle@ky.gov	502-782-4815
Ohio River Valley Women’s Business Council (WBENC)	Sheila Mixon	smixon@orwbc.org	513-487-6537
Kentucky MWBE Certification Program	Yvette Smith, Kentucky Finance Cabinet	Yvette.Smith@ky.gov	502-564-8099
National Women Business Owner’s Council (NWBOC)	Janet Harris-Lange	janet@nwbo.org	800-675-5066
Small Business Administration	Robert Coffey	robertcoffey@sba.gov	502-582-5971
LaVoz de Kentucky	Andres Cruz	lavozekey@yahoo.com	859-621-2106
The Key News Journal	Patrice Muhammad	production@keynewsjournal.com	859-685-8488



LFUCG MWDBE PARTICIPATION FORM

Bid/RFP/Quote Reference # 77-2022

The MWDBE and/or veteran subcontractors listed have agreed to participate on this Bid/RFP/Quote. If any substitution is made or the total value of the work is changed prior to or after the job is in progress, it is understood that those substitutions must be submitted to Central Purchasing for approval immediately. **Failure to submit a completed form may cause rejection of the bid.**

MWDBE Company, Name, Address, Phone, Email	MBE WBE or DBE	Work to be Performed	Total Dollar Value of the Work	% Value of Total Contract
1.				
2.				
3.				
4.				

The undersigned company representative submits the above list of MWDBE firms to be used in accomplishing the work contained in this Bid/RFP/Quote. Any misrepresentation may result in the termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and false claims.

Worldwide Egypt
Company
7-4-22
Date

[Signature]
Company Representative
G.M.
Title



LFUCG MWDBE PARTICIPATION FORM

Bid/RFP/Quote Reference # 77-2022

The MWDBE and/or veteran subcontractors listed have agreed to participate on this Bid/RFP/Quote. If any substitution is made or the total value of the work is changed prior to or after the job is in progress, it is understood that those substitutions must be submitted to Central Purchasing for approval immediately. **Failure to submit a completed form may cause rejection of the bid.**

MWDBE Company, Name, Address, Phone, Email	MBE WBE or DBE	Work to be Performed	Total Dollar Value of the Work	% Value of Total Contract
1.				
2.				
3.				
4.				

The undersigned company representative submits the above list of MWDBE firms to be used in accomplishing the work contained in this Bid/RFP/Quote. Any misrepresentation may result in the termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and false claims.

Worldwide Export
 Company
7-6-22
 Date

[Signature]
 Company Representative
G.M.
 Title



LEXINGTON

LFUCG MWDBE SUBSTITUTION FORM

Bid/RFP/Quote Reference # 77-2022

The substituted MWDBE and/or veteran subcontractors listed below have agreed to participate on this Bid/RFP/Quote. These substitutions were made prior to or after the job was in progress. These substitutions were made for reasons stated below and are now being submitted to Central Purchasing for approval. By the authorized signature of a representative of our company, we understand that this information will be entered into our file for this project. **Failure to submit this form may cause rejection of the bid.**

SUBSTITUTED MWDBE Company Name, Address, Phone, Email	MWDBE Formally Contracted/ Name, Address, Phone, Email	Work to Be Performed	Reason for the Substitution	Total Dollar Value of the Work	% Value of Total Contract
1.					
2.					
3.					
4.					

The undersigned acknowledges that any misrepresentation may result in termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and false claims.

Worldwide Egypt
Company

7-6-22
Date

[Signature]
Company Representative

G.M.
Title



LEXINGTON

MWDBE QUOTE SUMMARY FORM

Bid/RFP/Quote Reference # 77-2022

The undersigned acknowledges that the minority and/or veteran subcontractors listed on this form did submit a quote to participate on this project. Failure to submit this form may cause rejection of the bid.

Company Name <u>Worldwide Egypt</u>	Contact Person <u>Jim Dotson</u>
Address/Phone/Email. <u>943 Aquinas Blvd. Lexington KY 40511</u>	Bid Package / Bid Date <u>77-2022 7-19-22</u>

MWDBE Company Address	Contact Person	Contact Information (work phone, Email, cell)	Date Contacted	Services to be performed	Method of Communication (email, phone meeting, ad, event etc)	Total dollars \$\$ Do Not Leave Blank (Attach Documentation)	MBE * AA HA AS NA Female	Veteran

(MBE designation / AA=African American / HA= Hispanic American/AS = Asian American/Pacific Islander/ NA= Native American)

The undersigned acknowledges that all information is accurate. Any misrepresentation may result in termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and claims.

Worldwide Egypt
 Company
7-6-22
 Date

[Signature]
 Company Representative
G.M.
 Title



LEXINGTON

LFUCG SUBCONTRACTOR MONTHLY PAYMENT REPORT

The LFUCG has a 10% goal plan adopted by city council to increase the participation of minority and women owned businesses in the procurement process. The LFUCG also has a 3% goal plan adopted by cited council to increase the participation of veteran owned businesses in the procurement process. In order to measure that goal LFUCG will track spending with MWDBE and Veteran contractors on a monthly basis. By the signature below of an authorized company representative, you certify that the information is correct, and that each of the representations set forth below is true. Any misrepresentation may result in termination of the contract and/or prosecution under applicable Federal and State laws concerning false statements and false claims. Please submit this form monthly to the Division of Central Purchasing/ 200 East Main Street / Room 338 / Lexington, KY 40507.

Bid/RFP/Quote # 77-2022
 Total Contract Amount Awarded to Prime Contractor for this Project 100%

Project Name/ Contract #	Work Period/ From: _____ To: _____
Company Name:	Address:
Federal Tax ID:	Contact Person:

Subcontractor Vendor ID (name, address, phone, email)	Description of Work	Total Subcontract Amount	% of Total Contract Awarded to Prime for this Project	Total Amount Paid for this Period	Purchase Order number for subcontractor work (please attach PO)	Scheduled Project Start Date	Scheduled Project End Date

By the signature below of an authorized company representative, you certify that the information is correct, and that each of the representations set forth below is true. Any misrepresentations may result in the termination of the contract and/or prosecution under applicable Federal and State laws concerning false statements and false claims.

Worldwide Egypt
 Company
7-6-22
 Date

[Signature]
 Company Representative
G.M.
 Title

LFUCG STATEMENT OF GOOD FAITH EFFORTS

Bid/RFP/Quote # 77-2022

By the signature below of an authorized company representative, we certify that we have utilized the following Good Faith Efforts to obtain the maximum participation by MWDBE and Veteran-Owned business enterprises on the project and can supply the appropriate documentation.

_____ Advertised opportunities to participate in the contract in at least two (2) publications of general circulation media; trade and professional association publications; small and minority business or trade publications; and publications or trades targeting minority, women and disadvantaged businesses not less than fifteen (15) days prior to the deadline for submission of bids to allow MWDBE firms and Veteran-Owned businesses to participate.

_____ Included documentation of advertising in the above publications with the bidders good faith efforts package

_____ Attended LFUCG Central Purchasing Economic Inclusion Outreach event

_____ Attended pre-bid meetings that were scheduled by LFUCG to inform MWDBEs and/or Veteran-Owned Businesses of subcontracting opportunities

_____ Sponsored Economic Inclusion event to provide networking opportunities for prime contractors and MWDBE firms and Veteran-Owned businesses

_____ Requested a list of MWDBE and/or Veteran subcontractors or suppliers from LFUCG and showed evidence of contacting the companies on the list(s).

_____ Contacted organizations that work with MWDBE companies for assistance in finding certified MWBDE firms and Veteran-Owned businesses to work on this project. Those contacted and their responses should be a part of the bidder's good faith efforts documentation.

_____ Sent written notices, by certified mail, email or facsimile, to qualified, certified MWDBEs soliciting their participation in the contract not less than seven (7) days prior to the deadline for submission of bids to allow them to participate effectively.

_____ Followed up initial solicitations by contacting MWDBEs and Veteran-Owned businesses to determine their level of interest.

_____ Provided the interested MWBDE firm and/or Veteran-Owned business with adequate and timely information about the plans, specifications, and requirements of the contract.

_____ Selected portions of the work to be performed by MWDBE firms and/or Veteran-Owned businesses in order to increase the likelihood of meeting the contract goals. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate MWDBE and Veteran participation, even when the prime contractor may otherwise perform these work items with its own workforce

_____ Negotiated in good faith with interested MWDBE firms and Veteran-Owned businesses not rejecting them as unqualified without sound reasons based on a thorough investigation of their capabilities. Any rejection should be so noted in writing with a description as to why an agreement could not be reached.

_____ Included documentation of quotations received from interested MWDBE firms and Veteran-Owned businesses which were not used due to uncompetitive pricing or were rejected as unacceptable and/or copies of responses from firms indicating that they would not be submitting a bid.

_____ Bidder has to submit sound reasons why the quotations were considered unacceptable. The fact that the bidder has the ability and/or desire to perform the contract work with its own forces will not be considered a sound reason for rejecting a MWDBE and/or Veteran-Owned business's quote. Nothing in this provision shall be construed to require the bidder to accept unreasonable quotes in order to satisfy MWDBE and Veteran goals.

_____ Made an effort to offer assistance to or refer interested MWDBE firms and Veteran-Owned businesses to obtain the necessary equipment, supplies, materials, insurance and/or bonding to satisfy the work requirements of the bid proposal

_____ Made efforts to expand the search for MWBE firms and Veteran-Owned businesses beyond the usual geographic boundaries.

_____ Other--any other evidence that the bidder submits which may show that the bidder has made reasonable good faith efforts to include MWDBE and Veteran participation.

NOTE: Failure to submit any of the documentation requested in this section may be cause for rejection of bid. Bidders may include any other documentation deemed relevant to this requirement which is subject to approval by the MBE Liaison. Documentation of Good Faith Efforts must be submitted with the Bid, if the participation Goal is not met.

The undersigned acknowledges that all information is accurate. Any misrepresentations may result in termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and claims.

Worldwide Egypt
Company 7-6-22

Date

[Signature]
Company Representative

Title

AMENDMENT 1 —
CERTIFICATION OF COMPLIANCE FOR AMERICAN RESCUE PLAN ACT EXPENDITURES

The Lexington-Fayette Urban County Government (“LFUCG”) may classify the subject matter of this bid as an expenditure under the American Rescue Plan Act of 2021. Expenditures under the American Rescue Plan Act of 2021 require evidence of the contractor’s compliance with Federal law. Therefore, by the signature below of an authorized company representative, you certify that the information below is understood, agreed, and correct. Any misrepresentations may result in the termination of the contract and/or prosecution under applicable Federal and State laws concerning false statements and false claims.

The bidder agrees and understands that in addition to all conditions stated within the attached bid documents, the following conditions will also apply to any Agreement entered between bidder and LFUCG, if LFUCG classifies the subject matter of this bid as an expenditure under the American Rescue Plan Act. The bidder further certifies that it can and will comply with these conditions, if this bid is accepted and an Agreement is executed:

1. Any Agreement executed as a result of acceptance of this bid may be governed in accordance with 2 CFR Part 200 and all other applicable Federal law and regulations and guidance issued by the U.S. Department of the Treasury.
2. Pursuant to 24 CFR 85.43, any Agreement executed as a result of acceptance of this bid can be terminated if the contractor fails to comply with any term of the award. This Agreement may be terminated for convenience in accordance with 24 CFR 85.44 upon written notice by LFUCG. Either party may terminate this Agreement with thirty (30) days written notice to the other party, in which case the Agreement shall terminate on the thirtieth day. In the event of termination, the contractor shall be entitled to that portion of total compensation due under this Agreement as the services rendered bears to the services required. Either party may terminate this Agreement for good cause shown with forty-five (45) days written notice, which shall explain the party’s cause for the termination. If the parties do not reach a settlement before the end of the 45 days, then the Agreement shall terminate on the forty-fifth day.
3. The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:
 - (1) Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
 - (2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
 - (3) The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.

- (4) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (5) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (6) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (7) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part, and the contractor may be declared ineligible for further government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (8) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance.

Provided, however, that in the event a contractor becomes involved in or is threatened with litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

4. If fulfillment of the contract requires the contractor to employ mechanic's or laborers, the contractor further agrees that it can and will comply with the following:

- (1) Overtime requirements: No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such a workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such a workweek.
- (2) Violation: liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory) for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this section.
- (3) Withholding for unpaid wages and liquidated damages. LFUCG shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other federal contract with the same prime contractor, or any other federally-assisted contract

subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2) of this section.

(4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower-tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower-tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this section.

5. The contractor shall comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.

6. The contractor shall report each violation to LFUCG and understands and agrees that LFUCG will, in turn, report each violation as required to assure notification to the Treasury Department and the appropriate Environmental Protection Agency Regional Office.

7. The contractor shall include these requirements in numerical paragraphs 5 and 6 in each subcontract exceeding \$100,000 financed in whole or in part with American Rescue Plan Act funding.

8. The contractor shall comply with all applicable standards, orders, or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.

9. The contractor shall report each violation to LFUCG and understands and agrees that LFUCG will, in turn, report each violation as required to assure notification to the Treasury Department and the appropriate Environmental Protection Agency Regional Office.

10. The contractor shall include these requirements in numerical paragraphs 8 and 9 in each subcontract exceeding \$100,000 financed in whole or in part with American Rescue Plan Act funds.

11. The contractor shall comply with all applicable standards, orders, or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.

12. The contractor shall report each violation to LFUCG and understands and agrees that LFUCG will, in turn, report each violation as required to assure notification to the Treasury Department and the appropriate Environmental Protection Agency regional office.

13. The contractor shall include these requirements in numerical paragraphs 11 and 12 in each subcontract exceeding \$100,000 financed in whole or in part with American Rescue Plan Act funds.

14. The contractor shall include this language in any subcontract it executes to fulfill the terms of this bid: "the subgrantee, contractor, subcontractor, successor, transferee, and assignee shall comply with Title VI of the Civil Rights Act of 1964, which prohibits recipients of federal financial assistance from excluding from a program or activity, denying benefits of, or otherwise discriminating against a person on the basis of race, color, or national origin (42 U.S.C. § 2000d et seq.), as implemented by the Department of the Treasury's Title VI regulations, 31 CFR Part 22, which are herein incorporated by reference and made a part of this contract (or agreement). Title VI also includes protection to persons with 'Limited English Proficiency' in any program or activity receiving federal financial

assistance, 42 U.S.C. § 2000d et seq., as implemented by the Department of the Treasury's Title VI regulations, 31 CFR Part 22, and herein incorporated by reference and made a part of this contract or agreement."

15. Contractors who apply or bid for an award of \$100,000 or more shall file the required certification that it will not and has not used federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency. Each tier certifies to the tier above that it will not and has not used federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-federal funds that takes place in connection with obtaining any federal award. Such disclosures are forwarded from tier to tier, up to the recipient. The required certification is included here:

- a. The undersigned certifies, to the best of his or her knowledge and belief, that:
 - (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
 - (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
 - (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.
- b. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.



Signature

7-6-22

Date

1.0 SCOPE OF BID

- 1.1 This specification describes the minimum requirements for a low entry cab & chassis truck with an automated side loading high compaction, full eject, refuse collection body.

2.0 REQUIREMENTS

- 2.1 Engine and Drivetrain
- 2.2 Engine: Cummins CNG engine displacement shall not be less than 543 cu in. and specifically designed to operate on compressed natural gas (CNG). Engine shall be rated at minimum 320 horsepower and minimum 1000 lb-ft. of torque. (Cummins offers 2 (two) engines that meet this criteria ISLG 9 liter and the ISX12G 12 liter). Engine manufacturer's warranty shall cover all internally lubricated components, gaskets, seals, fuel system parts, and electronic engine management components for a period of not less than 5 years, 150,000 miles, or 4,500 hours whichever occurs first. Complete description of engine warranty shall be provided in bid package.
- 2.3 Starting: Engine starter shall be 12 volt with overcrank protection.
- 2.4 Batteries: Three (3) 12-volt, threaded post, absorbed glass mat (AGM) batteries providing the maximum available cold cranking amps (CCA) at 0° F. Jump start terminals shall be provided in a convenient location outside the battery enclosure. Battery enclosure shall include all available options to minimize corrosive damage to enclosure. A master battery disconnect shall be located on the outside of the battery enclosure with a pilot light indication of when the truck is energized.
- 2.5 Charging: Engine alternator shall have a rated output of not less than 200 amps.
- 2.6 Air Cleaner: Engine shall be equipped with a dry type air filter system with restriction indicator.
- 2.7 Cooling: Cooling system shall have external spin-on type coolant filter. Coolant shall be all-weather, extended life, providing antifreeze protection to -30° F. All coolant hoses shall be silicone rubber with constant tension hose clamps designed for use with silicone hose.
- 2.8 Engine Heater: Engine shall be equipped with 110-120 volt, 1500 watt immersion type pre heater. Engine heater receptacle shall be flush mounted on driver's (left) side of cab easily visible by person entering cab.
- 2.9 Engine Protection: Engine management system shall provide warning, and shutdown for conditions such as low engine oil pressure, high engine oil temperature, high coolant temperature, and low coolant level.
- 2.10 Exhaust: Unit shall have vertical exhaust system with chrome plated rain-proof stack.
- 2.11 Transmission: Allison model 4500-RDS, six forward speeds with all features required by body manufacturer. Transmission shall be provided with Allison Extended Transmission Coverage (ETC) providing a total warranty period of five (5) years (ETC plus standard warranty period). Transmission shall be filled with Allison TranSynd™ transmission fluid prior to delivery.

