

INVITATION TO BID

Office of the Carter County Finance Department

801 E Elk Avenue
Elizabethton, TN 37643

Bidder shall return bid in **sealed envelope** to:

**Carter County Finance Department
Attn: Carter County Recycle Baler and Conveyor Bid 2021
801 E Elk Avenue
Elizabethton, TN 37643**

Public opening of the bid will be held at the above address at the bid deadline date and time designated in the Invitation to Bid

DATE ISSUED:	Thursday, January 8, 2020
BID TITLE:	Carter County Recycle Baler and Conveyor Bid 2021
BID DEADLINE DATE & TIME:	Thursday, January 21, 2021 at 2:00 p.m. Eastern Time (local prevailing time)
BID OPENING LOCATION:	Carter County Courthouse – Mayors Conference Room 2 nd Floor, Administrative Building
BID CONTACT:	Benny Lyons
CONTACT PHONE:	(423) 384-6872
CONTACT EMAIL:	lyonsb@cartercountyttn.gov

Carter County reserves the right to reject any and all bids, maintains the right to negotiate after bid and waive any informalities.

Carter County does not discriminate based on race, color, national origin or age pursuant to Title VI of the Civil Rights Act of 1964.

TERMS AND CONDITIONS

1	<p>REQUIREMENTS FOR BID SUBMISSION.</p> <ul style="list-style-type: none">a. All bids must be received in a SEALED envelope clearly marked with the bid name, date, and time ON THE OUTSIDE OF THE SEALED ENVELOPE.b. All bid specifications must be metc. Vendor Information and Anti-Collusion Statementd. Vendor Certification Iran Divestment Acte. Drug-Free Workplace Affidavit Formf. Copy of Vendor’s IRS W-9 Formg. Proof of Liability Insurance and Licenseh. Proof of Worker Compensation Insurancei. Contact Benny Lyons by email: lyonsb@cartercountyttn.gov or by phone: (423)384-6872 to schedule a visit or with questions.
---	---

Specifications: Carter County Recycle Baler and Conveyor Bid 2021

Carter County Property Address

Carter County Recycle Center
410 Cherokee Park Drive
Elizabethton, TN 37643

General Specifications for Baler

Bale Size	46 in. wide X 31 in. high X 61 in. long
Bale Volume	50 cubic feet expanded (approximate)
Cycle Time	21.5 seconds (No Load)
Capacity	7,000 cubic feet per hour (no load)
Hopper Opening (Top)	40 3/8 in. X 60 in.
Charge Box Opening	41 in. X 60 in.
Strapper	Automatic wire tie system
Non-ferrous liners	Main frame floor and ram
Approximate Shipping Weight	23 tons

Baling Material Specifications

Baler must be able to process the following materials:

- Bulk OCC
- Solid Waste
- Newsprint
- Whole Aluminum Cans
- Steel Cans
- Plastic
- Non-Ferrous
- High-Density Polyethylene (HDPE)

Hydraulics/Baler

Main Pumps	60 GPM
Circulation Pump	30 GPM
Strapper Pump	12 GPM
System Pressure	3500 psi
Main Cylinder	8 in. bore, 5.5 in. rod, 92 in. stroke 88 tons of force, 60% ram penetration
Main Ram Face Pressure	145 psi
Ejector Cylinder	7 in. bore, 5 in. rod, 72 in. stroke 67 tons of force
Ejector Ram Face Pressure	84 psi
Oil Reservoir	160 gallon capacity (Standard HP)
Oil Cooler	Air-to-Oil Thermostatically Controlled
Oil Heater	1 KW Thermostatically Controlled
Filtration	5 micron

Specifications: Carter County Recycle Baler and Conveyor Bid 2021 (continued)

Hydraulics Power Unit/Baler

Motors	Main (1) 40HP 460/3/60, 1750 RPM, TEFC Cooling Fan (1) HP 460/3/60, 1725 RPM, TEFC Main (1) 29.8kW 460/3/60, 1750 RPM, TEFC Cooling Fan (1) 0.75kW 460/3/60, 1725 RPM, TEFC Main (1) 29.8kW 415/3/50, 1450 RPM, TEFC Cooling Fan (1) 0.75kW 415/3/50, 1450 RPM, TEFC
Starters	Across-the-line motor starters with overload protection. Reduced voltage starting must be available.
Location	Standard power unit location over the main cylinder. Must have optional power unit locations available.

Electrical Functions/Baler

	Automatic or manual baling cycles. Pushbuttons and joystick mounted on operator console. Self-diagnostics display. Multiple baling and strapping modes.
Controls	UL and CUL listed Operator Interface Terminal (OIT), 20 material selection and setup with 10" color touch screen display/phone modem. Solid-state programmable controller with operator console.
PLC Logic	AB-RS500 Software, Micrologix Hardware
Location	Operator control console mounted over compression chamber.
Enclosures	NEMA 12 rated MCP, NEMA 1 rated OCS
Photo Eyes	Adjustable Multi-level material control
Conveyor Controls	(1) 10 HP (Standard) 1 7.46kW (Standard)

Specifications: Carter County Recycle Baler and Conveyor Bid 2021 (continued)

Construction/Baler

Main Frame and Compression Chamber Constructed of heavy steel plate and reinforcing ribs. Wear surfaces are replaceable abrasion resistant plates. Back wall is reinforced solid steel plate. Flooring constructed of tongue and groove abrasion-resistant wear plates.

