



Vendor _____

Landfill Compactor Specifications

The supplier shall complete every item in the specifications with either a check mark (✓) to indicate the item being quoted is exactly as specified or a description to indicate any deviations of item being quoted from the specifications.

Supplier may quote alternate specification items with an explanation.

PART I – GENERAL

1. INTENT

It is the intention of these specifications to cover the furnishing and delivery of (1) landfill compactor meeting the requirements set forth hereinafter. It shall be of such design and construction as to meet the general and special requirements. Any parts or units not specifically mentioned, and which are necessary to form a complete working unit shall be furnished by the successful supplier.

2. USE

The landfill compactor will be operated by Cedar Rapids Linn County Solid Waste Agency (Agency) for the handling and compaction of materials commonly disposed of in sanitary landfills and other purposes for which the equipment is designed. The unit must be capable of pushing and spreading full blade loads of waste up a 3:1 slope.

3. SERVICE FACILITY

Each supplier shall have a well-equipped shop and field service facility located within fifty (50) miles of the Agency, including the services of a factory-trained serviceperson equipped with a field service truck and shall retain parts and service for the landfill compactor for as long as the Agency has this equipment.

4. AVAILABLE INFORMATION

The Agency is not responsible for locating or securing any information that is not included in the proposal. Accordingly, to ensure that sufficient information is available, the bidder must furnish as part of the proposal ALL descriptive material (such as illustrations, drawings, specifications, manufacturer information, service facility information or other information) necessary for the Agency to:

- a. Determine whether the equipment offered meets the salient characteristic requirements of the proposal.
- b. Establish exactly what the bidder proposes to furnish and what the Agency would be binding itself to purchase in making an award.
- c. Determine the level and quality of the service facility.
- d. Determine air emissions for the diesel engine.
- e. Determine equipment production range, including compaction ability.
- f. Determine the wheel/teeth guarantee (clogging and wear) for applicability in the Agency's work environment.
- g. Failure to furnish adequate data for evaluation with your proposal may be cause for rejection of the proposal.

5. EXAMINATION

Prior to unit acceptance, the unit may be examined for compliance with contract requirements. Any non-conformance may be cause for rejection.



Vendor _____

Landfill Compactor Specifications

6. **PROPOSAL EVALUATION**

The Agency requests to have submitted a proposal that considers an equipment trade-in. The Agency reserves the right of refusal of the trade-in offer. The Agency may select a piece of equipment other than the lowest proposal and selection shall be made of the proposal that is in the best interest of the Agency. Consideration shall be given to features of each landfill compactor and service available in addition to proposal price.

7. **PROPOSAL REJECTION**

The Agency Board reserves the right to accept or reject any or all proposals to accept any one or more items of a proposal, or to waive any irregularities or informalities in the proposals or the bidding and may re-advertise for such upon any conditions or for any reasons deemed appropriate by said Board.

PART II – DETAILED TECHNICAL PROVISIONS

1. **GENERAL DESCRIPTION**

- a. The unit shall be a new, current year manufacture landfill compactor that is the manufacturer's latest design and production, complete, serviced, and ready for work including all standard equipment.
- b. The complete unit must meet Federal and State of Iowa OSHA safety regulations and air quality emission regulations.
- c. The unit shall be able to achieve 1500 lbs/cy refuse compaction under normal operating conditions. Any studies to substantiate compaction claims shall be submitted with the proposal.

Bidder shall complete every item in the specifications with either a check mark to indicate the item being quoted is exactly as specified, or a description to indicate any deviations of item being quoted from the specifications in the comments section.

