

OFFICE OF THE SULLIVAN COUNTY PURCHASING AGENT

3411 HIGHWAY 126 – SUITE 201  
BLOUNTVILLE, TN 37617-0569

PHONE 423/323-6400

FAX 423/323-7249

**REQUEST FOR PROPOSAL**

**MUST INCLUDE RFP# ON OUTSIDE OF ENVELOPE**

**RFP Name / Number** Front End Loader Recycling/Garbage Truck / #G39651(KD)  
**Due Date / Time** Tuesday, April 5, 2016 / 2:00 p.m.  
**Bid Location / Mail Address** Sullivan County Purchasing Department, Kristinia Davis, Purchasing Agent  
3411 Hwy 126-Suite 201, Blountville, TN 37617  
**Bid Contact / Telephone** Kristinia Davis (423) 323-6400; [kris.davis@sullivancountyttn.gov](mailto:kris.davis@sullivancountyttn.gov)  
**User Department** SANITATION

**THIS REQUEST FOR PROPOSAL (RFP) MUST BE RETURNED IN A SEALED ENVELOPE VIA MAIL, COURIER OR IN PERSON. PHONE, FAX OR ELECTRONIC RESPONSES ARE NOT ACCEPTABLE!** RESPONSES WILL BE ACCEPTED BY THE PURCHASING AGENT ONLY UNTIL THE DAY/TIME DESIGNATED ABOVE, AT WHICH TIME THEY WILL BE PUBLICLY OPENED. RESPONSES MUST **CLEARLY IDENTIFY THE RFP # ON THE OUTSIDE OF THE ENVELOPE**, BE PRESENTED IN ORIGINAL FORMAT, BE COMPLETED IN TOTALITY AND BEAR THE HANDWRITTEN SIGNATURE OF A DULY AUTHORIZED COMPANY REPRESENTATIVE. **LATE RESPONSES WILL NOT BE ACCEPTABLE!**

SUBMISSION OF THIS RFP VERIFIES VENDOR'S ACCEPTANCE OF THE RFPs LANGUAGE, REQUIREMENTS AND THE GENERAL PROCUREMENT TERMS AND CONDITIONS FORM #GPTC1004-14.

*NOTE: IF FORM #GPTC1004-14 IS OMITTED FROM THIS RFP SOLICITATION, WE HAVE THE APPROPRIATE SIGNED DOCUMENTS FROM YOUR COMPANY. IF FORM #GPTC1004-14 IS ENCLOSED WITH THIS RFP SOLICITATION, PLEASE SIGN AND RETURN THE APPROPRIATE PAGES WITH YOUR RFP REPOSE. By submission of this RFP/RFQ, the responding firm certifies compliance with Title VI and Title VII of the Civil Rights of 1964, as amended, and all regulations promulgated thereof.*

ALL RFPs MUST BE OFFERED IN STRICT CONFORMANCE TO ALL LANGUAGE, REQUIREMENTS, TERMS AND CONDITIONS AND SPECIFICATIONS AS SOLICITED. FAILURE TO COMPLY WITH THE RFP PREREQUISITE WILL BE CAUSE TO DISQUALIFY SAME.

UNLESS OTHERWISE DESIGNATED, ALL PRICES OFFERED SHALL BE GUARANTEED FOR A MINIMUM OF SIXTY (60) DAYS FROM OPENING DATE. UNIT PRICES FOR GOODS/SERVICES SHALL BE QUOTED "NET 30 DAYS". EACH LINE ITEM PRICE MUST INCLUDE ALL CHARGES, INCLUDING SHIPPING, HANDLING, FREIGHT OR ANY OTHER COSTS ASSOCIATED TO THE DELIVERY TO THE DESIGNATED SULLIVAN COUNTY LOCATION. SULLIVAN COUNTY **WILL NOT ACCEPT** ADDITIONAL DELIVERY CHARGES AS A SEPARATE LINE ITEM. AWARDS MAY BE DETERMINED PER UNIT (LINE ITEM) AND/OR AS A TOTAL (WHOLE) AWARD; WHICHEVER IS IN THE BEST INTEREST OF SULLIVAN COUNTY. ALL GOODS PROVIDED TO SULLIVAN COUNTY SHALL BE FREE FROM DAMAGE/DEFECTS. GOODS DAMAGED IN TRANSIT BY COMMON CARRIER ARE THE SOLE RESPONSIBILITY OF THE VENDOR, INCLUDING ALL COMMUNICATIONS AND REPLACEMENT ARRANGEMENTS.