3.0 Chassis

- 3.1 Frame: Each frame rail shall have a RBM rating of not less than 3,000,000 in.-lb. Frame shall have two front tow eyes installed. Front bumper shall be painted steel (black).
- 3.2 Wheel Base: As determined by body manufacturer.
- 3.3 Front Axle & Suspension: Front axle shall have a rated capacity of not less than 20,000 lbs. Front suspension and related components shall have a rated capacity of not less than 23,000 lbs. Front suspension shall include single overload cushions and shock absorbers.
- 3.4 Rear Axle & Suspension: Tandem rear axles and suspension shall have a rated capacity of not less than 46,000 lbs. Air bag type suspension will not be considered.
- 3.5 Dual Steering: Hydraulic power assisted, with power steering oil cooler.
- 3.6 Brakes: Front and rear brake systems shall be drum brake Meritor Q Plus heavy duty Front shall be 16.5" X 7" and rear shall be 16.5" X 8". Brake hoses shall be wire braid type.
- 3.7 Air Dryer and Tanks: Brake system shall be equipped with a Bendix desiccant type air dryer. Air reservoirs shall be drained from a single point. Air brake system shall include a Schrader valve fill port for charging from an external compressed air source. Air tanks shall be painted aluminum.
- 3.8 Tires & Wheels: Front wheels- 22.5" X 12.25" pilot mount steel disc. Front tires- 425/65R-22.5 load range L, Michelin XZY 3. Rear wheels- 22.5" X 8.25" pilot mount steel disc. Rear tires- Goodyear 12R22.5 G282 load range H. All wheels shall be furnished with a gloss black powder coat finish.

4.0 Cab and Fixtures

- 4.1 Cab: Shall be dual steer, with both left and right sit down seat assemblies, tilt type cab over engine design. Front wheel openings shall have rubber flares installed. Extended rain gutters shall be installed over doors. Cab tilt pump shall include air assist. Cab step into cab shall be sixteen (16) inches from ground level.
- 4.2 Cab Fixtures: Driver's seats shall be air suspended. All seating positions shall be equipped with a high visibility seat belt. Cab shall be equipped with an automotive-type integrated air conditioner/heater/defroster with variable speed fan, and an AM/FM radio with mute-in-reverse feature.
- 4.3 Instruments: Cab shall include instrumentation for driver monitoring of coolant temperature, engine oil pressure, air pressure, fuel level (pressure), battery voltage, vehicle speed (MPH), engine speed (RPM), transmission oil temperature, alternator output (amps), miles traveled, and engine hours. Warning lights shall be provided for low air pressure, low engine oil pressure, high coolant temperature, differential lock, and parking brake application.
- 4.4 Backup Alarm: Vehicle shall have an electronic backup alarm device installed.

- 4.5 Mirrors: Heated tri-plane mirrors with two convex sections each and power remote controlled flat plane in the center.
- 4.6 Horns: Dual electric horns. Single air horn mounted on cab bottom.
- 4.7 Fuel Tank: Diesel gallon equivalent (DGE) of ninety (90) gallons. (see section 12.1)
- 4.8 Paint: Frame shall be gloss black. Cab shall be finished with blue DuPont Imron Elite #44426. Bottom of cab shall be finished and undercoated.
- 4.9 Lighting: All cab lighting shall be LED type. Clearance lamps shall be installed with limb guards.
- 4.10 Auxiliary Switches: Cab and chassis truck manufacturer shall install auxiliary switches in-cab as required by body manufacturer.
- 4.11 Other Equipment: Cab and chassis truck shall retain all standard equipment unless specified or replaced by optional equipment.

5.0 Power Take-Off

- 5.1 Cab & chassis shall be designed to accept front mounting of a crankshaft driven hydraulic pump. Design shall allow PTO operation when cab is in a tilted position. Power take off controls shall be inside cab mounted, within drivers reach.

6.0 Body Construction

- 6.1 Payload Capacity: Net usable capacity shall be not less than 28 cubic yards, excluding the hopper and inclusive of the CNG tailgate. The structural integrity of the body shall allow high density loading of up to 1,000 pounds per cubic yard of normal refuse.
- 6.2 Body Dimensions: Inside height shall be maximum 82 inches, outside height maximum 98 inches above chassis rails, exclusive of body risers. Inside width shall be maximum 91 inches, outside width shall be maximum 96 inches.
- 6.3 Body Floor: Body floor shall be constructed of minimum ¼" AR400 abrasion resisting steel plate having a yield strength of not less than 145,000 PSI. and a tensile strength of not less than 184,000 PSI. Floor shall be flat throughout, troughs or valleys are not acceptable. Two (2) "V" type longitudinals formed of 7 gauge 80,000 PSI yield steel, internally gusseted, shall be provided for the full length of the body. Longitudinals shall be 9.6 inches high X 11 inches wide at the floor and 3.3 inches wide at the truck frame. Cross members shall be 3 inch X 6 inch X 10 gauge, 80,000 PSI yield steel on 18 inch centers. All body floor members shall be continuous weld. The body shall be undercoated to provide protection to the underside of the refuse body.
- 6.4 Body Sidewalls: Body sides shall be minimum 8 gauge abrasion resisting curved steel plate having a yield strength of not less than 80,000 PSI welded to a roof crown rail and to the floor skirt rail. Rear mainframe body side bolsters shall be a minimum of 3 inch X 20 inch at the mid span section and 5 inch X 20 inch at the major upper and lower connecting points of the mainframe. The bolsters shall

be contour shaped to the sidewall and formed from minimum 7 gauge 80,000 PSI yield steel. The reinforcement bolsters shall be fully welded to the curved body side sheets.

- 6.5 Body Roof: Roof shall be constructed of minimum 8 gauge, abrasion resisting curved steel sheet having a yield strength of not less than 80,000 PSI. fully welded to a full length 8 gauge inner and 11 gauge outer roof crown rail to contain and dissipate forces equally through the body structure. Front and rear lateral roof bow shall be 2" X 8" X ¼" A500, 46,000 PSI. yield steel. Seams shall be fully welded.
- 6.6 Tailgate: Tailgate shall be bustle type, constructed of minimum 10 gauge 100,000 PSI yield steel, hinged at top of body. Raising, lowering, and latching of tailgate shall be done hydraulically. Use of manual screw clamps or turnbuckles to secure tailgate will not be accepted. Tailgate opening shall include a rubber seal to prevent liquid seepage. Seal shall extend minimum fifty-six (56) inches up each side and shall be installed on the tailgate. Tailgate hinge points shall be structurally connected to boxed rear body posts such that a continuous load path is established between the tailgate hinges and the main structural elements of the body. Tailgate shall be raised by two (2) 3 inch ID. double-acting hydraulic cylinders. An in-cab console mounted LED light and audible alarm shall be provided to indicate when the tailgate is not fully closed and locked. There shall be installed in truck cab an audible and red LED indicator light which will alert driver that tailgate is in the up position. All indicator lights shall be labeled.
- 6.7 Hopper: Hopper shall be of flat floor and straight vertical sidewalls, and designed to properly handle thirty (30) gallon through three hundred (300) gallon automated side loader carts. Hopper shall have a minimum capacity of 5.0 cubic yards. Hopper shall be 80 inches wide X 75 inches high streetside and 66 inches high including rubber flap curbside. Hopper length shall be 69.5 inches. Hopper floor shall be constructed ¼" AR400 abrasion resistant steel 145,000 PSI yield strength. Hopper side walls shall be 3/16" AR400 abrasion resistant steel 145,000 PSI yield strength. A hopper sump shall be provided in forward floor area of the hopper. Sump shall have a 40 gallon minimum capacity and have dual clean-out doors. Cleanout tool shall be provided.
- 6.8 Access Opening: The body shall have an opening, with door large enough to provide entry into the hopper body streetside. An interlock shall be provided to instantly stop all hydraulic operations if the access door is opened. An OSHA Standard approved stow-away step arrangement shall be provided for access to the door from ground level.
- 6.9 Rear Guard: The body shall include a bolt-on rear under ride guard as standard equipment to meet Federal Motor Carrier Safety Regulation (49 CFR 393.86).

7.0 Packing/Ejection Mechanism

- 7.1 Packing Mechanism: The packing mechanism shall consist of two (2) double acting multi-stage hydraulic cylinders with chrome rods and spherical bearings on both ends, activating the packing panel, automatically sweeping the hopper and returning upon activation. Unit shall have the capability to repeatedly cycle while on the run. Maximum cycle time shall be fourteen (14) seconds.
- 7.2 Packing Panel: All packing panel face material shall be constructed of minimum ¼" thick steel plate having a yield strength of not less than 80,000 PSI and be abrasion resistant. A spill shield shall be constructed from 11 gauge 50,000 PSI yield steel and shall be affixed to the top of the packing

panel. Remainder of panel assembly and spill shield shall be reinforced and constructed of materials suitable to withstand all compaction forces.

7.3 Packing Cylinders: Packing cylinders shall be capable of compacting at a minimum of 83,000 pounds of force. The packing mechanism shall be capable of extending to the rearmost end of the body, past full pack position, to provide off-loading function when the tailgate is raised. Dumping type body units are not acceptable.

7.4 Packing Performance:

7.5 Cycle time: Maximum time for packing mechanism to clear hopper, pack and return to forward position. Maximum 14 seconds.

Cycle time in seconds _____

7.6 Compaction: Indicate the maximum pounds of compaction force provided by the packing cylinders. Minimum 83,000 lbs.

Pounds of force _____

8.0 Lifting Mechanism

8.1 Lifting Mechanism: The lift base shall support the lift arm, the dump arm, the level pivot, the level link, the pivot link, and the reach link. The lift base shall rest atop the chassis frame rails. Lift mechanisms mounted alongside the chassis frame will not be accepted. All components of lift shall be accessible without lifting body in any way. NO EXCEPTIONS. The lift base shall consist of a ¾" X 16 inch X 61 inch 50,000 PSI yield surface plate for chassis frame mounting. Lift arm shall be mounted on right side of vehicle. Lift reach shall be 9 feet with a load capacity of 800 pounds.

8.2 The lift arm shall consist of a 4 ½ inch X 9 ½ inch structure with a 4 inch X 3 inch structural tube to serve as support for the dump arm.

8.3 The dump arm shall consist of a 4 inch X 3 inch structural tube that will support the appropriate grabbers.

8.4 The lifting mechanism shall be capable of lifting containers ranging from 30-300 gallons and shall be capable of extending, grabbing, raising, dumping, and returning a container from any position without the need to retract the lift arm and shall perform the lift cycle functions maximum eight (8) seconds at engine idle. Lifting mechanism shall incorporate a self-leveling feature to keep the container in a level position throughout the full motion of the outer boom.

8.5 The lift shall be powered by three (3) hydraulic cylinders with cushions at each end of the stroke. The raise and reach cylinders shall have hardened and chrome plated rods. Control valves shall be direct acting, air actuated.

8.6 Cycle Time: Maximum time for lifting, mechanism to raise, dump, lower, and disengage container at maximum reach. Maximum: 8 seconds at engine idle.

Cycle time in seconds _____

- 8.7 A LED light and audible alarm shall be installed within control panel to indicate when the lift is not fully stowed. Indicator light shall be labeled.

9.0 Controls

- 9.1 Lifting controls: The lift controls shall be a joystick operated with a combination of electric over air over hydraulic and air over hydraulic and located in a convenient location in the cab. The reach and lift shall be controlled by appropriate movement of the joystick. The grabber functions shall be controlled by thumb switches on the upper portion of the joystick.
- 9.2 Solid Waste division will have final determination where joystick/controls will be located.**
- 9.3 The packer button controls shall be electrical push buttons located in the cab convenient to the operator. Separate push buttons shall be provided for "Pack and Retract" to provide complete packer panel movement control in either direction. Pushing the "Pack" button shall automatically extend and retract the packer panel for a complete cycle. Selectable auto-dump and auto-stow shall be provided.
- 9.4 An emergency on/off button shall be provided to stop packer panel movement during the extent or retract cycles.
- 9.5 Tailgate raise and tailgate lock controls shall be individually controlled by pneumatic toggle switches inside the cab.

10.0 Hydraulic System

- 10.1 Hydraulic Pump: Front mounted hydraulic pump shall be a Denison tandem vane pump with electronic over-speed control. The system shall have a maximum 2500 PSI working pressure. The lift operation shall be limited to 18 GPM @ 800 RPM. The pump shall combine flow to 44 GPM @ 1200 RPM to operate the packer panel. Pump shall have the ability to pack-on-the-run. Pump driveshaft shall be provided with suitable guard. Hydraulic pump shall be warranted by its manufacturer for a period of not less than two (2) years. No clutches shall be used in PTO/pump system. Pump shall be mounted to allow ease of maintenance and removal, removal of bumper to gain access to pump is not acceptable. Hydraulic pump shall be primarily constructed of cast iron and/or steel.
- 10.2 Hydraulic Tank: Tank shall be of sufficient capacity to allow repeated cycling without overheating hydraulic oil. Tank shall be provided with an internally mounted suction screen with service access, return line filter with spin-on element, electrical by-pass indicator, shut-off ball valve, and screened fill port. All tank venting shall be filtered. Tank shall have a temperature gauge and an oil sight gauge with a minimum length of 5 inches. A pressure differential monitor with "CHANGE FILTER" light shall be installed in cab. Tank shall have an outer black powder coated finish.
- 10.3 Hydraulic Plumbing: Welded steel tubing shall be used wherever possible secured by cushioned clamps. All hydraulic hose shall meet or exceed SAE 100R2 Type AT requirements and shall be

protected by protective nylon sock. Excluding main suction hose, no hose clamp connections will be accepted.

11.0 Miscellaneous

- 11.1 The frame rails of the truck shall not be drilled, cut, or altered in any way other than that approved by the chassis manufacturer.
- 11.2 Lighting: All lighting required by the Federal Motor Vehicle Safety Standard #108, shall be installed. Headlights shall be LED. All rear facing stop, turn, or tail lamps shall be flush mounted, sealed LED units. All clearance lamps shall be grommet mounted sealed LED units. License plate lamps and backup lamps shall be sealed LED units. Sealed LED lamps shall be used to illuminate the arm and inside hopper area, both controlled by switches in truck cab.
- 11.3 Strobe Lights: Two (2) rear facing and two (2) front facing, four inch (4") round, grommet mounted, amber strobe lights shall be mounted in a manner consistent with other front and rear facing lights. All strobe lights shall be grommet-mounted, amber in color, self-contained LED units. Strobe box systems will not be accepted.
- 11.4 Wiring: Any circuit added to the truck requiring fuse protection shall be wired through the truck's fuse panel. All connections to a component shall be made with a molded plug or otherwise environmentally sealed connector. Individual wires shall be terminated with a terminal which is crimped, soldered, and covered with heat shrink tubing. Splices should be avoided. If a spliced wire cannot be avoided, the splice shall be soldered and covered with heat shrink tubing. Under no circumstances will the use of the following items or methods be accepted: crimp-type butt connectors, Scotchlok™'s, solderless terminals, electrical tape, wire nuts, in-line fuses. All wiring shall be encased in protective flexible loom. All switches not manually operated shall be proximity in type. Mechanical switches are not allowed.
- 11.5 Painting/Coating: Entire body shall be thoroughly cleaned of dirt, oil, grease, and welding slag prior to painting or coating. No electrical wire, hydraulic hose, hose end fitting or other hydraulic fittings shall be painted or coated. Body to be metallic gray (DuPont Imron Elite 44400U). Bid package shall include thorough description of painting or coating process and any warranty provided.
- 11.6 Safety Equipment: A 20 lb. fully rechargeable, A-B-C fire extinguisher shall be mounted on the outside of the driver's side of packer body in a convenient location. A set of reflecting safety triangles shall be provided.
- 11.7 Back-Up Vision System: A closed circuit rear vision system (Pro Vision) utilizing four (4) color cameras and a color multi-view LCD monitor positioned for convenient viewing by driver shall be installed. System shall automatically activate when truck is in reverse gear or may be manually activated. Camera shall be protected by a stainless steel cage. (1st) camera shall provide a view of the area immediately behind the center of the truck, (2nd) camera shall provide a view of the hopper, (3rd) camera shall provide a view of the arm, (4th) camera shall provide a view down the left side of the vehicle. Vision system components shall be provided with a five (5) year warranty. **Pro-Vision is the only system accepted.**

- 11.8 Collision Avoidance System: There shall be installed a (VDI) Voice Distance Indication reversing/sonar system mounted in rear of vehicle, (Collision Avoidance Systems part number CAS-4HW), with beeping and voice warning indicating potential obstacles are at the rear of the vehicle, system shall include three (3) acoustic, flush mounted sensors, with detecting angles of horizontal approximately 30 degrees, vertical approximately 50 degrees, detection range of 24 inches to 12 feet, microprocessor, and speaker mounted in cab. System shall carry minimum 1 year warranty.
- 11.9 Finished Overall Height: Bid package must state the overall finished height of the unit. Bid packages failing to state finished height cannot be evaluated.
- 11.10 Cylinder Attachment: Hydraulic cylinder attachment pins shall be drilled and taped such that pulling equipment can be used to facilitate their removal. Pins retained by removable saddles are exempt from this requirement.
- 11.11 AutoLube System: A Lincoln Quicklube® On Board Grease System shall be installed to service all critical points of lubrication on the refuse body. All hoses and components shall be installed in a manner where there will be no inference with body or chassis components or operations.
- 11.12 Tool box: A weatherproof stainless steel tool box (Bawer TU826500) shall be installed on rear of unit.
- 11.13 Unit Graphics: Graphics designed and furnished by the LFUCG Waste Management shall be installed on body.
- 11.14 Mud Flaps: Mud flaps shall be installed in front of front axle and behind rear axle.