YEAR/MAKE/MODEL _____

YEAR MODEL BEGAN PRODUCTION _____

SIZE

- a. The unit must be equipped per the following specifications – Minimum operating weight with ROPs and cab shall be at least 87,000 lbs. No ballasting permitted. Y___ N___

Additional Comments:



living. together. green

Vendor _____

Landfill Compactor Specifications

OPERATORS STATION/CAB

- a. Station shall be SAE ROPS/FOPS certified with roll-over protective structure meeting specifications of OSHA regulations. Y__ N__
- b. The cab shall be of all-weather construction with heater, defroster, dome-light, rear view mirror, windshield wipers with washer (front and rear) with lockable cab doors. Y__ N__
- c. The cab shall be pressurized, sound insulated with air conditioning. The cab shall meet OSHA requirements for sound exposure limits. Y__ N__
- d. The unit shall have lower cab glass guards. Y__ N__
- e. Cab shall have tinted and bonded, flat laminated safety glass that is readily available and installable by an automotive glass company. Y__ N__
- f. The unit shall be equipped with adjustable air ride seat and seat-belt. Y__ N__
- g. Steering, direction and blade control shall be by ergonomic hand operated "joy-stick" controls. Y__ N__
- h. Gauges for fuel level, engine coolant, hydraulic oil, torque converter oil temperature, tachometer and speedometer shall be available as well as alerts for air inlet temperature, brake oil pressure, electrical system low voltage, engine oil pressure, engine over-speed, fuel pressure, hydraulic oil filter status, parking brake status and transmission filter status. Y__ N__
- i. The unit shall include an AM/FM radio with weather band with roof mounted antenna and speakers. Y__ N__
- j. The unit shall provide a twenty (20) amp, twelve-volt negative ground power source for a two-way radio. Y__ N__
- k. The unit must have a color rear view camera/monitor. Y__ N__
- l. The unit must have a cab air filtration system. Y__ N__

Additional Comments:

FRAME

- a. The frame shall be of all heavy steel plate and rolled box section construction. Y__ N__
- b. The frame shall be provided with hydraulically actuated belly pans of adequate thickness, bolted and/or hinged to the frame. Y__ N__



Vendor _____

Landfill Compactor Specifications

- c. Easily removable access openings shall be fitted with a cover to completely close the opening during unit operation Y___ N___
- d. Clearance between the belly pan and the ground shall be not less than 24 inches (24"). Y___ N___
- e. Cab access steps shall be constructed of steel plate. Protruding steps shall be heavy duty steel plate construction and shall have sides enclosed with steel plate. Round or bar stock construction is not acceptable. Y___ N___

Additional Comments:

ENGINE

- a. Shall be diesel-powered with a minimum of 405 net horsepower/435 gross horsepower, rated at 1800 rpm. Y___ N___
- b. Shall be equipped with safety warning devices and auto shut down for high temperature and low oil pressure. Y___ N___
- c. Cold weather starting device shall be mounted on the unit for aid in starting during cold weather. Y___ N___
- d. Equipped with an integral engine coolant heater for an 110v AC source. Y___ N___
- e. Equipped with dry type, two-stage air cleaner with Sy-Klone two-stage turbine pre-cleaner system. Y___ N___
- f. Shall have hour service meter. Y___ N___
- g. Equipped with pressurized oil sample port to allow live oil sampling. Y___ N___
- h. The engine shall be EPA TIER IV compliant and shall meet all current Federal and State of Iowa Emissions standards. Y___ N___
- i. All heat exchangers and radiators shall be trash specific with a heavy-duty open core design. No tools shall be required to access for inspection and cleaning. Y___ N___
- j. The exhaust components, including the muffler, exhaust manifold, tubing and turbo shall be isolated or insulated from burnable debris which may enter the engine compartment. Y___ N___
- k. Machine shall be equipped with an on-demand, hydraulic driven reversible fan with automatic timer and manual control. Y___ N___
- l. Machine shall be equipped with large capacity, trash specific coolers for engine, hydraulic and transmission oils. Y___ N___



living. together. green

Vendor _____

Landfill Compactor Specifications

Additional Comments:

TRANSMISSION

- a. The drive transmission shall be automatic hydrostatic drive or power-shift with torque converter. Y___ N___
- b. Shall have a minimum of two (2) speeds forward and reverse with full power shifting capabilities. Y___ N___
- c. Maximum low speed range shall be no slower than 3.7 mph in forward or 4.6 mph in reverse. Maximum high-speed range shall be no slower than 6.6 mph in forward or 7.6 mph in reverse. Y___ N___
- d. The drive transmission shall be capable of internally absorbing normal forward-reverse shift sequence. Y___ N___
- e. The unit shall be equipped with a pressurized oil sample port to allow live oil sampling. Y___ N___