Rams Both the gathering and eject rams are heavy steel weldments with abrasion-resistant liner plates.

Piping ASTM A-106 Schedule 160

Fixed Knife Smart-knife adjusting system. No shims required.

Tying Unit/Baler

Model Number Accent wire tie system 470 series

Testing/Baler

Factory Test Machine must be fully assembled and tested prior to shipping.

Startup Service/Baler

Qualified startup technicians available to setup.

Baler Installation (Seller to Provide)

Hydraulic Oil Approximately 200 Gallons

Unloading Equipment Personnel, equipment, and tools required to unload, assemble, and install baler. Spreader bars are required for lifting equipment.

Wire Correct wire for strapping.

Maintenance Tools and spare parts for performing maintenance, adjustments, and troubleshooting.

Specifications: Carter County Recycle Baler and Conveyor Bid 2021 (continued)

Frame/Conveyor

Open, structural steel construction, completely shop fitted and welded
25# ASCE upper load carrying track
4" X 3" X 3/8" return track with 1/2" wear strip
AR500 wear plate curve track
Expanded metal side covers
Inspection panels-bolted construction
Electric feed chain oil - drip type - 120V solenoid

Dimensions/Conveyor

Belt Width 60"
Infeed Height Top of belt 12" below grade pit mounted
Discharge Height Bottom of frame 159" above grade

Conveyor Path

D-style with 50' lower horizontal, 24' incline section at 35 degrees, 3' upper horizontal

Belting/Conveyor

9" pitch
1/4" thick precision die formed hinge pans - plain
1/4" X 4" high precision formed interlocking side wings
1/4" X 2" precision die formed side bars
Solid bushings, hardened RC50-60 press fit into sidebars
3" diameter single flange rollers
3/4" diameter thru pin
.970 OD X .780 ID 1008 tubing
Cotter pin locking style

Conveyor:

Cleats Angle, 4" high on 63" centers
Sprocket 9" pitch, 6 tooth 18" PD flame cut hardened steel
Drive 10 Hp, 460 volt 3 phase
Speed 30 feet per minute fixed
Live Load Capacity 5,978#
Safety Features Shear pin hub assembly, anti-rollback device
Supports Mounted to provide heights
Guarding Supplied in areas of personnel access up to 8'0"
Side Skirts 24" high lower curve through discharge
2 Load Impact Beams Limits deflection of belt
Auto-Oiler
Installation Conveyor and Conveyor Plates

VENDOR INFORMATION and ANTI-COLLUSION STATEMENT

Please print or type clearly. Complete each section entirely and verify for accuracy.

By signing this form the bidder agrees that he has not divulged to, discussed, or compared his bid with other bidders and has not colluded with any other bidder or parties to a bid whatsoever. Note: no premiums, rebates or gratuities to any employee or agent are permitted with, prior to, or after any delivery of materials. Any such violation will result in the cancellation and/or return of material (as applicable) and the removal from the bid list and could constitute a felony and result in a fine, imprisonment, as well as civil damages.

In compliance with this Invitation for Bid, and subject to all the conditions thereof, the undersigned offers, if this bid is accepted, to furnish any or all of the items and/or services upon which prices are quoted, at the price set opposite each item, to be delivered at the time and place specified herein. The undersigned certifies that he/she has read, understands, and agrees to all terms, conditions, and requirements of this bid, and is authorized to contract on behalf of the firm named below. This form must be signed personally by the bidder or the bidder's authorized agent. All signatures must be original and not photocopies.

COMPANY NAME:	
CONTACT PERSON:	
CONTACT PERSON TITLE:	
SIGNATURE OF AUTHORIZED REPRESENTATIVE:	
FEDERAL TAX ID # (or Social Security #, if applicable)	
STREET ADDRESS:	
STREET ADDRESS:	
CITY, STATE, ZIP:	
TELEPHONE NUMBER:	
FAX NUMBER:	
EMAIL:	
DATE:	

**By signing this form, the bidder signifies understanding and agreement with Carter County Government Terms and Condition

BIDDER'S CERTIFICATION OF COMPLIANCE
WITH
IRAN DIVESTMENT ACT
Tenn. Code Ann. § 12-12-101 et seq.

Comes _____, for and on behalf of
(Printed name of Principal Officer of Company)

_____, (the "Company") and, after being duly authorized
by the Company so to do, makes oath that:

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to the Iran Divestment Act, Tenn. Code Ann. § 12-12-106.

Signature

Title

Date