12.0 Compressed Natural Gas

- 12.1 Unit shall be provided with a compressed natural gas fuel system with a capacity of not less than the equivalent of ninety (90) diesel gallons (DGE) mounted in tailgate. **Tailgate fuel tank(s)** shall be appropriately protected from damage caused by vehicle collision or other calamity. System shall include both a fast and slow fill port conveniently located on drivers side, a maintenance defueling port, and an interlock to prevent engine start unless fill hoses have been disconnected. Additional fast and slow fill fueling ports shall be provided in the front bumper. Pressure sending unit capable of driving the chassis OEM fuel gauge, shall be installed. Routing of fuel lines to fuel storage cylinders shall not be exposed on side of body, but must be routed through and protected by steel raceways built into the structure of the body. Non-tailgated mounted and/or split systems are not acceptable.
- 12.2 Methane Detection: Each unit shall have a dual zone methane detection system installed with sensors located in the engine compartment and inside the truck cab.

13.0 NOTES

13.1 Testing and Inspection

- 13.2 Each unit furnished shall be physically inspected by LFUCG personnel prior to acceptance. Appropriate measures will be taken to insure compliance with specifications; unit(s) will be checked for completeness and functionality. All equipment, standard and specified, shall be installed and tested prior to delivery. Failure to meet any aspect of this specification for which an exception was not taken may be grounds for refusal of delivery and/or payment.

13.2 Delivery

- 13.3 Completed vehicle(s) shall be delivered and titled to LFUCG Division of Fleet Services facility located at 669 Byrd Thurman Drive, Lexington, Kentucky. Units shall be ready to work upon delivery.

13.4 Literature

- 13.5 Manufacturer's literature which shall include complete specifications and warranty shall be included with bid and becomes integral part of bid. All literature submitted shall be original printed material- no photocopied material. Any modifications which may be necessary to meet specifications must be listed in writing and submitted as integral part of bid.

13.6 Method of Award

- 13.7 A price contract shall be awarded to the responsive and responsible bidder who has demonstrated the capability to best comply with the requirements contained herein at the lowest unit price. The price contract price shall remain in effect for one (1) year after date of award with an option to renew for one (1) additional year if agreed by both parties. Adequately documented justification must accompany any request for price adjustment during the contract term to be considered. The issuance of a price contract does not obligate the LFUCG for any purchases or quantities.

14.0 General

- 14.1 All equipment furnished shall be new and unused, current model production.
- 14.2 Training: Manufacturer's representative shall spend a minimum of two (2) days, instructing LFUCG mechanics and operators in the maintenance and operation of the equipment provided. One (1) day for LFUCG mechanics and one (1) day for operators as needed. Training shall include the cab & chassis, packer body and the CNG fuel system.
- 14.3 Successful bidder shall provide one (1) repair manual and one (1) parts manual with each group of units delivered. Electronic delivery or internet access to parts and service manuals is acceptable. Each unit shall be provided with a printed operator's manual. All manuals shall be original printed editions. Discs and/or manuals shall be included at time of delivery.
- 14.4 Warranty Repairs: (Applies to entire unit) If the vendor providing warranty service for any portion of unit(s) described herein whose repair facility is in excess of fifteen (15) miles from the LFUCG Fleet Services facility, at the vendor's option, warranty repairs may be performed at the vendor's location provided vendor picks up the vehicle within 24 hours of notification and returns vehicle upon completion of repairs. When vendor elects this option, all transportation expenses shall be included in the warranty coverage. In the interest of reduced downtime, the Division of Fleet Services may be designated a warranty repair shop. An in-house warranty agreement shall include reimbursement or credit for parts at 100% of their cost and labor at a rate of eighty five dollars (\$85.00) per hour. If the manufacturer publishes a time table for standard repair operations, one will be furnished and used to determine billable labor. If such a standard does not exist, vendor agrees to reimburse labor as recorded on LFUCG repair orders (actual time). Vendor shall furnish any forms the manufacturer may require for warranty return parts. LFUCG will invoice vendor for warranty repairs during the warranty period. Vendor shall agree to accept LFUCG repair orders as evidence of work performed.
- 14.5 Winning bidder shall have a service/warranty dealership within 15 miles of LFUCG Fleet Service 669 Byrd Thurman Dr. Lexington, Ky. 40510 and shall be fully certified and authorized in all aspects of the chassis service/warranty including but not limited to Allison transmission, and Cummins CNG engine, no exceptions.
- 14.6 References: Upon request, bidder shall provide a list of at least five (5) users of the exact model bid.
- 14.7 Demonstrator: LFUCG reserves the right to request a demonstrator unit of the model proposed to be tested and inspected by LFUCG personnel for a minimum of five (5) business days. Demonstrator unit must be available within ten (10) business days of request.
- 14.8 Unit(s) shall retain all standard equipment as shown in published literature unless replaced by optional equipment specified herein. Units provided under this specification shall fully comply with any and all applicable OSHA, ANSI, and FMVSS standards as well as all applicable Federal, State, and local laws, regulations, standards, ordinances, resolutions, and codes at time of delivery.
- 14.9 Tools: Any tools and or software that is needed for interfacing and/or programming engine, transmission, brakes, chassis and packer components shall be supplied and included in bid.

15.0 Addendums

15.1 **Exceptions** to any parts of these specifications shall be listed on the attached "Exception Page" with reference to the applicable paragraph number from this document.

15.2 **Warranty** page must be completed in its entirety in order to have your bid evaluated.

15.3 **Other Information** page must be completed in its entirety in order to have your bid evaluated.

15.4 Pricing:

Price for 1 complete unit:

Chassis Make and Model Mack LR Packer Body Make and Model Heil Python 28
SB 7-15-22
Chassis with 9 Liter CNG \$ 177,741.00 Packer Body \$ 239,938.00 Total \$ 417,679.00
Chassis with 12 Liter CNG \$ NA Packer Body \$ NA Total \$ NA

Price for 2 or more complete units:

Chassis Make and Model Mack LR Packer Body Make and Model Heil Python 28
Chassis with 9 Liter CNG \$ 177,741.00 Packer Body \$ 239,938.00 Total \$ 417,679.00
Chassis with 12 Liter CNG \$ NA Packet Body \$ NA Total \$ NA

EXCEPTION PAGE

Paragraph Number	Description of Exception
3.3	Front Suspension 20,000#
	some suspension on all
	LFUCG units currently running
2.8.	1000 Watt only Block
	Heater commms provides.

Warranty Description

Basic Vehicle Warranty (cab & chassis)	Length of Warranty Period (time, mileage, etc.)	Warranty Provided By:	Vendor agrees to warranty terms stated in paragraph 14.4?
	SEE Print		Yes / No
Basic Warranty (body)	Length of Warranty Period (time, mileage, etc.)	Warranty Provided By:	Vendor agrees to warranty terms stated in paragraph 14.4?
	See Print		Yes / No
Engine Warranty (paragraph 2.2)	Length of Warranty Period (time, mileage, etc.)	Warranty Provided By:	Vendor agrees to warranty terms stated in paragraph 14.4?
	SEE Print		Yes / No
Transmission Warranty (paragraph 2.11)	Length of Warranty Period (time, mileage, etc.)	Warranty Provided By:	Vendor agrees to warranty terms stated in paragraph 14.4?
	SEE Print		Yes / No
Exterior Finish Warranty (body)	Length of Warranty Period (time, mileage, etc.)	Warranty Provided By:	Vendor agrees to warranty terms stated in paragraph 14.4?
			Yes / No
Hydraulic Pump Warranty (paragraph 10.1)	Length of Warranty Period (time, mileage, etc.)	Warranty Provided By:	Vendor agrees to warranty terms stated in paragraph 14.4?
			Yes / No
Hydraulic Cylinder Warranty (body)	Length of Warranty Period (time, mileage, etc.)	Warranty Provided By:	Vendor agrees to warranty terms stated in paragraph 14.4?
			Yes / No
Back-Up Vision System Warranty (paragraph 11.7)	Length of Warranty Period (time, mileage, etc.)	Warranty Provided By:	Vendor agrees to warranty terms stated in paragraph 14.4?
			Yes / No

Other Information

Exterior Finish (paragraph 11.5)	Describe painting or coating system for the exterior surfaces of the body.

Finished Overall Height (paragraph 11.9)	Measured height from the ground to the highest point of finished unit.	The LFUCG Division of Waste Management will have final approval of finished vehicle height. Stated heights in excess of thirteen feet (13') may be cause for rejection. Any unit whose measured height upon delivery exceeds that stated herein will not be accepted.

2020 Allison Transmission Coverage Pricing Guide

RUGGED DUTY SERIES™		Standard Limited Warranty	Extended Transmission Coverage*		RUGGED DUTY SERIES™		Standard Limited Warranty	Extended Transmission Coverage*	
Model	Vocation	Years of Coverage	2 Years	4 Years	Model	Vocation	Years of Coverage	2 Years	4 Years
1000 RDS	P&D and Beverage	3	\$361	N/A	3000 RDS	P&D and Beverage	3	\$482	N/A
	Utility and Other	3	\$361	N/A		Refuse Packer	3	\$938	N/A
	Dump Trucks/Mixers	3	\$281	N/A		Utility and Other	3	\$482	N/A
	Agriculture	3	\$281	N/A		Dump Trucks/Mixers	3	\$482	\$1,020
1000 RDS xFE	P&D and Beverage	3	\$361	N/A	3000 RDS R**	Agriculture	3	\$482	N/A
	Utility and Other	3	\$361	N/A		P&D and Beverage	3	\$704	N/A
	Dump Trucks/Mixers	3	\$281	N/A		Refuse Packer	3	\$1,143	N/A
1350 RDS	Agriculture	3	\$281	N/A	3500 RDS	Utility and Other	3	\$704	N/A
	P&D and Beverage	3	\$319	N/A		Dump Trucks/Mixers	3	\$704	\$2,025
	Utility and Other	3	\$487	N/A		Agriculture	3	\$704	N/A
	Dump Trucks/Mixers	3	\$487	N/A		P&D and Beverage	3	\$487	N/A
1350 RDS xFE	Agriculture	3	\$487	N/A	3500 RDS R**	Refuse Packer	3	\$947	N/A
	P&D and Beverage	3	\$319	N/A		Utility and Other	3	\$487	N/A
	Utility and Other	3	\$487	N/A		Dump Trucks/Mixers	3	\$487	\$1,175
2100 RDS	Dump Trucks/Mixers	3	\$487	N/A	4000 RDS	Agriculture	3	\$487	N/A
	Agriculture	3	\$487	N/A		P&D and Beverage	3	\$607	N/A
	P&D and Beverage	3	\$552	\$773		Refuse Packer	3	\$1,060	N/A
	Utility and Other	3	\$552	\$773		Utility and Other	3	\$607	N/A
2100 RDS xFE	Dump Trucks/Mixers	3	\$547	\$765	4000 RDS R**	Dump Trucks/Mixers	3	\$607	\$2,153
	Agriculture	3	\$547	\$765		Agriculture	3	\$607	N/A
	P&D and Beverage	3	\$541	\$758		P&D and Beverage	3	\$877	N/A
2200RDS	Utility and Other	3	\$541	\$758	4500 RDS	Refuse Packer	3	\$1,154	N/A
	Dump Trucks/Mixers	3	\$541	\$758		Utility and Other	3	\$877	N/A
	Agriculture	3	\$541	\$758		Dump Trucks/Mixers	3	\$877	\$1,609
	P&D and Beverage	3	\$541	\$758		Agriculture	3	\$877	N/A
2200 RDS xFE	Utility and Other	3	\$541	\$758	4500 RDS R**	P&D and Beverage	3	\$1,166	N/A
	Dump Trucks/Mixers	3	\$541	\$758		Refuse Packer	3	\$1,429	N/A
	Agriculture	3	\$541	\$758		Utility and Other	3	\$1,166	N/A
2300 RDS	P&D and Beverage	3	\$555	\$777	4700 RDS	Dump Trucks/Mixers	3	\$1,166	\$2,286
	Utility and Other	3	\$555	\$777		Agriculture	3	\$1,166	N/A
	Dump Trucks/Mixers	3	\$555	\$777		P&D and Beverage	3	\$826	N/A
	Agriculture	3	\$555	\$777		Refuse Packer	3	\$1,052	N/A
2350 RDS	P&D and Beverage	3	\$549	\$769	4700 RDS R**	Utility and Other	3	\$826	N/A
	Utility and Other	3	\$549	\$769		Dump Trucks/Mixers	3	\$826	\$1,472
	Dump Trucks/Mixers	3	\$549	\$769		Agriculture	3	\$826	N/A
2350 RDS xFE	Agriculture	3	\$549	\$769	4700 RDS R**	P&D and Beverage	3	\$910	N/A
	P&D and Beverage	3	\$549	\$769		Refuse Packer	3	\$1,152	N/A
	Utility and Other	3	\$549	\$769		Utility and Other	3	\$910	N/A
	Dump Trucks/Mixers	3	\$549	\$769		Dump Trucks/Mixers	3	\$910	\$1,784
2500 RDS	Agriculture	3	\$549	\$769	4700 RDS R**	Agriculture	3	\$910	N/A
	P&D and Beverage	3	\$555	\$777		P&D and Beverage	3	N/A	N/A
	Utility and Other	3	\$549	\$769		Refuse Packer	3	\$1,532	N/A
	Dump Trucks/Mixers	3	\$549	\$769		Utility and Other	3	\$1,596	N/A
2500 RDS xFE	Agriculture	3	\$478	\$669	4700 RDS R**	Dump Trucks/Mixers	3	\$1,224	\$2,876
	P&D and Beverage	3	\$478	\$669		Agriculture	3	\$1,272	N/A
	Utility and Other	3	\$478	\$669		P&D and Beverage	3	N/A	N/A
2550 RDS	Refuse Packer	3	\$928	\$1,300	4700 RDS R**	Refuse Packer	3	\$2,171	N/A
	Utility and Other	3	\$478	\$669		Utility and Other	3	\$1,846	N/A
	Dump Trucks/Mixers	3	\$478	\$669		Dump Trucks/Mixers	3	\$1,846	\$4,375
	Agriculture	3	\$478	\$669		Agriculture	3	\$1,846	N/A
2550 RDS xFE	P&D and Beverage	3	\$549	\$769	4700 RDS R**	Refuse Packer	3	\$2,171	N/A
	Utility and Other	3	\$549	\$769		Utility and Other	3	\$1,846	N/A
	Dump Trucks/Mixers	3	\$549	\$769		Dump Trucks/Mixers	3	\$1,846	\$4,375
2550 RDS	Agriculture	3	\$478	\$669	4700 RDS R**	Agriculture	3	\$1,846	N/A
	P&D and Beverage	3	\$478	\$669		Refuse Packer	3	\$2,171	N/A
	Utility and Other	3	\$478	\$669		Utility and Other	3	\$1,846	N/A
	Dump Trucks/Mixers	3	\$478	\$669		Dump Trucks/Mixers	3	\$1,846	\$4,375
2550 RDS xFE	Agriculture	3	\$478	\$669	4700 RDS R**	Agriculture	3	\$1,846	N/A
	P&D and Beverage	3	\$549	\$769		Refuse Packer	3	\$2,171	N/A
	Utility and Other	3	\$549	\$769		Utility and Other	3	\$1,846	N/A
2550 RDS	Dump Trucks/Mixers	3	\$549	\$769	4700 RDS R**	Dump Trucks/Mixers	3	\$1,846	\$4,375
	Agriculture	3	\$549	\$769		Agriculture	3	\$1,846	N/A
	P&D and Beverage	3	\$549	\$769		Refuse Packer	3	\$2,171	N/A
	Utility and Other	3	\$549	\$769		Utility and Other	3	\$1,846	N/A
2550 RDS xFE	Dump Trucks/Mixers	3	\$549	\$769	4700 RDS R**	Dump Trucks/Mixers	3	\$1,846	\$4,375
	Agriculture	3	\$549	\$769		Agriculture	3	\$1,846	N/A
	P&D and Beverage	3	\$549	\$769		Refuse Packer	3	\$2,171	N/A

Rugged Duty applications with a 2200/2500/3000 RDS Series™ may have additional coverage. Contact your distributor for additional information.