IF INFORMATION (SPECIFICATIONS, DATA SHEETS, ANALYSIS, DRAWINGS, ETC.) OR PRODUCT SAMPLES ARE REQUESTED IN THIS RFP, RESPONDING VENDOR MUST ENCLOSE/SUPPLY SAME. FAILURE TO COMPLY WILL BE CAUSE TO DISQUALIFY THE VENDOR FROM AWARD CONSIDERATION.

**THE SULLIVAN COUNTY PURCHASING AGENT HAS THE RIGHT TO ACCEPT, REJECT, AWARD OR CANCEL ANY/ALL QUOTES AND TO WAIVE ANY INFORMALITIES OR IRREGULARITIES, IF SAME IS DEEMED IN THE BEST INTEREST OF SULLIVAN COUNTY. SULLIVAN COUNTY DOES NOT OBLIGATE ITSELF TO ACCEPT THE LOWEST AND/OR ANY QUOTE OFFERED.**

Completion Time \_\_\_\_\_

TERMS: NET 30 DAYS

(NOTE: DELIVERY TIME (DAYS/WEEKS/MONTHS) MUST BE INDICATED ... ASAP IS NOT ACCEPTABLE)

VENDOR: \_\_\_\_\_ REPRESENTATIVE: \_\_\_\_\_  
PLEASE PRINT

PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_ E-MAIL: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

## **GENERAL CONDITIONS**

**RFP# G39651(KD)**

**OPENS: 4/5/16 @ 2:00 P.M.**

**RE: FRONT END LOADER RECYCLING/GARBAGE TRUCK**

**SCOPE:** This specification describes a cab-over style chassis and front loading body to be used in the County's refuse collections.

**GENERAL:** The vehicle furnished in compliance with this specification shall be a new model, or the latest model in current production (as offered to commercial trade), and shall be of good quality as to workmanship. All items listed in the manufacturer's literature as standard equipment shall be furnished. The equipment shall conform to ANSI Safety Standard Z245.1.

**PARTS MANUAL:** The successful bidder shall furnish three (3) operator's manuals, one (1) complete technical manual with schematics, and one (1) complete parts and maintenance manual with each chassis.

**EXCEPTIONS TO SPECIFICATIONS:** All bidders must complete the attached specification sheets and include them as a portion of the bid. The bidder must complete every space with a check mark to indicate if the item being bid is exactly as specified. If not, the "NO" column must be checked and a detailed description of the deviation must be listed on a separate sheet. If no exceptions or deviations are shown, the bidder will be required to furnish material exactly as specified. The burden of proof for compliance with this specification shall be the responsibility of the vendor. Failure to accurately complete and submit this form shall be grounds for rejection.