Additional Comments:

STEERING

- a. The unit shall be of center point frame articulated design. Y___ N___
- b. The unit shall be equipped with center pivot-pin guarding with abrasion resistant material hard facing or equivalent to minimize exposure of lower-pivot pin to excessive wear. Y___ N___
- c. Hydraulically actuated with two (2) double acting steering cylinders with spherical ends. Y___ N___
- d. Full hydraulic, flow filtered with pressure relief protection system. Y___ N___

Additional Comments:



living. together. green

Vendor _____

Landfill Compactor Specifications

FINAL DRIVE

- a. Unit shall be equipped with a planetary reduction drive or hydrostatic drive system. Y___ N___
b. Unit shall have rear No-SPIN differential standard with front No-SPIN. Y___ N___
c. The unit shall be equipped with final drive guards to protect the seals against damage caused by refuse. Y___ N___

Additional Comments:

BRAKES

- a. Heavy-duty service brake or hydrostatic dynamic braking, foot or hand controlled. Y___ N___
b. Spring applied, air (or hydraulic) released parking brake. Y___ N___

Additional Comments:

WHEELS

- a. Unit shall have four (4) wheels of all steel construction or working equivalent. Y___ N___
b. Outer drums shall be a minimum of one-inch (1") in thickness. Y___ N___
c. Wheels shall have one-inch (1") wide wear bars welded to the inside wheel cone at six (6) locations (min.) per wheel to protect the cone surface. Bars shall be uniformly spaced and run from the inside diameter to the outside diameter of the inside wheel cone. ARM hard-facing of equal width is an acceptable substitute. Y___ N___
d. Axle seals to be protected by additional guarding to minimize accumulation and axle wrap of wire and other types of debris. Y___ N___
e. Machine manufacturer shall provide cleats/tips that are designed to complement tendered machine performance and resist plugging. Y___ N___

*The Agency reserves the right to negotiate any changes in cleat/tip design.

Additional Comments:



living. together. green

Vendor _____

Landfill Compactor Specifications

BLADE

- a. The blade shall be a "Straight Blade" design capable of spreading cover material and push refuse. Size and capacity shall be the largest available for the machine. Y___ N___
- b. Blade shall be a landfill design with a full width trash screen at top. Trash screen shall allow maximum vision for the operator. Screen shall be heavy-duty bar-stock construction. Y___ N___
- c. Capable of hydraulic raise, lower, and float with automatic blade positioner. Y___ N___
- d. Equipped with a replaceable cutting edge and end bits. Y___ N___
- e. Equipped with two (2) heavy-duty tow hooks attached at back of blade near bottom of trash screen. Tow hooks shall be accessible from front of machine. Y___ N___
- f. The hydraulic cylinders and plumbing shall be mounted and/or protected by heavy steel plate guarding in such manner as to be protected from damage due to refuse. Y___ N___
- g. Blade shall have the following minimum size specifications:
 - Blade Width.....14 feet Y___ N___
 - Blade Height w/trash screen.....6 feet Y___ N___
 - Ground Clearance.....37.8 inches Y___ N___

Additional Comments:

ENGINE COMPARTMENT

- a. The engine compartment shall be completely enclosed with heavy duty side screens and/or perforated hood to prevent entry of trash, but allow free entry of air for the engine fan. Y___ N___
- b. All gaps between adjacent panels shall be completely sealed to prevent the entry of all debris. Y___ N___
- c. Enclosure hood, or access panels, shall be hinged to allow free entry of personnel for service and maintenance reasons. Y___ N___
- d. Equipped with heavy-duty radiator protective grills, hinged to allow free access for maintenance. Y___ N___