* Extended Transmission Coverage: Available for purchase through Allison Authorized Distributors and Dealers to increase coverage

** Retarder Option

STANDARD CHASSIS WARRANTY CERTIFICATE



Mack Trucks warrants certain individual components of the new Mack truck to be free from defects in material and workmanship under normal use and service up to the periods as specified, provided all Mack Trucks' maintenance and inspection requirements are followed. See your local authorized Mack dealer for recommended maintenance and inspection procedures. All warranty periods are calculated from date in service of the vehicle. All coverage is 100% for parts and labor subject to the qualifications, limitations, and exclusions as noted.

LIMITATIONS AND EXCLUSIONS TO THIS WARRANTY APPEAR ON THE REVERSE SIDE OF THIS CERTIFICATE. THESE LIMITATIONS AND EXCLUSIONS ARE IMPORTANT AND MUST BE READ AND UNDERSTOOD.

This warranty applies to **Model Year 2021 trucks**, manufactured by Mack Trucks, operated in the United States and Canada with **EPA 17 engines**. Specific coverage is based on the application and weight class as described in the following chart:

	Standard NORMAL DUTY	Standard HEAVY DUTY	Standard SEVERE DUTY
Typical Vocations	Line / Long Haul, Short Haul, or Pickup & Delivery	Heavy Line Haul, Construction, Refuse, Fire or Rescue Service	Heavy Construction, Heavy Refuse, Off-Road, Heavy Haul, Mining, Logging, or Oil Field
Weight Class Qualifications	Vehicle must have GVWR ≤ 63,000 lbs. (≤ 28 metric tons) or GCWR ≤ 110,000 lbs. (≤ 50 mt.)	Vehicle must have GVWR ≤ 80,000 lbs. (≤ 36 mt.) or GCWR ≤ 143,000 lbs. (≤ 65 mt.)	Vehicle must have GAWR > 52,000 lbs. (> 23.5 mt.) or GVWR > 80,000 lbs. (> 36 mt.) or GCWR > 143,000 lbs. (> 65 mt.)
Basic Coverage *	12 months or 100,000 miles (160 934 km)	12 months or 100,000 miles (160 934 km)	12 months or 100,000 miles (160 934 km)
Chassis Towing	Towing/Road Service coverage is limited to 90 days or 5,000 miles (8047 km), whichever occurs first, limited to the truck (less trailer) and to a single tow per incident to the nearest authorized Mack Trucks service center. Charges in excess of \$1,000 are not covered unless Mack OneCall™ service is contacted and approves additional amounts prior to tow.		Not Applicable
Air Conditioning	Air conditioning (sealed system only) is covered for 12 months with no mileage limitation.		
Engine / Emission	Not covered under this warranty certificate. See respective engine manufacturer's warranty certificate. See paragraph 19 on reverse side.		
Transmission, Driveline, Rear Axle, Front Non-Drive Steer Axle	36 months or 350,000 miles (563 270 km) Covered Components are as follows: • Manual Transmission – Transmission assembly • Rear Axle – Differential carrier assembly & axle housing • Front Non-Drive Steer Axle – Axle beam, steering knuckle, & tie rod • Driveline – Bearings, hangers & shafts		12 months or 100,000 miles (160 934 km)
	Allison Automatic Transmissions are not covered under this warranty certificate. See paragraph 19 on reverse side.		
Mack Carrier & Axle Housing	60 months or 500,000 miles (804 672 km)	36 months or 300,000 miles (482 803 km)	12 months or 100,000 miles (160 934 km)
Mack T300 Transmission	60 months or 750,000 miles (1 207 008 km)	36 months or 400,000 miles (643 738 km)	12 months or 100,000 miles (160 934 km)
mDRIVE™ Transmission	60 months or 750,000 miles (1 207 008 km) mDRIVE™ and mDRIVE™ HD	mDRIVE™: 36 months or 250,000 miles (402 336 km); mDRIVE™ HD: 36 months with no mileage limitation	12 months or 100,000 miles (160 934 km); mDRIVE™ HD: 24 months with no mileage limitation
mDRIVE™ Clutch	36 months or 300,000 miles (482 803 km) mDRIVE™ and mDRIVE™ HD	36 months or 250,000 miles (402 336 km) mDRIVE™ and mDRIVE™ HD	mDRIVE™: 12 months or 100,000 miles (160 934 km); mDRIVE™ HD: 24 months or 250,000 miles (402 336 km)
mDRIVE™ & T300 Towing	Towing/Road Service on warrantable transmission failures is covered to 24 months or 250,000 miles (402 336 km) whichever occurs first, limited to the truck (less trailer), and to a single tow per incident to the nearest authorized Mack Trucks service center. Charges in excess of \$1,000 are not covered unless Mack OneCall™ service is contacted and approves additional amounts prior to tow.		Not Applicable
Trunnion Bracket	36 months or 300,000 miles (482 803 km) Limited to Trunnion Bracket & Spindle, Suspension Trunnion (Except Bushings)		12 months or 100,000 miles (160 934 km) (same restrictions as Normal & Heavy)
Cab Structure	60 months or 500,000 miles (804 672 km)	24 months or 200,000 miles (321 869 km)	12 months or 100,000 miles (160 934 km)
Internal Cab Corrosion	60 months or 500,000 miles (804 672 km)	60 months or 500,000 miles (804 672 km)	60 months or 500,000 miles (804 672 km)
	Covered only where metal is perforated from the inside to the outside. See paragraph 18 on the reverse side.		
Frame Rail / Crossmembers	60 months or 500,000 miles (804 672 km) AN/CXU/PI/CHU Models Only: 72 months or 750,000 miles (1 207 008 km)	36 months or 300,000 miles (482 803 km) GR/GU Model only: 60 months or 500,000 miles (804 672 km)	12 months or 100,000 miles (160 934 km)
Noise Emission	LIFE OF VEHICLE: Mack Trucks, warrants to the first purchaser of this vehicle for purposes other than resale, and to each subsequent purchaser, that this vehicle was designed, built and equipped to conform, at the time of sale to such first purchaser, with all applicable U.S. EPA noise control regulations. This warranty is not limited to any vehicle particular part, component, or system of the vehicle. Defects in the design, assembly, or any part, component or system of the vehicle, which at the time of sale to such first purchaser, caused noise emission levels to exceed Federal standards, are covered by this warranty for the life of the vehicle. EXCLUSIONS: Failures which arise as a result of tampering rather than from defects in the design, assembly, or any part, components, or system of the vehicle are not covered by this warranty.		

*Covered for 30 Days: Fluorescent Lights or Ballast, Light Bulbs, Fuses, Wiper Blades, and All Filters (oil, fuel, air, etc.).
Covered for 90 Days: Loose Fasteners, Leaking Fittings, or Loose Hose Clamps.



CENTRAL INDIANA TRUCK EQUIPMENT CORP.

2128 SOUTH HARDING STREET • PHONE (317) 639-4207
INDIANAPOLIS, INDIANA 46221 • FAX (317) 638-4544

July 14, 2022

Worldwide Equipment
945 Nandino Blvd.
Lexington, KY 40511
Attn: Jim Dotson

Bid #77-2022

We are pleased to bid the following Heil quality equipment:

One Heil DuraPack Python 28 cubic yard automated sideloader, equipped with 90 DGE CNrG tailgate (CNrG tailgate takes up roughly two cubic yards of net capacity), **as per LFUCG specifications**, F.O.B. Lexington, KY.

Bid Price: \$239,938 each

Our packet includes an exterior finish description page, an additional options available page, and specification pages 5,6, 11-14. Please include them in your bid packet.

Body height is 99" above chassis frame height. ***Please complete the Finished Overall Height requirement in paragraph 11.9 on page 15.***

Delivery of completed unit is 90-150 days after delivery of chassis of proper specifications to:

Heil Environmental
106 45th St NE
Ft. Payne, AL 35967

Above pricing does not include any applicable state or local taxes.

Sincerely,

Danny D. Vaught
Vice President

Heil Python Available Options

Heil bodies sold and serviced by:

Central Indiana Truck Equipment Corp.
2128 S. Harding St.
Indianapolis, Indiana 46221

The following options are available to be added to the Heil Python body by CITE Corp. If any of the options are desired, please add them to the original bid price per unit:

Dual High-Pressure Filters: \$2,040

Infinity Packing Cylinders- includes 5-year packer cylinder warranty: \$3,472

3/16th Hopper and Body Floor Liner: \$1,565

Fender Extension: \$827

panel. Remainder of panel assembly and spill shield shall be reinforced and constructed of materials suitable to withstand all compaction forces.

7.3 Packing Cylinders: Packing cylinders shall be capable of compacting at a minimum of 83,000 pounds of force. The packing mechanism shall be capable of extending to the rearmost end of the body, past full pack position, to provide off-loading function when the tailgate is raised. Dumping type body units are not acceptable.

7.4 Packing Performance:

7.5 Cycle time: Maximum time for packing mechanism to clear hopper, pack and return to forward position. Maximum 14 seconds.

Cycle time in seconds 14 Seconds

7.6 Compaction: Indicate the maximum pounds of compaction force provided by the packing cylinders. Minimum 83,000 lbs.

Pounds of force 83,000 lbs.

8.0 Lifting Mechanism

8.1 Lifting Mechanism: The lift base shall support the lift arm, the dump arm, the level pivot, the level link, the pivot link, and the reach link. The lift base shall rest atop the chassis frame rails. Lift mechanisms mounted alongside the chassis frame will not be accepted. All components of lift shall be accessible without lifting body in any way. NO EXCEPTIONS. The lift base shall consist of a ¼" X 16 inch X 61 inch 50,000 PSI yield surface plate for chassis frame mounting. Lift arm shall be mounted on right side of vehicle. Lift reach shall be 9 feet with a load capacity of 800 pounds.

8.2 The lift arm shall consist of a 4 ½ inch X 9 ½ inch structure with a 4 inch X 3 inch structural tube to serve as support for the dump arm.

8.3 The dump arm shall consist of a 4 inch X 3 inch structural tube that will support the appropriate grabbers.

8.4 The lifting mechanism shall be capable of lifting containers ranging from 30-300 gallons and shall be capable of extending, grabbing, raising, dumping, and returning a container from any position without the need to retract the lift arm and shall perform the lift cycle functions maximum eight (8) seconds at engine idle. Lifting mechanism shall incorporate a self-leveling feature to keep the container in a level position throughout the full motion of the outer boom.

8.5 The lift shall be powered by three (3) hydraulic cylinders with cushions at each end of the stroke. The raise and reach cylinders shall have hardened and chrome plated rods. Control valves shall be direct acting, air actuated.

8.6 Cycle Time: Maximum time for lifting, mechanism to raise, dump, lower, and disengage container at maximum reach. Maximum: 8 seconds at engine idle.

- 8.7 A LED light and audible alarm shall be installed within control panel to indicate when the lift is not fully stowed. Indicator light shall be labeled.

9.0 Controls

- 9.1 Lifting controls: The lift controls shall be a joystick operated with a combination of electric over air over hydraulic and air over hydraulic and located in a convenient location in the cab. The reach and lift shall be controlled by appropriate movement of the joystick. The grabber functions shall be controlled by thumb switches on the upper portion of the joystick.
- 9.2 Solid Waste division will have final determination where joystick/controls will be located.
- 9.3 The packer button controls shall be electrical push buttons located in the cab convenient to the operator. Separate push buttons shall be provided for "Pack and Retract" to provide complete packer panel movement control in either direction. Pushing the "Pack" button shall automatically extend and retract the packer panel for a complete cycle. Selectable auto-dump and auto-stow shall be provided.
- 9.4 An emergency on/off button shall be provided to stop packer panel movement during the extent or retract cycles.
- 9.5 Tailgate raise and tailgate lock controls shall be individually controlled by pneumatic toggle switches inside the cab.

10.0 Hydraulic System

- 10.1 Hydraulic Pump: Front mounted hydraulic pump shall be a Denison tandem vane pump with electronic over-speed control. The system shall have a maximum 2500 PSI working pressure. The lift operation shall be limited to 18 GPM @ 800 RPM. The pump shall combine flow to 44 GPM @ 1200 RPM to operate the packer panel. Pump shall have the ability to pack-on-the-run. Pump driveshaft shall be provided with suitable guard. Hydraulic pump shall be warranted by its manufacturer for a period of not less than two (2) years. No clutches shall be used in PTO/pump system. Pump shall be mounted to allow ease of maintenance and removal, removal of bumper to gain access to pump is not acceptable. Hydraulic pump shall be primarily constructed of cast iron and/or steel.
- 10.2 Hydraulic Tank: Tank shall be of sufficient capacity to allow repeated cycling without overheating hydraulic oil. Tank shall be provided with an internally mounted suction screen with service access, return line filter with spin-on element, electrical by-pass indicator, shut-off ball valve, and screened fill port. All tank venting shall be filtered. Tank shall have a temperature gauge and an oil sight gauge with a minimum length of 5 inches. A pressure differential monitor with "CHANGE FILTER" light shall be installed in cab. Tank shall have an outer black powder coated finish.
- 10.3 Hydraulic Plumbing: Welded steel tubing shall be used wherever possible secured by cushioned clamps. All hydraulic hose shall meet or exceed SAE 100R2 Type AT requirements and shall be

15.0 Addendums

15.1 **Exceptions** to any parts of these specifications shall be listed on the attached "Exception Page" with reference to the applicable paragraph number from this document.

15.2 **Warranty** page must be completed in its entirety in order to have your bid evaluated.

15.3 **Other Information** page must be completed in its entirety in order to have your bid evaluated.

15.4 Pricing:

Price for 1 complete unit:

Chassis Make and Model _____ Packer Body Make and Model Heil DuraPack Python

Chassis with 9 Liter CNG \$ _____ Packer Body \$ 239,938 Total \$ _____

Chassis with 12 Liter CNG \$ _____ Packer Body \$ _____ Total \$ _____

Price for 2 or more complete units:

Chassis Make and Model _____ Packer Body Make and Model Heil DuraPack Python

Chassis with 9 Liter CNG \$ _____ Packer Body \$ 239,938 Total \$ _____

Chassis with 12 Liter CNG \$ _____ Packet Body \$ _____ Total \$ _____

Warranty Description

Basic Vehicle Warranty (cab & chassis)	Length of Warranty Period (time, mileage, etc.)	Warranty Provided By:	Vendor agrees to warranty terms stated in paragraph 14.4?
			Yes / No
Basic Warranty (body)	Length of Warranty Period (time, mileage, etc.)	Warranty Provided By:	Vendor agrees to warranty terms stated in paragraph 14.4?
	12 Months	Hei/C.I.T.E	<u>Yes</u> / No
Engine Warranty (paragraph 2.2)	Length of Warranty Period (time, mileage, etc.)	Warranty Provided By:	Vendor agrees to warranty terms stated in paragraph 14.4?
			Yes / No
Transmission Warranty (paragraph 2.11)	Length of Warranty Period (time, mileage, etc.)	Warranty Provided By:	Vendor agrees to warranty terms stated in paragraph 14.4?
			Yes / No
Exterior Finish Warranty (body)	Length of Warranty Period (time, mileage, etc.)	Warranty Provided By:	Vendor agrees to warranty terms stated in paragraph 14.4?
	12 Months	Hei/C.I.T.E	<u>Yes</u> / No
Hydraulic Pump Warranty (paragraph 10.1)	Length of Warranty Period (time, mileage, etc.)	Warranty Provided By:	Vendor agrees to warranty terms stated in paragraph 14.4?
	24 Months	Hei/C.I.T.E	<u>Yes</u> / No
Hydraulic Cylinder Warranty (body)	Length of Warranty Period (time, mileage, etc.)	Warranty Provided By:	Vendor agrees to warranty terms stated in paragraph 14.4?
	12 Months	Hei/C.I.T.E	<u>Yes</u> / No
Back-Up Vision System Warranty (paragraph 11.7)	Length of Warranty Period (time, mileage, etc.)	Warranty Provided By:	Vendor agrees to warranty terms stated in paragraph 14.4?
	60 Months	Pro-Vision	<u>Yes</u> / No

Other Information

Exterior Finish (paragraph 11.5)	Describe painting or coating system for the exterior surfaces of the body.
	Please see attached Exterior Finish Description Page.