**WARRANTY:** All bidders must enclose a copy of the warranty on the chassis and the body.

## CHASSIS-CAB SPECIFICATIONS

	<u>YES</u>	<u>NO</u>
<b>A. CAB:</b> New and Unused Forward Control Chassis , Tilt Cab with cab over engine, Color: WHITE, <b>Autocar, Mac (or equal)</b>	_____	_____
<b>B. ENGINE</b>		
1. ISL 05, 350HP @ 2100 RPM /1250 FT. – LBS< Cummins	_____	_____
2. Chassis mounted after cooler in front of 1100 square inch radiator.	_____	_____
3. Silicone engine hoses and tubing, including heater and radiator hoses.	_____	_____
4. Coolant protection to -20°.	_____	_____
5. Dry air filter with restrictor gauge.	_____	_____
6. Vertical exhaust with rain cap.	_____	_____
7. 120V engine block heater, 1500 Watt.	_____	_____
8. Engine protection alarm system with lights and buzzers for high coolant temperature, low oil pressure, low coolant level in radiator.	_____	_____
9. Air cleaner; 15" single element dry type.	_____	_____
10. Front crankshaft adapter for front pump.	_____	_____
<b>C. TRANSMISSION:</b> Allison 4500 RDS, 5 Speed Automatic w/external oil cooler.	_____	_____
<b>D. FRONT AXLE &amp; SUSPENSION</b>		
1. 20,000# capacity I-beam front axle.	_____	_____
2. 20,000# capacity multi-leaf front suspension.	_____	_____
3. TRW Ross Power Steering Gear.	_____	_____
<b>E. REAR TANDEM AXLE &amp; SUSPENSION</b>		
1. 46,000# Arvin Meritor RT46-160P rear axle	_____	_____
2. 46,000# Hendrickson, HN402 anti-sway suspension	_____	_____
3. Transverse and longitudinal torque rods	_____	_____
<b>F. FRAME</b>		
1. Heavy-duty double channel frame, 110,000 PSI, with 1/4" frame reinforcement, 26.06 SM.	_____	_____
2. Front tow pin.	_____	_____
3. Heavy duty WX steel front bumper	_____	_____
4. Front skid plate.	_____	_____
5. 209" WB, 273" Load Platform.	_____	_____
<b>G. BRAKES</b>		
1. Dual Air Brakes, Cam-type Service Brakes with Dual Air Reservoir Tanks with ABS Brakes	_____	_____
2. Spring Loaded Parking Brake.	_____	_____
3. 18.7 CFM Air Compressor.	_____	_____
4. Bendix Heated Air Dryer.	_____	_____
5. Front Brakes - 6" x 16-1/2" Cam-type.	_____	_____
6. Rear Brakes - 7" x 16-1/2" Cam-type.	_____	_____
7. Automatic Front and Rear Slack Adjusters.	_____	_____
8. Raised Rear Brake Chambers.	_____	_____
<b>H. FUEL TANK:</b> Frame-mounted 85 Gallon RH, steel.	_____	_____

	<u>YES</u>	<u>NO</u>
<b>I. ELECTRICAL</b>		
1. 12V Electrical System with blade fuses	_____	_____
2. 145 Amp Alternator.	_____	_____
3. Three (3) Maintenance Free Batteries, 2250 CCA.	_____	_____
4. 12V Starter.	_____	_____
5. Directional Signal Switch.	_____	_____
6. Battery Cut-Off Switch.	_____	_____
<b>J. WHEELS &amp; TIRES</b>		
1. 22.5 x 12.25 front hub piloted disc wheels, Alcoa Aluminum	_____	_____
2. 22.5 x 8.25 rear hub piloted disc wheels.	_____	_____
3. 425/65R22.5 20 Ply tubeless front tires.	_____	_____
4. 11-R-22.5-16PR tubeless rear tires.	_____	_____
<b>K. CAB EQUIPMENT</b>		
1. Welded Steel Shell Cab, Galvanized.	_____	_____
2. Tinted Glass All Around.	_____	_____
3. Stainless Steel West Coast Mirrors with Bright finish 7½" LH and RH Convex Mirrors, Heated.	_____	_____
4. 2-Speed Dual Pandgraphic type Electric Windshield Wipers & Washers with intermittent feature.	_____	_____
5. Twin Trumpet Air Horns.	_____	_____
6. Right Passenger window air or electric.	_____	_____
7. Cab Ladder and Anti-Skid Roof.	_____	_____
8. National Cushion Aire Driver's Seat & Standard Passenger Seat.	_____	_____
9. AM-FM/CD Stereo Radio.	_____	_____
10. Factory Integral Air Conditioning.	_____	_____
11. Refuse Noise Reduction Package.	_____	_____
12. One cylinder, Hydraulic Cab Lift.	_____	_____
13. Full dash instrumentation - Low air buzzer and light, voltmeter, fuel gauge, Oil gauge, Water temperature gauge, speedometer, odometer, tachometer, high beam indicator.	_____	_____
14. Fender Mounted Front Mud Flaps.	_____	_____
15. LH and RH Entry Assist Handles.	_____	_____
16. Back-Up Camera	_____	_____

**YES**    **NO**

**BODY SPECIFICATIONS**

**A. CAPACITY**

1. The body shall have a minimum capacity of:

a) 40 Cubic Yards

\_\_\_\_\_

**B. BODY DIMENSIONS**

1. Maximum overall width not to exceed 96"

\_\_\_\_\_

2. Maximum overall length and height (with tailgate in locked position) above the chassis frame not to exceed:

\_\_\_\_\_

	OL		
Capacity	Length	Height	CT
a. 34 Cu./Yd.	365"	114"	124-144"
b. 40 Cu./Yd.	406"	114"	160-180"