Additional Comments:



living. together. green

Vendor _____

Landfill Compactor Specifications

COOLING SYSTEM

- a. The radiator shall be a pressurized liquid cooling system with thermostat. Y___ N___
- b. The system shall have overall engine cooling capacity such that to allow the unit to be normally operated in an ambient temperature of 120 degrees Fahrenheit. The bidder shall note if additional fan blades or fan speed are required to perform at this ambient temperature. Y___ N___
- c. Radiator shall be filled with manufacturer's approved extended life anti-freeze solution that provides protection to at least -30 degrees Fahrenheit. Y___ N___
- d. Radiator shall be a large capacity wide-spaced fin design with inline tubes. Shall be a style that is most effective in a landfill environment. Y___ N___
- e. The engine fan shall be of the blower type airflow design. Y___ N___
- f. Shall be equipped with a automatic timed & manual reversing fan. Y___ N___

Additional Comments:

HYDRAULIC SYSTEM

- a. Hydraulic pump shall have sufficient pump capacity and provide oil cooling to allow the Compactor to be normally operated in an ambient temperature of 120 degrees Fahrenheit. Y___ N___
- b. The unit shall be equipped with a sight gauge for checking the hydraulic fluid level. Y___ N___
- c. Equipped with pressurized oil sample port to allow live oil sampling. Y___ N___
- d. A single lever control shall hydraulically control all blade functions; raise lower, hold and float. Y___ N___
- e. Hydraulic controls capable of picking up and setting down a standard tarp machine. Y___ N___

Additional Comments:

ELECTRICAL

- a. The complete electrical system shall be twenty-four (24) volt. Y___ N___
- b. All electrical circuits shall be protected with circuit breakers or spade style fuses. Y___ N___



living. together. green

Vendor _____

Landfill Compactor Specifications

- c. Equipped with heavy-duty one-hundred (100) amp alternator and heavy-duty batteries. Y___ N___
- d. Equipped with battery disconnect switch. Y___ N___
- e. Equipped with an external, emergency start system assembly compatible with Agency current style. Y___ N___

Additional Comments:

INSTRUMENTATION

- a. Unit shall be equipped with all standard and optional gauges, including at least: transmission temperature, engine coolant temperature, engine oil pressure, fuel, electric voltage, and electric hour meter. Y___ N___
- b. Unit shall be equipped with air-cleaner service indicator. Y___ N___

Additional Comments:

PAINTING

- a. All portions of the Landfill Compactor that would normally be painted shall be painted in accordance with good commercial practice. Y___ N___
- b. The hood, blade cylinders, and back of blade shall be painted black to reduce glare. Y___ N___
- c. The color shall be the manufacturer's standard color. Y___ N___

Additional Comments:

FIRE EXTINGUISHER SYSTEM

- a. An additional five (5) pound dry chemical type fire extinguisher shall be mounted in the cab. Y___ N___
- b. The system shall be capable of being serviced locally. Y___ N___



living. together. green

Vendor _____

Landfill Compactor Specifications

Additional Comments:

OPERATING LIGHTS

- a. The unit shall be provided with at least eight (8) halogen lights; four (4) front and four (4) rear, all cab mounted. Y___ N___
- b. Lights shall be adequate size for night operation and provided with adequate protection to physical damage. Y___ N___
- c. The unit shall have a light warning unstitched LED strobe. Y___ N___

Additional Comments:

PERIODIC MAINTENANCE CHART

- a. Unit shall have permanently affixed charts/diagrams that describe the machine periodic maintenance locations and requirements. Y___ N___

Additional Comments:

ADDITIONAL MACHINE REQUIREMENTS

- a. Unit shall be equipped with all standard equipment and shall include: back-up alarm, halogen front and rear lights, emergency starting receptacle, maintenance free batteries, exhaust muffler, vandalism protection, warning horns, front and rear tow hooks, and environmental fluid drains. Shall have safety tread plate or tape on all walking surfaces. Y___ N___
- b. All safety placards and decals shall be affixed at the operator's station(s) and all hazardous locations as required by applicable regulations. Y___ N___
- c. The unit shall have ground-level access to all grease lubrication points. Additional lubrication line extensions shall be added to prevent climbing on/over equipment to access lubrication points. All scheduled maintenance points shall be well within reach and ground level. Y___ N___
- d. Unit shall include rear tow pin. Y___ N___