Finished Overall Height (paragraph 11.9)	Measured height from the ground to the highest point of finished unit.	The LFUCG Division of Waste Management will have final approval of finished vehicle height. Stated heights in excess of thirteen feet (13') may be cause for rejection. Any unit whose measured height upon delivery exceeds that stated herein will not be accepted.
	(Empty space for data entry)	

Heil Python Exterior Finish Description

First Step- Smoothing – All weld slag, splatter or roughness shall be removed with the appropriate hand tools. No sand, shot or glass air blasting shall be permitted to eliminate contamination and possible distortion of higher gauge sheet materials used on the body.

Second Step- Purgation- A heated pressure wash shall drench the entire body with a silicate alkaline phosphate based pre-cleaner to clean all metal surfaces. This solution shall be non-corrosive to metals and shall be environmentally friendly.

Third Step- Pre-Treatment- An organically accelerated phosphoric acid based pretreatment will be applied to all metal surfaces. This step provides a chemical conversion coating which changes the chemical and physical nature of the surface by provided a surface that the next application (prime) will adhere to.

Fourth Step- Sealing- The entire body shall be coated with an application of the patented Dry-In-Place Seal from Henkel Surface Technologies. This process shall dramatically improve the surface finish's resistance to rusting that occurs from general wear and tear, and shall provide improvements to paint adhesion and other related corrosion that occurs over the life of the product. This shall help retain the "as new" appearance of the factory paint surface.

Fifth Step- Primer Coat Paint- The seal coat shall be painted using DuPont Corlar- a high performance, low VOC/HAPS epoxy polyamide primer-sealer. Corlar is a two-component gray primer-sealer that is lead and chromate free. This shall be applied in an amount necessary to achieve a dry film thickness of 1.2 mil.

Sixth Step- Finish Top Coat Paint- A high luster finish coat shall be applied using DuPont Imron Elite- a high-performance, low VOC (<3.5 lbs./gal RTS) two-component polyurethane enamel. An ample amount shall be applied to achieve a dry film thickness of 2 mil and shall result in a finish of 3.2 mil minimum film thickness.

CUSTOMER PROPOSAL



PREPARED FOR

LFUCG DIV OF FLEET SERVICES
669 BYRD THURMAN DR
LEXINGTON
KY 405109665

DATE

7/15/2022

PREPARED BY

WORLDWIDE EQUIPMENT OF WEST
VIRGINIA, IN
945 NANDINO BLVD
LEXINGTON
KENTUCKY 40511

QUOTE INFORMATION

WE2022000043C645
LR 64R G
Qty: 1



TECHNICAL SPECIFICATION

LR 64R G



		WEIGHT (LB)		LIST PRICE USD	
APPLICATION PACKAGES	DESCRIPTION	FRONT	REAR		
	CHASSIS CONFIGURATION PACKAGE	Vertical BOC CNG/LNG Emission Unit, LH Battery Box, Omitted Fuel Tanks	0	0	0

		WEIGHT (LB)		LIST PRICE USD	
CUSTOMER/VEHICLE INFO	DESCRIPTION	FRONT	REAR		
S	CHASSIS (BASE MODEL)	LR 64R G DAYCAB	7,485	1,478	0
S	CUSTOMER FLEET SIZE	DEALER FLEET WITH LESS THAN 25 VEHICLES IN OWN FLEET OF ANY VEHICLE BRAND	0	0	0
S	TYPE OF SERVICE	COMMERCIAL	0	0	0
S	WARRANTY REGISTRATION LOCATION	USA - WARRANTY REGISTRATION LOCATION	0	0	0
S	EMISSION WARRANTY CERTIFICATION	CARB + EPA Cummins Gas	0	0	0
S	INITIAL REGISTRATION LOCATION	USA REGISTRATION	0	0	0
S	VEHICLE APPLICATION CLASS	CLASS B HIGHWAY-INNER CITY	0	0	0
S	VEHICLE USE & BODY/TRAILER TYPE	REFUSE AUTOMATIC SIDE LOADER TRUCK	0	0	0
S	TERRAIN GRADE	NORMAL HIGHWAY, STARTING GRADES<12%	0	0	0
S	LOADING SURFACE	CONCRETE LOADING AND / OR UNLOADING SURFACE	0	0	0
S	VEHICLE VOCATION	REFUSE / LANDFILL OPERATION	0	0	0

		WEIGHT (LB)		LIST PRICE USD	
ENGINE/TRANSMISSIONS	DESCRIPTION	FRONT	REAR		
S	ENGINE PACKAGE, COMBUSTION	L9N-G 320 CUMMINS-NZ 320HP @ 2000 RPM (PEAK) 2200 RPM (GOV), 1000 LB-FT, US'21	1,608	84	0
S	TRANSMISSION	4500 RDS 6 SPEED ALLISON GEN 6 W/PROGNOSTICS, WITH PTO PROVISION	732	245	0

		WEIGHT (LB)		LIST PRICE USD	
EXHAUST/EMISSIONS	DESCRIPTION	FRONT	REAR		
S	EXHAUST	SINGLE VERTICAL RIGHT SIDE OUTBOARD MOUNTED STRAIGHT EXH STACK PLAIN END, SIDE OUTLET DIFFUSER	0	0	0
S	EXHAUST SYSTEM MATERIAL FINISH	W/O VERT EXH-BRIGHT FINISH	0	0	0
S	EMISSION ON BOARD DIAG CONTROL	EMISSION OBD, DISPLAY ONLY, USA2018	0	0	0

		WEIGHT (LB)		LIST PRICE USD	
ENGINE EQUIPMENT	DESCRIPTION	FRONT	REAR		
S	AIR CLEANER	15" SINGLE ELEMENT, DRY TYPE, AIR RESTRICTION INDICATOR ON FILTER	0	0	0
S	WINTERFRONT	FURNISH WINTER FRONT GRILLE COVER	0	0	0
S	AIR COMPRESSOR/DRYER	WABCO 1800P AIR DRYER W/ CUMMINS TWIN (30.4 CFM) AIR COMPRESSOR	0	0	0
S	AIR DRYER POSITION (CA)	AIR DRYER POSITION STANDARD	0	0	0

TECHNICAL SPECIFICATION (cont.)



ENGINE EQUIPMENT	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD
		FRONT	REAR	
CA ALTERNATOR	DELCO 12V 200A (28SI) BRUSH-TYPE W/ REMOTE VOLTAGE SENSING	18	0	181
BATTERIES	(3) MACK 12V 1000/3000 CCA THREADED STUD TYPE	16	7	103
S BATTERY BOX - MOUNTING (x)	PERPENDICULAR TO FRAME 11" FROM NTOF (3 BATTERY MAX)	0	0	0
S BATTERY BOX COVER	MOLDED PLASTIC	0	0	0
EMERGENCY START CONNECTIONS	EMERGENCY START STUDS, BATTERY BOX MOUNTED	7	0	173
S BATTERY DISCONNECT SWITCH	FLAMING RIVER BIG SWITCH WIRED TO POSITIVE SIDE	0	0	0
S STARTER MOTOR	12 VOLT DELCO 39MT-MXT	31	0	0
S FAN DRIVE	HORTON FAN, "ON-OFF"	0	0	0
S COOLANT PROTECTION	ETHYLENE GLYCOL EXTENDED LIFE COOLANT (50/50 MIX DYED RED) TO -34DEG	0	0	0
COOLING PERFORMANCE	WITH AUXILIARY COOLING	80	-15	5,198
RADIATOR TYPE	EXTRA NARROW RADIATOR WITH LENGTH 1 (60 DM2)	0	0	0
S HOSES - RADIATOR/HEATER	SILICONE RADIATOR AND HEATER HOSES	0	0	0
S FUEL-WATER SEPARATOR	CUMMINS CNG COALESCING FUEL FILTER, STANCHION MOUNTED ON FRAME	0	0	0
S ENGINE HEATERS	CUMMINS BLOCK HEATER + W/O OIL PAN HEATER	0	0	0
S ENGINE BLOCK HEATER RECEPTACLE (CA)	ENGINE BLOCK HEATER RECEPTACLE, BASIC LOCATION	0	0	0
S TETHER DEV PKG, CAPS & COVERS	PLASTIC COATED CABLE, MOUNTED FRONT OF EACH BATTERY BOX LENGTH TO ALLOW COVER TO SET ON GROUND	0	0	0

CLUTCH/TRANS EQUIPMENT	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD
		FRONT	REAR	
DRIVELINE - MAIN	MERITOR 176 MXL "XTENDED LUBE" (PROPS-M)	3	3	0
S DRIVELINE - INTERAXLE	MERITOR 17 MXL "XTENDED LUBE"	0	0	0
S PROPELLR SHAFT MAIN, UNVSL JNT	UNIVERSAL JOINT HALF-ROUND TYPE	0	0	0
S PROP SHAFT INTERAXL UNIV JOINT	HALF-ROUND UNIVERSAL JOINT	0	0	0
S LUBRICANTS, TRANSMISSION	TRANSYND SYNTHETIC LUBE FOR ALLISON TRANS	0	0	0
S TRANSMISSION OIL COOLER	REMOTE MOUNTED OIL COOLER FURNISH FOR ALLISON TRANSMISSION	0	0	0

FRONT AXLE EQUIPMENT	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD
		FRONT	REAR	
S FRONT AXLE	20000# (9100 KG) MACK FXL20 WIDE PIVOT CENTER STRAIGHT SPINDLE/UNITIZED BEARINGS	0	0	0
S SPRINGS - FRONT	MACK TAPERLEAF 20000# (9100 KG) GROUND LOAD RATING, EQUAL BIAS	0	0	0
CA FRONT AXLE BRAKES	MERITOR "S" CAM 16.5" X 7" Q-PLUS BRAKES	0	0	371
S FRONT BRAKE ADJ. MANUFACTURE	HALDEX - AUTOMATIC	0	0	0
S FRONT BRAKE CHAMBER MFG.	FRONT BRAKE CHAMBER MANUFACTURER, MGM	0	0	0
S HUB MATERIAL, FRONT	FERROUS	0	0	0

TECHNICAL SPECIFICATION (cont.)



FRONT AXLE EQUIPMENT	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
S	SHOCK ABSORBER, FRONT	DOUBLE ACTING TYPE	20	0	0
S	STEERING	M100P PLUS RIGHT SIDE ASSIST CYLINDER	142	0	0
S	BUMP STOP, FRONT SUSPENSION	STATIC LOAD CUSHIONS	0	0	0

REAR AXLE EQUIPMENT	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
	REAR AXLE	46000# (20900kg) MACK S462R CAST DUCTILE HOUSING	0	1,614	2,635
S	REAR AXLE CASING WIDTH	W/O WIDE TRACK AXLE	0	0	0
S	CARRIER - REAR AXLE	CRDP150/151 AVAILABLE WITH OPTIONAL DRIVER CONTROLLED INTERWHEEL DIFFERENTIAL LOCKS, SEE 254 SYMBOL	0	0	0
	REAR AXLE RATIO	5.66 RATIO	0	0	0
	REAR SUSPENSION	SS46 MACK CAMELBACK MULTILEAF 46,000 lb, HEAVY DUTY	0	1,930	677
	SPRINGS - ANTI-SWAY	SPRINGS, ANTI-SWAY	0	106	0
	REAR SUSP. BEAM BUSHINGS	BRONZE	0	36	0
S	BOGIE SPREAD, REAR	50" AXLE SPACING (BOGIE WHEELBASE)	0	0	0
S	TRANSVERSE TORQUE RODS, R SUSP	TRANSVERSE TORQUE ROD (REAR AXLE ONLY)	0	67	0
	BRAKES - REAR	MERITOR - CAM 16.5"x8.0" Q+ (Total for QTY = 2)	0	0	148
S	BRAKE, DRIVE, REAR	CAST IRON	0	0	0
S	REAR BRAKE ADJ MANUFACTURE	HALDEX - AUTOMATIC	0	0	0
	SPRING BRAKE CHAMBERS - SIZE	REAR SPRING BRAKE CHAMBERS 30/30 TYPE	0	0	0
	BRAKE ORI REAR-MOST DRIVE AXLE	DRUM BRAKE CHAMBER ORIENTATION: High Mount - Rear of Axle - Chamber Down	0	0	0
S	PARKING BRAKE CHAMBER	MGM TR3030LP3THD BRAKE CHAMBERS (Total for QTY = 2)	0	0	0
S	BRAKE CHAMBER DIAPHRAGM MATERIAL (CA in PC28 only)	W/O BRAKE DIAPHRAGM OPTION	0	0	0
S	HUB MATERIAL, DRIVE	IRON PRESET REAR HUB W/INTEGRATED SPINDLE NUT	0	0	0
S	POWER DIVIDER LOCKOUT	POWER DIVIDER LOCKOUT, W/BUZZER & LIGHT	0	40	0
S	LUBRICANTS, REAR AXLE(S)	FACTORY OPTION LUBE - REAR AXLE 80W-90	0	0	0
S	ANTILOCK BRAKE SYSTEM	BENDIX WITHOUT TRACTION CONTROL 4S4M	0	0	0

FRAME EQUIPMENT/FUEL TANKS	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
	WHEELBASE	210"	247	247	283
	AF (OVERHANG)	67"	-17	106	0
	FRAME RAILS & LINERS	9.5 x 82 x 340mm - (0.375" x 3.25" x 13.38")W/ Full Liner; RBM 3,122,400 LB-IN	0	0	959
S	FRONT FRAME LENGTH	FRONT FRAME LENGTH 1525MM	146	-19	0
S	CROSSMEMBERS	STEEL 1/2" PL BOLTED BOC & INTERMDT 1/8" BELOW TOP OF RAIL	0	0	0
	AUX CROSSM. IN REAR OVERH TYPE	WITHOUT AUXILIARY CROSSMEMBER	0	0	-90

TECHNICAL SPECIFICATION (cont.)



FRAME EQUIPMENT/FUEL TANKS	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
S	REAR CROSSMEMBER OPTIONS	STEEL CLOSING REAR CROSSMEMBER	-11	60	0
S	FRONT BUMPER	FLUSH-PAINTED STEEL	0	0	0
S	GUARD	SKID PLATE UNDER BUMPER AND RADIATOR	128	-8	0
S	TOWING DEVICE, FRONT	CENTER TOW CAPABILITY BASED ON BUMPER SELECTION	0	0	0
S	FUEL TANK - LH	DELETE LH FUEL DIESEL TANK - FOR LOCAL COMPLETION & CERTIFICATION OF CNG SYSTEM	0	0	0
S	FUEL TANK - RH	DELETE RH DIESEL TANK - FOR LOCAL COMPLETION & CERTIFICATION OF CNG SYSTEM	0	0	0
S	FUEL HOSES, LIQUID	HIGH PRESSURE HOSES	0	0	0

AIR/BRAKE	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
	AIRTANK DRAIN VALVE	MANUAL DRAIN VALVES, WITH LANYARDS ON ALL TANKS	-2	0	-27
	AIRTANK MATERIAL	ALUMINUM AIR TANK PAINTED CHASSIS COLOR	-24	0	383
S	PARKING BRAKE VALVE	SINGLE VALVE SYSTEM	0	0	0
	AUXILIARY BRAKE CONTROL	W/O WORK BRAKE	0	0	-261

ELECTRICAL	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
S	BACK-UP ALARM	PRECO, MODEL 1059	0	3	0
S	ROOF & SIDE MARKER LIGHTS	TRUCKLIGHT TYPE ROOF MARKER for LR	0	0	0
S	HEADLAMP BULB TYPE	HEADLAMP BULB TYPE, LED	0	0	0
S	DAYTIME RUNNING LIGHTS	ENGINE RUNNING ACTIVATED	0	0	0
S	AUX. POWER OUTLET, INTERIOR (CA in PC28 only)	COMPUTER AND 2-WAY RADIO DEDICATED CIRCUIT	0	0	0
S	FRONT & SIDE INDICATOR LMP TYP	FRONT AND SIDE DIRECTION IND & MARKER, LED TYPE	3	0	0

TRAILER CONNECTIONS	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
S	EXT. INDICATOR LMP, MAIN SWITCH (CA in PC28 only)	FURNISH ON OR NEAR BATTERY BOX (LIGHT ON IN RUN POSITION)	0	0	0

PTO	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
	CRANKSHAFT ADAPTER	1350 SERIES FLANGE (DOES NOT INCLUDE FRONT FRAME EXTENSION)	18	-2	742
S	TRANSMISSION MOUNTED PTO	PREP KIT FOR EXTENDED SHAFT PTO	0	0	0
	PTO TRANSMISSION MOUNTED ADM.	SINGLE PTO TRANSMISSION	0	0	0
S	BODY BUILDER MODULE	ControlLink III BODY BUILDER EL PREP KIT, REFUSE, RP170 ELECT. INTERFACE (3 CON 54 PINS)	0	0	0

TECHNICAL SPECIFICATION (cont.)



SPECIALTY EQUIPMENT	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
S	PASSIVE SAFETY SYSTEM	WITHOUT PASSIVE SAFETY SYSTEM	0	0	0
S	TRANSPORT ADAPTATION	UNIFORM LOAD NO ADAPTATION	0	0	0

CAB INTERIOR (A THRU G)	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
	CLIMATE UNIT	MACK INTEGRAL W/HEATER (COMBO HEATER/AIR CONIDITIONER UNIT) W/R134a REFRIGERANT	93	0	0
S	AIR CONDITIONING/HEATER	(LR) MANUAL CONTROL CLIMATE UNIT	0	0	0
S	SURVEILLANCE CAMERA	WITHOUT CAMERA	0	0	0
S	OPTIONS (CA)				
S	FLOOR MATS	FLOOR MAT, RUBBER	0	0	0
S	CARBON MONOXIDE	CARBON MONOXIDE DETECTION SYSTEM	0	0	0
S	DETECTION SYS				
S	FUEL LEAK DETECTOR	FUEL LEAK DETECTOR, GAS	0	0	0
S	GAUGE TRANSM. OIL TEMP	TRANSMISSION GAUGE AND TRANS. OIL HIGH TEMPERATURE LIGHT	0	0	0
S	GAUGES - UNIT OF MEASURE	U.S. UNITS (PREDOMINANT)	0	0	0

CAB INTERIOR (H THRU R)	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
S	KEY TYPES FOR DOORS	BASIC UNIQUE KEY	0	0	0
S	AUDIO ACCOMMODATION	PREMIUM STEREO, AM/FM, MP3, WEATHER BAND, BLUETOOTH	0	0	0
S	ANTENNA - RADIO	RADIO ANTENNA, CH STYLE COWL MOUNTED ON LH SIDE	0	0	0
S	AUDIO SHUTOFF	AUTO SHUTOFF FOR RADIO ENTERTAINMENT SYSTEM WHEN VEHICLE IS ENGAGED IN REVERSE	0	0	0
S	POWER LEADS	POWER LEADS (5-WAY BINDING POSTS FOR CB RADIO) MOUNTED ON TOP OF DASH	0	0	0

CAB INTERIOR (S THRU Z)	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
S	SEAT - DRIVER'S	AIR-SEARS MID-BACK SEAT C-2 W/FABRIFORM CUSHIONS	0	0	381
	SEAT - PASSENGER'S	OMIT RIDER SEAT	0	0	-134
	SEAT COVERING	FABRIFORM CLOTH, BLACK, DRIVER SEATS	0	0	0
	SEAT BELT(S)	LAP & SHOULDER BELTS FOR (2) DRIVER SEATS, TO BE ORANGE IN COLOR	0	0	0
S	STEERING WHEEL	DIAMETER 450MM STEERING WHEEL, RUBBER GRIP V1	0	0	0
	STEERING WHEEL ADJUSTMENT	STEERING COLUMN, ADJUSTABLE TILT TELESCOPE	0	0	0
S	TURN SIGNALS	SELF CANCELLING TURN SIGNALS	0	0	0
S	WASHER RESERVOIR POSITION	W/O WINDSHIELD WASHER OPTION	0	0	0
S	WINDSHIELD PROTECTOR	FURNISH WINDSHIELD PROTECTOR	16	0	0

TECHNICAL SPECIFICATION (cont.)



CAB EXTERIOR	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
S	FRONT GRILLE	LR BLACK GRILLE WITH BLACK SURROUND	0	0	0
	CAB	RH & LH SIT DOWN DRIVING POSITION, EXTENDED CAB VERSION	0	0	1,303
	CAB DOOR OPTIONS	LH & RH FRONT HINGED DOORS W/POWER WINDOWS BOTH SIDES	0	0	892
S	CAB TILT PUMP	LOCATED IN STD LOCATION	0	0	0
S	CAB INSTEP VERSION	Cab Low Entry Step	0	0	0
S	PASSENGER SIDE VISIBILITY OPTIONS	WITHOUT AUXILIARY WINDOW IN RH DOOR WITHOUT SIDE CLOSE VIEW MIRROR	0	0	0
S	HORN - AIR	(1) TWIN-UNDER CAB TRUMPET W/DUAL LANYARD CONTROL	0	0	0
S	HORN - ELECTRICAL	DUAL TONE	0	0	0
S	MIRRORS - LEFT SIDE EXTERIOR	LH BLACK AERO MIRROR ELECTRICAL OPERATED & HEATED, W/ HEATED SQUARE BLACK CLOSE VIEW	0	0	0
S	MIRRORS - RIGHT SIDE EXTERIOR	RH BLACK AERO MIRROR ELECTRICAL OPERATED & HEATED, W/ HEATED SQUARE BLACK CLOSE VIEW	0	0	0

WHEELS & TIRES	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
	TIRES BRAND/TYPE - FRONT	425/65R22.5 L MICHELIN XZY3 (22800 lbs) (Total for QTY = 2)	415	0	134
CA	WHEELS - FRONT	22.5x12.25 ACCURIDE BLACK POWDER COAT STEEL, 4.63" OFFSET, 5 HAND HOLE (Total for QTY = 2)	239	0	136
S	FRONT AXLE TIRE & WHEEL QUANTITY	TWO FRONT TIRES & WHEELS	0	0	0
	TIRES BRAND/TYPE - REAR	12R22.5 H MICHELIN XDN2 (27120 lbs) (DRIVE ONLY) (Total for QTY = 8)	0	1,182	3,112
CA	WHEELS - REAR	22.5x8.25 ACCURIDE HEAVY DUTY BLACK POWDER COAT STEEL, 6.62" OFFSET, 2 HAND HOLE (Total for QTY = 8)	0	635	880
S	REAR AXLE TIRE & WHEEL QUANTITY	EIGHT REAR AXLE TIRES & WHEELS	0	0	0
S	DRIVE WHEEL STUDS	DRIVE WHEEL STUDS LONGER LENGTH	0	0	0
S	TIRE INFLATION VALVE	STANDARD VALVE STEMS AND CAPS	0	0	0

ENGINE ELECTRONICS	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
S	OIL PRESSURE, ENGINE SHUTDOWN	OIL PRESSURE, ENGINE SHUTDOWN	0	0	0
S	COOLANT TEMP, ENGINE SHUTDOWN	COOLANT TEMP, ENGINE SHUTDOWN	0	0	0
S	ENGINE PROTECTION SYSTEM	ENGINE PROTECTION (SHUTDOWN)	0	0	0
S	SMART IDLE ELEVATED IDLE RPM TIME	INCREASE 10 MINUTE MAXIMUM TIME	0	0	0
S	IDLE S/D ABS TAMPER CHECK	IDLE SHUTDOWN ABS TAMPER CHECK, ENABLED	0	0	0
S	IDLE S/D WARNING TIME	30 SEC IDLE S/D WARNING TIME	0	0	0
S	IDLE S/D IF WARM-UP TEMP	38C DEG (100F), WARM UP TEMP DELAY	0	0	0
S	IDLE S/D WARM-UP TIMER	5 MIN. WARM UP TIME DELAY	0	0	0
S	IDLE S/D IF PTO ACTIVE	ENGINE IDLE SHUTDOWN TIME OVERRIDDEN IF PTO ACTIVE	0	0	0
S	IDLE SHUTDOWN IF POWER > LIMIT	ENG IDLE SHUTDOWN TIME OVERRIDDEN IF TORQUE > THAN LIMIT	0	0	0

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ENGINE ELECTRONICS	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
S	EL HD THROTTLE,MAX ROAD SPEED	ELECTRONIC HAND THROTTLE, MAX ROAD SPEED, 16 KM/H (10 MPH)	0	0	0
S	EL HAND THROTTLE,MAX ENG SPEED	ELECTRONIC HAND THROTTLE, MAX ENGINE SPEED, 2100 RPM	0	0	0
S	EL HAND THROTTLE,MIN ENG SPEED	ELECTRONIC HAND THROTTLE, MIN ENGINE SPEED, 700 RPM	0	0	0
S	EL HD THROTTLE,SPEED RAMP RATE	ELECTRONIC HAND THROTTLE, SPEED RAMP RATE, 100 RPM/SEC	0	0	0

TRANSMISSION ELECTRONICS	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
S	TRANSMISSION ELECTRONICS PACKAGE	GENERAL REFUSE SERVICE (168) - LIMITED TO 2ND GEAR IN SECONDARY MODE (RH DRIVING POSITION)	0	0	0
	TRANSM AUTO NEUTRAL ON P-BRAKE	ALLISON PARK BRAKE AUTO NEUTRAL-REQUIRES PARK BRAKE TO BE DISENGAGED PRIOR TO SELECTING A GEAR TO DR	0	0	0
	TRANSMISSION ELECTRONIC SHIFTING PROPERTIES	FUELSENSE, FULL NEUTRAL AT STOP	0	0	0

VEHICLE ELECTRONICS	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
S	ROAD SPEED LIMITER SETTING	105 KM/H ROAD SPEED LIMITER(65 MPH)	0	0	0
S	PEDAL RSL SETTING	105 KM/H PEDAL ROAD SPEED LIMITER (65MPH)	0	0	0
S	CRUISE CONTROL	CRUISE CONTROL	0	0	0
S	CRUISE CONTROL, MAX SPEED	MAX CRUISE, 105 KPH (65 MPH)	0	0	0
S	CRUISE CONTROL MIN SPEED	MIN CRUISE, 32 KPH (20 MPH)	0	0	0
S	DETECTION SPEED SENSR TMRNG	DETECTION OF SPEED SENSOR TAMPERING, ENABLE	0	0	0
S	ENG TORQUE LIMIT,SPEED SENSOR	ENG TORQUE LIMITED TO 50%, IF SPEED SENSOR TAMPER DETECTED	0	0	0
S	ENGINE OVERSPEED,ALL COND, LOG	ENGINE OVERSPEED, ALL CONDITIONS, TIME LOG IF ABOVE 2200 RPM	0	0	0
S	ENGINE OVERSPEED,FUELED, LOG	ENGINE OVERSPEED, FUELED, TIME LOG IF ABOVE 2100 RPM	0	0	0
S	VEHICLE OVERSPEED,ALL COND,LOG	VEHICLE OVERSPEED,ALL COND, TIME LOG IF ABOVE 75MPH (121KMH)	0	0	0
S	VEHICLE OVERSPEED, FUELED, LOG	VEHICLE OVERSPEED, FUELED, TIME LOG IF ABOVE 70MPH (113KMH)	0	0	0
S	ENGINE IDLE DELAY TO LOG	ENGINE IDLE DELAY TO START LOG, 2 MIN	0	0	0
S	PERIODIC TRIP LOG DAY OF MONTH	PERIODIC TRIP LOG, DAY 1 OF THE MONTH	0	0	0
S	VEHICLE APP SERVICE INTERVALS	SERVICE INTERVALS, VOCATIONAL APPLICATION	0	0	0
S	SERVICE ALERT	WITH SERVICE ALERT	0	0	0
S	MAINTENANCE DUE ALERT %	ACTIVATE ALERT AT 90% OF THE TIME/DISTANCE SETTING	0	0	0

TECHNICAL SPECIFICATION (cont.)



PTO ELECTRONICS	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
S	PTO1 SINGLE SPEED CONTROL RPM.	PTO 1ST, SINGLE SPEED SETTING, 1000 RPM	0	0	0
S	PTO 1ST, MAX ROAD SPEED	1ST PTO, MAX ROAD SPEED, 10 MPH (16 KPH)	0	0	0
S	PTO 1ST, SPEED RAMP RATE	PTO 1ST, SPEED RAMP RATE 100 RPM/SEC	0	0	0
S	PTO 1ST, MAX ENGINE SPEED	PTO 1ST, MAX ENGINE SPEED, 2100 RPM	0	0	0
S	PTO 1ST, ROAD SPEED LIMIT	PTO 1ST, ROAD SPEED LIMIT, 97 KMH (60 MPH)	0	0	0
S	PTO 1ST, MINIMUM ENGINE SPEED	PTO 1ST, MINIMUM ENGINE SPEED, 600 RPM	0	0	0
S	PTO 2ND, SINGLE SPEED SETTING	PTO 2ND, SINGLE SPEED SETTING, 1000 RPM	0	0	0
S	PTO 2ND, MAX ROAD SPEED	2ND PTO, MAX ROAD SPEED, 10 MPH (16 KPH)	0	0	0
S	PTO 2ND, SPEED RAMP RATE	PTO 2ND, SPEED RAMP RATE 100 RPM/SEC	0	0	0
S	PTO 2ND, MAX ENGINE SPEED	PTO 2ND, MAX ENGINE SPEED, 2100 RPM	0	0	0
S	PTO 2ND, ROAD SPEED LIMIT	PTO 2ND, ROAD SPEED LIMIT, 97 KMH (60 MPH)	0	0	0
S	PTO 2ND, MINIMUM ENGINE SPEED	PTO 2ND, MINIMUM ENGINE SPEED, 600 RPM	0	0	0

PAINT	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
S	PAINT DESIGN	SINGLE COLOR	0	0	0
	PAINT TYPE	METALLIC PAINT	0	0	246
	PAINT COLOR - FIRST COLOR	BRIGHT BLUE METALLIC; P3585	0	0	177
S	PAINT COLOR - SECOND COLOR	NO SECOND TRUCK COLOR PROVIDED; NO COLOR	0	0	0
S	PAINT COLOR - THIRD COLOR	NO THIRD TRUCK COLOR PROVIDED; NO COLOR	0	0	0
S	CAB COLOR	SAME AS FIRST COLOR - CAB	0	0	0
S	PAINT - CAB PAINT SYSTEM	PAINT - CAB, URETHANE CLEAR COAT	0	0	0
	CHASSIS RUNNING GEAR PROCESS CODE	CHASSIS PAINT PROCESS, STANDARD COLOR (MACK BLACK) 6ABZ1X	0	0	0
S	CHASSIS RUNNING GEAR	MACK BLACK (URETHANE); P3036	0	0	0
S	BUMPER	PAINT BUMPER SAME COLOR AS CHASSIS RUNNING GEAR	0	0	0
S	FUEL TANK - ***NO INVENTED VARIANTS ALLOWED in the FUEL TANK PAINT FAMILY***	W/O OPTIONAL FUEL TANK PAINT	0	0	0
S	HUBS & DRUMS-FRONT	SAME AS CHASSIS RUNNING GEAR	0	0	0
S	HUBS & DRUMS-REAR	SAME AS CHASSIS RUNNING GEAR	0	0	0

CALCULATED CODES - KAX	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
S	PROPCALC SELECTION	YES, THE ORDER MUST BE CALCULATED	0	0	0
	AUX CROSSM. IN REAR OVERHANG	W/O OPTIONAL CROSSMEMBERS BEHIND REAR AXLE/BOGIE	25	-81	-30

BASE WARRANTY & PURCHASED COVERAGES	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
S	VEHICLE WARRANTY TYPE	HEAVY DUTY WARRANTY CLASSIFICATION	0	0	0
S	BASIC CHASSIS COVERAGE	HEAVY DUTY STANDARD BASE COVERAGE 12 MONTHS/100,000 MILES (161,000 KM)	0	0	0

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TECHNICAL SPECIFICATION (cont.)