Additional Comments:



Vendor _____

Landfill Compactor Specifications

PART III – BID PROPOSAL

REPAIR PARTS AND SERVICE

Since the continuous operation of this Landfill Compactor is of the utmost importance and sometimes of an emergency nature, it is necessary that the successful bidder be in a position to render prompt parts and service. The successful bidder shall maintain and/or have access to a parts inventory. Said parts inventory shall be of sufficient size and variety to offer parts availability within 24 hours from time of order by the Agency. Availability of normal maintenance items such as hydraulic lines and hoses shall not exceed 24 hours. **Filters and v-belts shall be stocked for immediate availability.**

Bidders shall attach for evaluation their respective program proposed, including any parts supply guarantees, for parts and service availability. Review of the bidder's ability to provide prompt parts and service will be used in determining a qualified bidder.

REPAIR LOCATION

All repairs are to be made at Agency's shop, field location of Landfill Compactor, or at other service locations agreeable to both Agency and the successful bidder.

EQUIPMENT MAINTENANCE

The Agency will maintain the equipment in accordance with the manufacturer's shop manual for the maintenance and repair of the Landfill Compactor. The successful bidder has the right to inspect the equipment during normal Agency working hours to verify the shop manual is being followed.

SERVICE HOURS

All references to engine service meter hours shall come from the hour meter.

DELIVERY

The landfill compactor shall be delivered 60 days from notice of award if possible. Vendor must include a guaranteed delivery date.

EQUIPMENT TRADE – IN

The Agency shall have available for trade a 2006 Terex Trashmaster, 3-90E, GJ440. The bidder shall be responsible for the transportation of the trade-in equipment. The unit may be examined at the Agency landfill located at 1954 County Home Road, Marion IA 52302 during regular business hours Monday thru Friday from 7:00 AM to 4:00 PM.

The Agency reserves the right of refusal of the trade – in.

TRAINING

Successful bidder shall provide not less than ten (10) hours of on-site operator and/or preventative maintenance training specific to the machine. At a minimum, this shall include review of factory operator and maintenance manual.

Successful bidder shall schedule training with Agency Environmental Health and Safety manager and provide materials to the Agency. Training shall be done by a factory-trained and authorized serviceperson who has been schooled in the particular model.

MANUALS

One (1) set each, digital and hard copy, of the following manuals: operators, parts, repair/service, and lubrication manuals, including wiring diagrams and hydraulic schematics. Manuals shall be sufficient for mechanic diagnosis and repair of



Vendor _____

Landfill Compactor Specifications

machine and accessories.

STANDARD WARRANTY

The standard warranty shall be at least twelve (12) months or 2,500 hours, whichever occurs first, on the entire machine.

This standard warranty shall cover all costs of machine repair, parts, labor and transportation. Bidder shall attach a copy of the proposed standard warranty.

Additional Comments:

EXTENDED WARRANTY OPTION

The warranty shall be at least five (5) years or 10,000 hours. Bidder shall attach copy of the proposed extended warranty coverage.

FIRE SUPPRESSION SYSTEM OPTION

The supplier shall provide a quote for the addition of an integral dry chemical fire suppression system for extinguishing class A, B and C fires.

PROPOSAL SUBMITTAL

Submit one (1) original and two (2) copies of proposal on the furnished bid forms and summary sheet.

Submit proposal filled out in ink or printed, without erasure or changes.

Sealed proposals will be received at the Agency Main Office up to, but no later than **1:30 PM, Central Time, Wednesday, January 24, 2018** in accordance with the specifications attached and the other terms and conditions set forth herein at the below address:

Cedar Rapids Linn County Solid Waste Agency
1954 County Home Road
Marion, Iowa 52302
Attn: Brooke Butler

AGENCY CONTACT

All questions regarding this request for quote shall be submitted in writing to Brooke Butler, Director of Operations at bbutler@solidwasteagency.org.

All submitted questions and responses will be posted on the Agency website.