BASE WARRANTY & PURCHASED COVERAGES	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD	
		FRONT	REAR		
	EMISSION - SURCHARGE	CARB + EPA Cummins Gas	0	0	0
S	ENGINE WARRANTY	CUMMINS ENGINES 8.9L (Contact Cummins for Standard Warranty and Extended Coverage Details)	0	0	0
S	EMISSION COMPONENT COVERAGE	CUMMINS ENGINES (Contact Cummins for Standard Warranty and Extended Coverage Details)	0	0	0
S	TRANSMISSION WARRANTY	ALLISON TRANSMISSIONS (Contact Allison Transmission for standard warranty and extended coverage data)	0	0	0
S	CARRIER & AXLE HOUSING WARRANTY	STANDARD MACK HEAVY DUTY COVERAGE 60 MONTHS / 500,000 (804,672 KM)	0	0	0
S	AIR CONDITIONING WARRANTY	AIR CONDITIONING STANDARD COVERAGE (Sealed System Only) 12 MONTHS UNLIMITED MILEAGE	0	0	0
S	CHASSIS TOWING WARRANTY	STANDARD NORMAL / HEAVY DUTY CHASSIS TOWING 90 DAYS OR 5,000 MILES	0	0	0
S	ENGINE TOWING WARRANTY	CUMMINS ENGINES (Contact Cummins for Standard Warranty and Extended Coverage Details)	0	0	0
S	PREPAID API	WITHOUT PREPAID API	0	0	0

ADDITIONAL ENGINEERING (Included)	DESCRIPTION	WEIGHT (LB)		LIST PRICE USD
		FRONT	REAR	
CA		0	0	0

FRONT / REAR AXLE WEIGHTS (LB) 11407 7708
TOTAL WEIGHT (LB) 19,115

PERFORMANCE - PREDICTOR



Inputs Required	Inputs	UOM
Vehicle Type	Aero Muscle Hood - Roof Fairing (0.60)	MPH
Performance Level	>67 MPH / >108KPH	MPH
Frontal Area	110.0	FEET ²
Accessory Power Loss	11.0	HP

VEHICLE SPECIFICATION SUMMARY

Model		LR 64R G
Gross Combination Weight		MACK CAB OVER PRODUCTS
Vehicle Application		NORMAL HIGHWAY, STARTING GRADES<12%
Body/Trailer Type		REFUSE AUTOMATIC SIDE LOADER TRUCK
Loading/Unloading Surface Type		CONCRETE LOADING AND / OR UNLOADING SURFACE
Engine		L9N-G 320 CUMMINS-NZ 320HP @ 2000 RPM (PEAK) 2200 RPM (GOV), 1000 LB-FT, US'21
Peak Power	HP	320.0 @ 1300 - 1300
Peak Torque	Newton Meters	1355 @ 1300
Transmission		4500 RDS 6 SPEED ALLISON GEN 6 W/PROGNOSTICS, WITH PTO PROVISION
Rear Axle		46000# (20900kg) MACK S462R CAST DUCTILE HOUSING
Rear Axle Ratio		5.66
Rear Tire		12R22.5 H MICHELIN XDN2 (27120 lbs) (DRIVE ONLY)
Tire Revolutions per Mile	Mile	483
Total Reduction		3.79

CALCULATED PERFORMANCE SUMMARY

	Speed	UOM	RPM	Desired / Recommended Value	Status
Engine RPM @ 65 MPH	65.2	MPH	1991		
Engine RPM @ Desired Cruise Speed	65.2	MPH	1991	1800 - 2100 rpm	OK
Engine RPM @ Road Speed Limit (RSL)	65.2	MPH	1991	< 2200 rpm	OK
Sweet Spot Cruise Speed Range in Top Gear	59.0 - 68.8	MPH	1800 - 2100		
Top Gear Speed Range	39.3 - 72.1	MPH	1200 - 2200	55.0 MPH	OK
Minimum Practical Speed In Reverse	2.4	MPH	600		
Maximum Practical Speed in Reverse	8.7	MPH	2200		
Minimum Practical Speed In Lowest Forward Gear	1.2	MPH	600		
Maximum Practical Speed In Lowest Forward Gear	4.3	MPH	2200		
	Concrete / Asphalt		UOM		
Wheel HP Required at (65 MPH) Cruise Speed	227.0 / 249.0		HP		
Wheel HP Required at (75 MPH) Road Speed Limit	227.0 / 249.0		HP		
Wheel HP Required at (92 MPH) Top Speed	282.2 / 307.0		HP		

PERFORMANCE - PREDICTOR *(cont.)*



VEHICLE SPECIFICATION SUMMARY			
Gradeability			Recommended Min. Gradeability in Top Gear
Maximum in Top Gear (Concrete)	1.2%		1.9%
Maximum in Top Gear (Asphalt)	1.0%		1.9%
Startability			Recommended Min. Startability
In Lowest Gear	24.5%		12.0%
Loading/Unloading Surface Type	CONCRETE LOADING AND / OR UNLOADING SURFACE		
			Recommended Speed on 1.5% Grade
Speed on a 1.5% Grade (Concrete)	45.5 MPH		>67 MPH
	@1575 rpm in 6th gear		PL5
Suggested Value for Gear Down Vehicle Speed	RSL - 10		
Driveability Rating		Status	
100% Max Power available after shift	CAUTION!		
>95% Very Good >90% Acceptable			
Performance Level	Recommended Speed on 1.5% Grade	Min. Gradeability in Top Gear	
PL5 - High Performance	>67 MPH	1.9%	
PL4 - Performance	61 - 67 MPH	1.7%	
PL3 - Economy	54 - 60 MPH	1.5%	
PL2 - Fleet / Construction	47 - 53 MPH	1.3%	
PL1 - Heavy Haul	40 - 46 MPH	1.1%	

RPM at 65 MPH



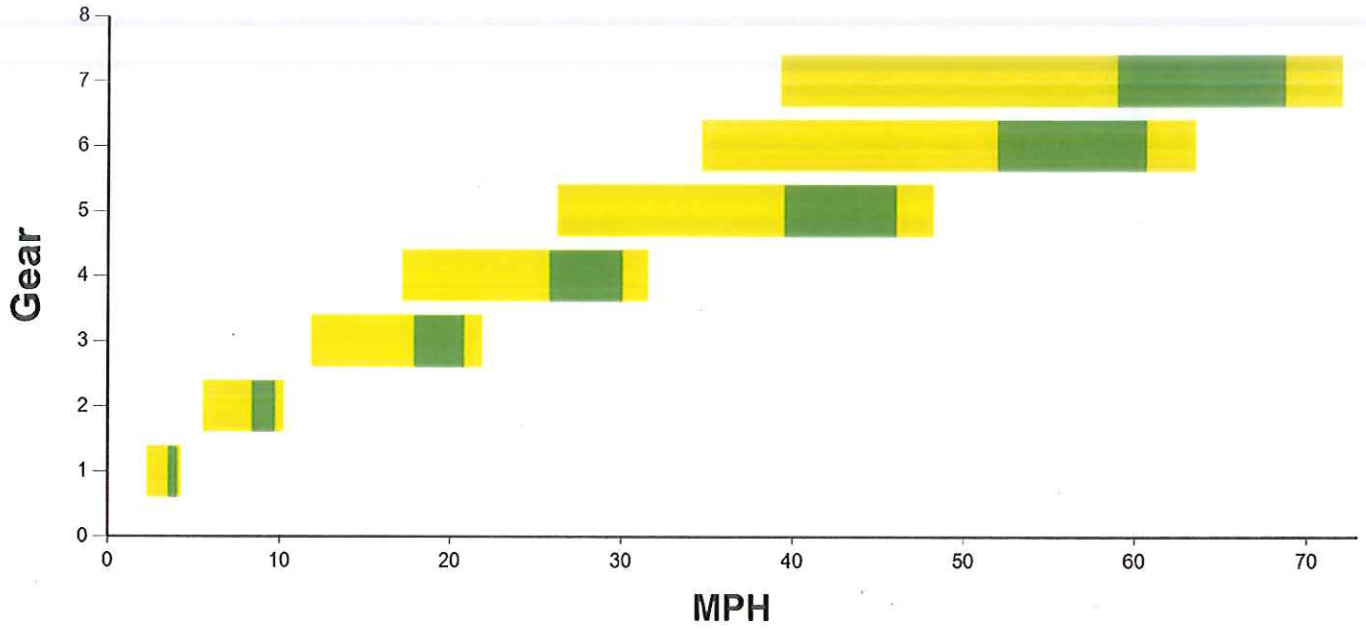
RPM at Cruise Speed



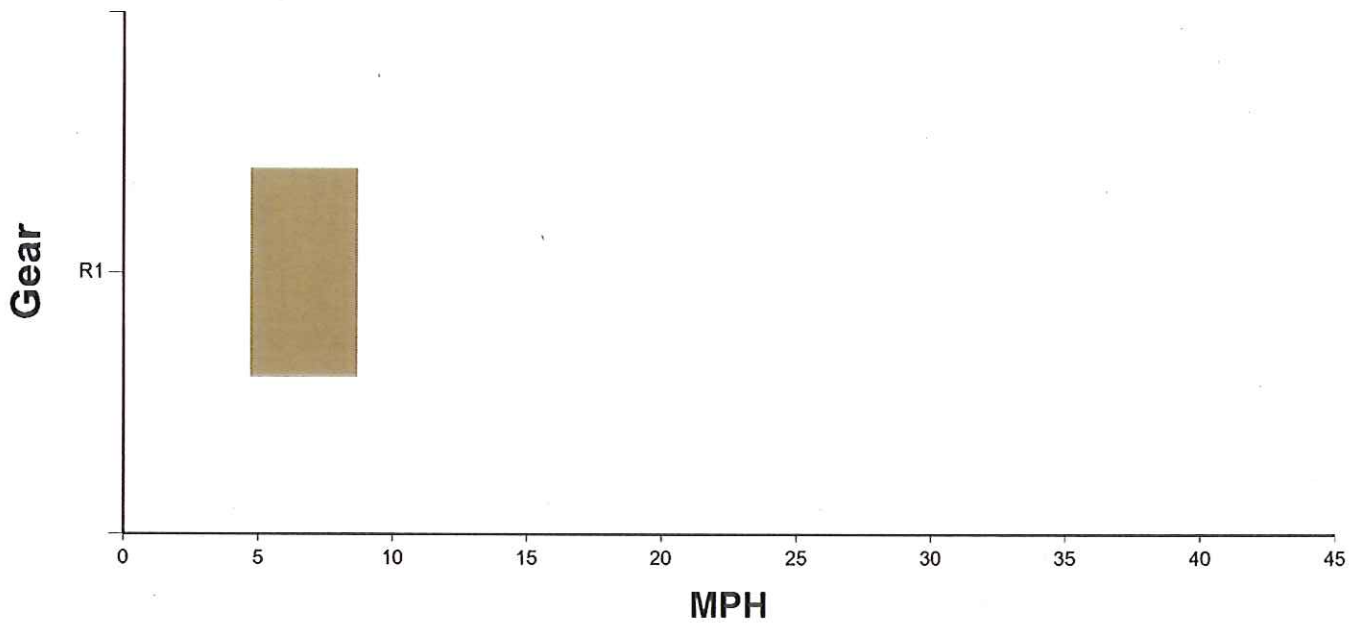
	MPH	RPM
Minimum of Engine Range	39.3	1200.00
Minimum of Economy Range	59.0	1800.00
Cruise Speed	65.2	1990.90
Maximum of Economy Range	68.8	2100.00
Road Speed Limit	65.2	1990.90
Maximum of Engine Range	72.1	2200.00



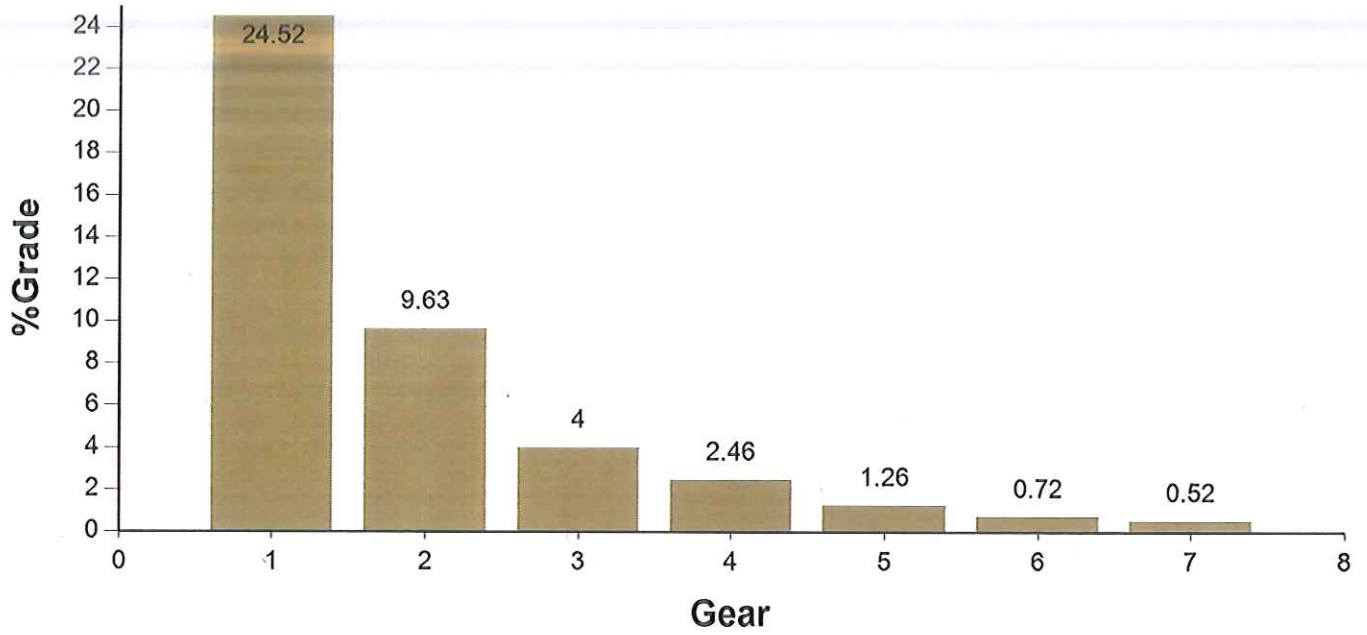
Forward Geared Speed



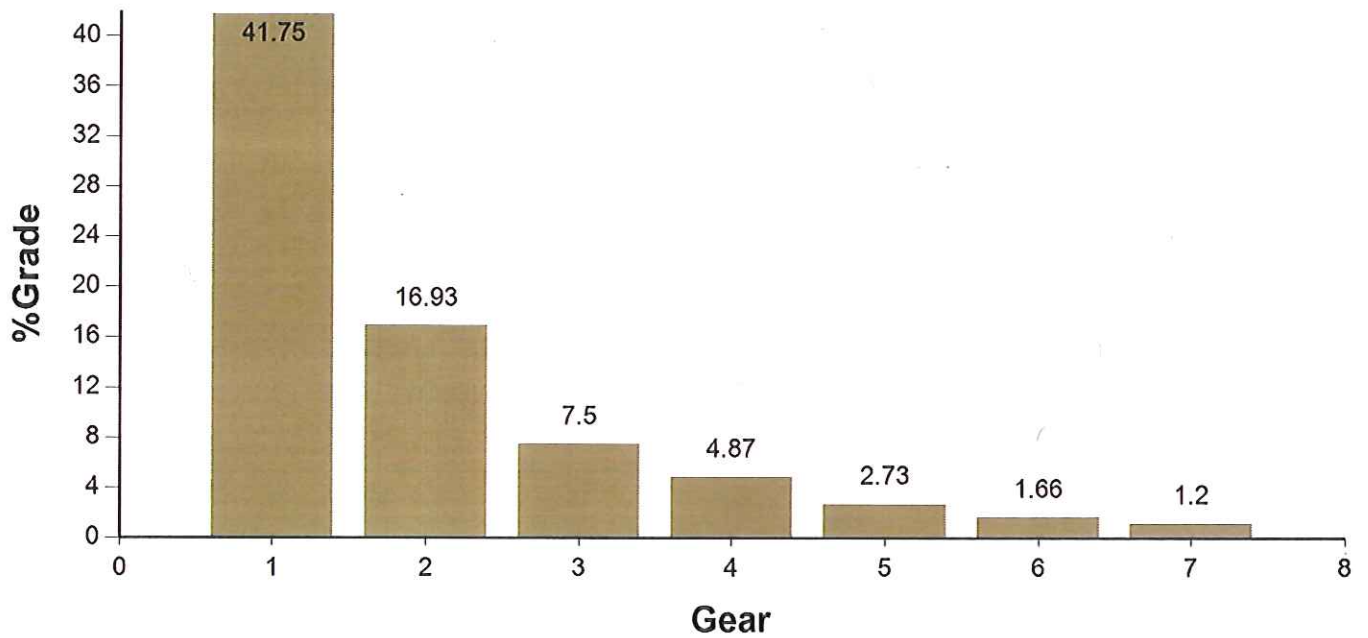
Reverse Geared Speed



Startability

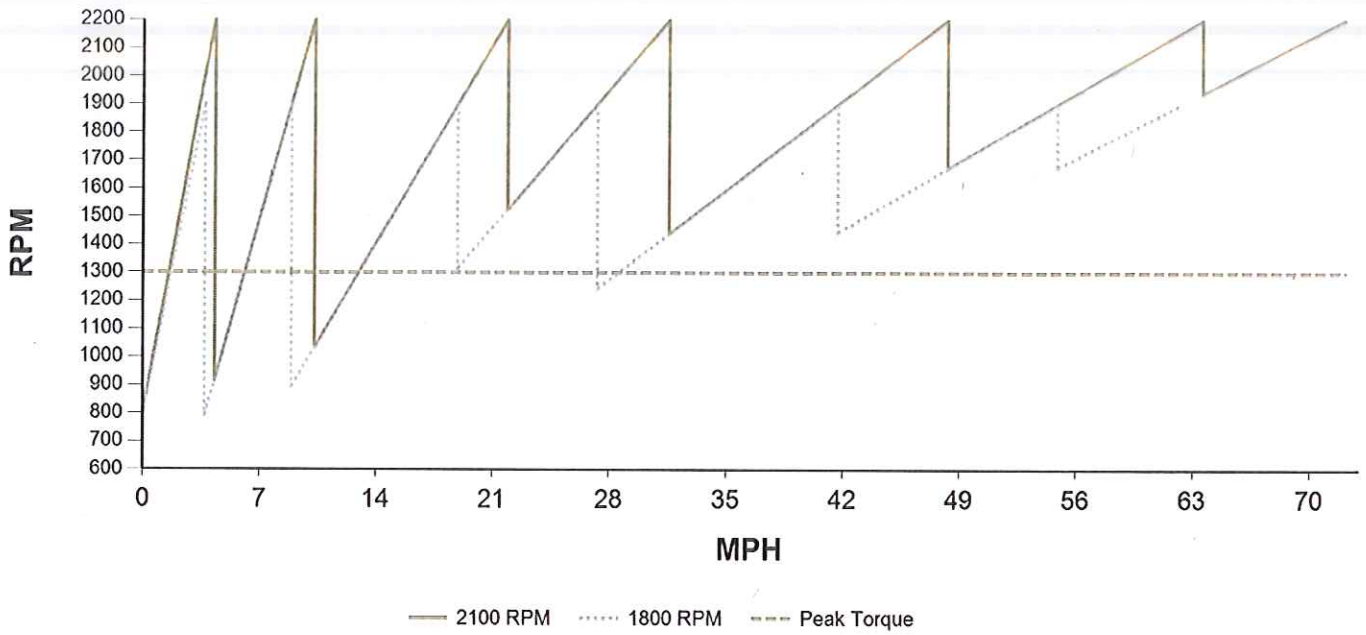


Gradeability at Max Torque

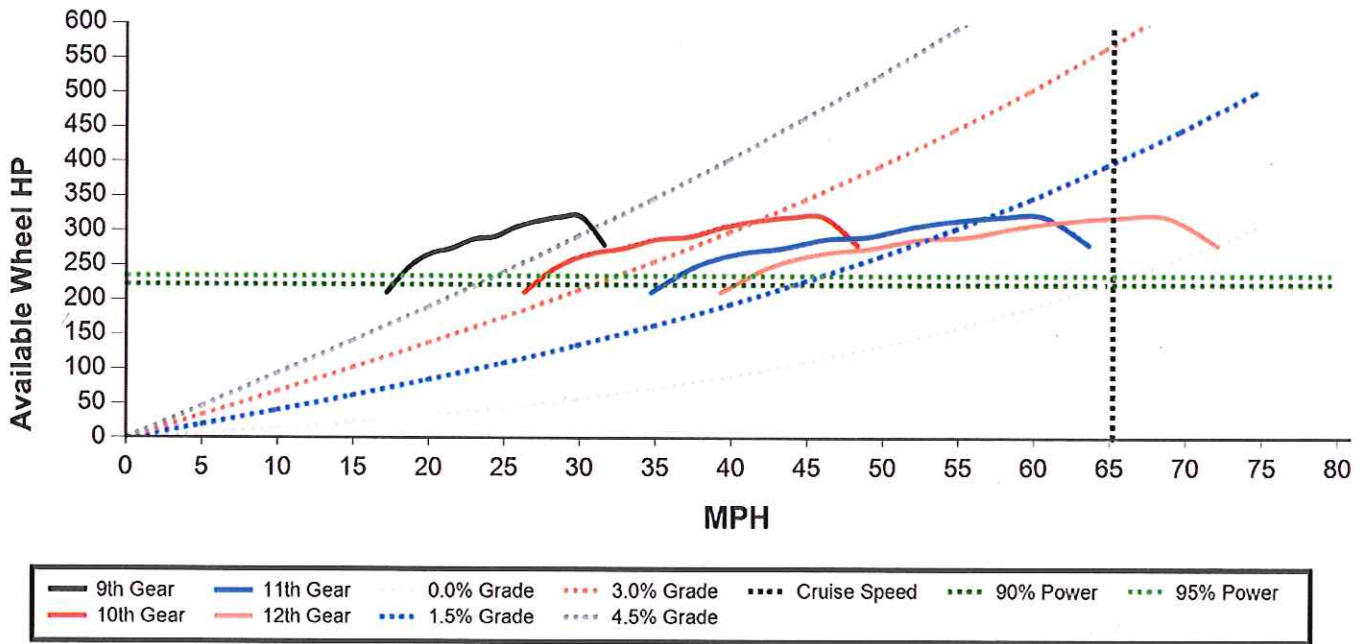




Shift Chart

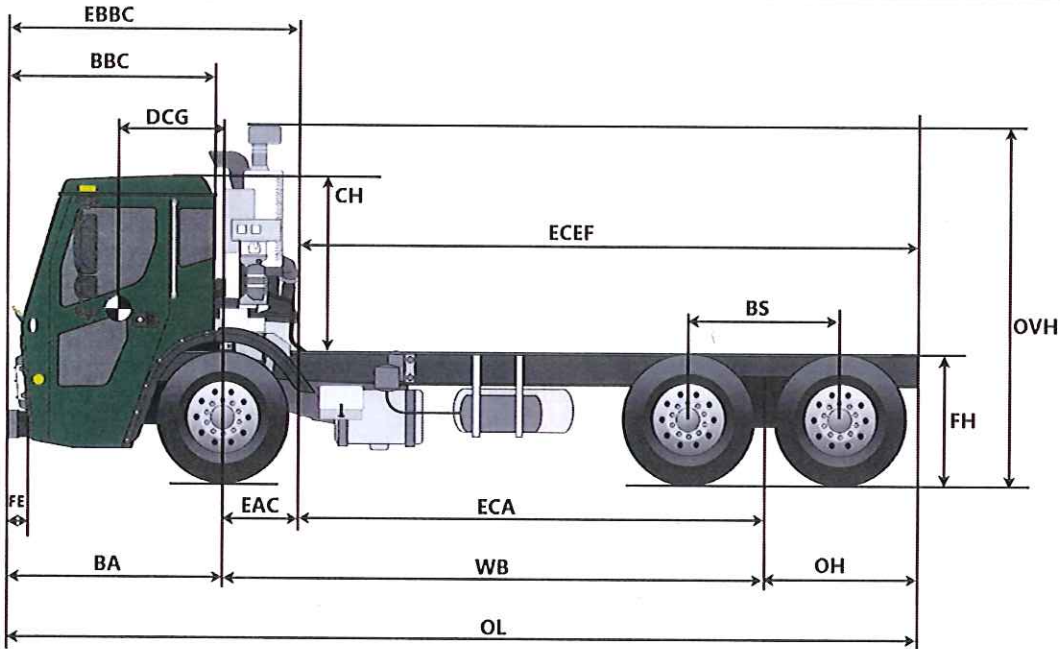


Horsepower VS. Speed



VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY

Description	Sales Code	Dwg Ref	Length	UOM
Front Frame Extension	N/A	FE	0.0	INCHES
Bumper to Front Axle	N/A	BA	69.9	INCHES
Wheelbase	N/A	WB	210.0	INCHES
Rear Overhang	N/A	OH	66.9	INCHES
Overall Length	N/A	OL	346.9	INCHES
Bumper to Back of Cab	N/A	BBC	64.6	INCHES
Eff. Bumper to Back of Cab	N/A	EBBC	94.6	INCHES
Eff. Cab to Rear Axle	N/A	ECA	185.3	INCHES
Eff. Front Axle to Back of Cab	N/A	EAC	24.7	INCHES
Eff. Cab to End of Frame	N/A	ECEF	252.2	INCHES
Unladen 5th Wheel Height	AAX29X	5W	0.0	INCHES
Unladen Frame Height	N/A	FH	43.9	INCHES
Cab Height	N/A	CH	56.1	INCHES
Overall Height	N/A	OVH	100.0	INCHES
Driver CG	N/A	DCG	13.8	INCHES
50" AXLE SPACING (BOGIE WHEELBASE)	GWXABX	BS	50.0	INCHES
Second Front Axle Spacing		SFAS	0.0	INCHES

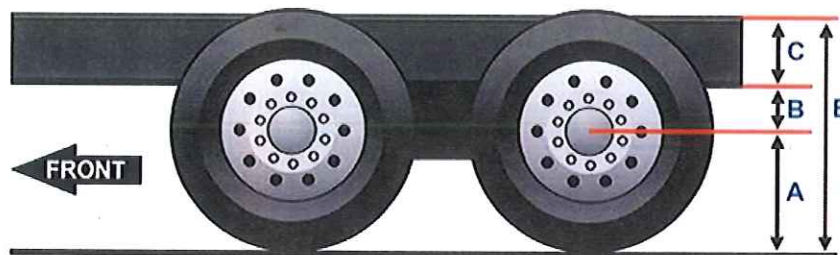




This specification contains options which affect the accuracy of Top View and its calculations. An Image is NOT available due to the following selections:
6WAC1X

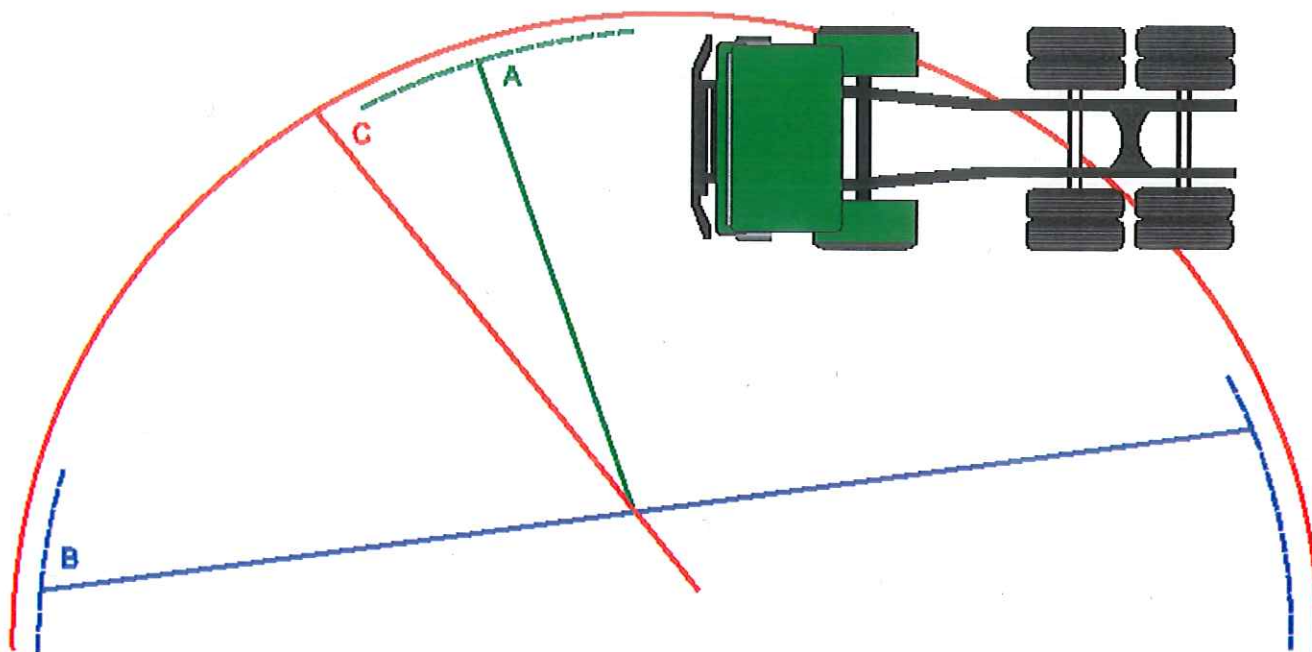
VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY

Description	Sales Code	Dwg Ref	Rear		
			Unladen	Laden	UOM
Requested Fifth Wheel Height	AAX29X		0.0	0.0	INCHES
Tire Radius	901BG3	A	21.5	20.0	INCHES
Suspension Height	1860K6	B	11.7	8.7	INCHES
Frame Depth	YBXJ1X	C	10.8	10.8	INCHES
Closest Available Fifth Wheel Leg Height	N/A	D	0.0	0.0	INCHES
Total Height	N/A	E	43.9	39.4	INCHES



VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY

Description	Sales Code	Dwg Ref	Length	UOM
SAE Turning Radius	N/A	A*	36.6	FEET
Adjusted Turning Radius	N/A	A	40.6	FEET
Curb-to-Curb Diameter	N/A	B	82.5	FEET
Wall-to-Wall Diameter	N/A	C	93.1	FEET



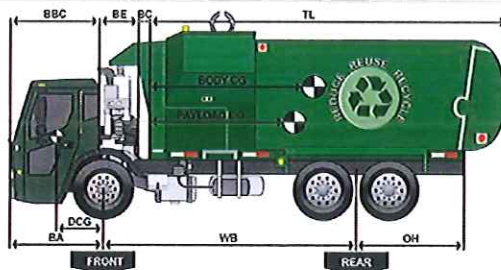
Tests have shown that the true location of the turning center is further to the rear than midway between drive axle sets (where applicable)

The actual location of the turning center depends on:

- Whether the drive tire equipment is single or dual.
- The overall load distribution for the vehicle (front/rear, between drive axles) in a loaded condition
- Manufacturing tolerances within the steering components

Inputs Required	Inputs	UOM
Driver Weight	201	LB
Total Body Length	16.4	FEET
Body Tare Weight	3501	LB
Front of Body to Body CG	96.0	INCHES
Additional Clearance from Back of Exhaust to Front of Body	6.0	INCHES

VEHICLE SPECIFICATION SUMMARY				
Description	Description	Dwg Ref	Length	UOM
Bumper to Front Axle	N/A	BA	69.9	INCHES
Wheelbase	N/A	WB	210.0	INCHES
Rear Overhang	N/A	OH	66.9	INCHES
Bumper to Back of Cab	N/A	BBC	64.6	INCHES
BOC Exhaust Space	DPFAB3	N/A	30.0	INCHES
Driver CG from Front Axle	N/A	DCG	13.8	INCHES
First Pusher Axle Spacing			0.0	INCHES



CALCULATED PERFORMANCE SUMMARY				
Tare Weights	Front Axle	Rear Axle (s)	Total	UOM
Chassis	11407	7708	19115	LB
Driver	188	14	201	LB
Fuel	0	0	0	LB
Body/Trailer	1388	2114	3501	LB
Total Tare	12983	9834	22816	LB
Payloads				
First Body Payload	17120	26065	43185	LB
Total - Lift Axles Down	30103	35898	66000	LB
GAWR	20000	46001	66000	LB



VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY

Sub-Category	Sales Code	Sales Code Description	Value	UOM
Front Axle	240AA3	20000# (9100 KG) MACK FXL20 WIDE PIVOT CENTER STRAIGHT SPINDLE/UNITIZED BEARINGS	20000	LB
Front Suspension	244AB4	MACK TAPERLEAF 20000# (9100 KG) GROUND LOAD RATING, EQUAL BIAS	20000	LB
Front Tires	900AW4	425/65R22.5 L MICHELIN XZY3 (22800 lbs)	22801	LB
Front Wheels	5313S1	22.5x12.25 ACCURIDE BLACK POWDER COAT STEEL, 4.63" OFFSET, 5 HAND HOLE	22995	LB
		Front GAWR	20000	LB
Rear Axle	268AA9	46000# (20900kg) MACK S462R CAST DUCTILE HOUSING	46001	LB
Rear Suspension	1860K6	SS46 MACK CAMELBACK MULTILEAF 46,000 lb, HEAVY DUTY	46001	LB
Rear Tires	901BG3	12R22.5 H MICHELIN XDN2 (27120 lbs) (DRIVE ONLY)	54241	LB
Rear Wheels	3464B6	22.5x8.25 ACCURIDE HEAVY DUTY BLACK POWDER COAT STEEL, 6.62" OFFSET, 2 HAND HOLE	64001	LB
		Rear GAWR	46001	LB
		Truck GWR	66000	LB
		Gross Combination Weight Rating	0	LB
		Tax Value GWR (USA FET Only)	66000	LB



Mack Trucks
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