\_\_\_\_\_

\_\_\_\_\_

3. Body weight (exclusive of options) shall not exceed:

	Capacity	Weight
a.	34 Cu. /Yd.	17,490 pounds
b.	40 Cu. /Yd.	18,430 pounds

\_\_\_\_\_

\_\_\_\_\_

**C. BODY CONSTRUCTION:**

1. The body sides shall be constructed on 3/16" AR35 steel, 115,000 PSI formed to a radius for added strength. Side panels should be one sheet. Multiple panels are not acceptable.

\_\_\_\_\_

2. The body roof shall be constructed of 3/16" HI- tensile sheet steel.

\_\_\_\_\_

3. A single 2" x 2" structural tube shall reinforce the roof at the center line, connecting the front and rear brushing.

\_\_\_\_\_

4. A 3"x 2"x 3/16" structural tube shall reinforce the body at the front and rear. The tube shall be formed to the radius of the body.

\_\_\_\_\_

5. The body floor shall be flat and made of 1/4" AR 400, 200,000 PSI.

\_\_\_\_\_

6. The floor longitudinal shall be 3" x 6" x 1/4" structural tube.

\_\_\_\_\_

7. The floor cross members shall be 4" 5.4 # O channel on 16" centers.

\_\_\_\_\_

**YES**    **NO**

#### **D. HOPPER**

- |  |       |       |
|--|-------|-------|
| 1. The hopper shall have a minimum capacity of 12 cubic yards.   | _____ | _____ |
| 2. The hopper floor shall be constructed of ¼" AR400, 200,000 PSI.   | _____ | _____ |
| 3. The lower hopper sides shall be constructed of 3/16" AR 400 steel 200,000 PSI formed to a radius for additional strength. Straight hopper sides not acceptable.   | _____ | _____ |
| 4. The upper hopper side shall be constructed 7ga Hi-Tensile steel.  | _____ | _____ |
| 5. The hopper front shall be enclosed with expanded metal for viewing behind the packer blade and to prevent trash from blowing out.   | _____ | _____ |
| 6. The hopper shall be lined with six (6) ¼" and 3/8" AR500 wear strips to match the wear strips on the packer blade. Plow steel wear strips are not acceptable.   | _____ | _____ |
| 7. There shall be a hydraulic sliding hopper cover constructed of 10ga 50k Ki-Tensile and reinforced with 2" x 2" tube.  | _____ | _____ |
| 8. The hopper cover shall be powered by a one (1) 2 ½" x 80 double acting hydraulic cylinder.  | _____ | _____ |
| 9. The hopper cover shall open automatically when raising the lift arms.   | _____ | _____ |
| 10. There shall be an air toggle valve in the cab to manually close the hopper cover.  | _____ | _____ |
| 11. There shall be a 28" x 12" sump clean out doors located on both sides of the front of the body. It shall be located so to have access from the ground and without the need to physically enter the hopper. minimum capacity of 50 gal. | _____ | _____ |
| 12. There shall be a side access door with a lock out and shall be a minimum of 30" x 30".   | _____ | _____ |

#### **E. PACKING MECHANISM**

- |   |       |       |
|---|-------|-------|
| 1. The packing panel face sheet shall be constructed of ¼" AR 235 steel, 115,000 PSI.   | _____ | _____ |
| 2. The packing panel shall slide in a tract construction of ¼" T-1 formed channel and lined on all three sides with AR 50 wear strips.    | _____ | _____ |
| 3. The packing panel shall be activated by two (2) 6.5" x 182" stroke four stage telescope hydraulic cylinders with a criss cross design. | _____ | _____ |

**YES NO**

- |  |       |       |
|--|-------|-------|
| 4. The panel shall have a pack cycle of 24 seconds.  | _____ | _____ |
| 5. The packing panel shall be 78" high and 84" wide.   | _____ | _____ |
| 6. The packing panel shall exert a minimum of 153,000 lbs. of packing force throughout the pack cycle. | _____ | _____ |

**F. TAILGATE**

- |  |       |       |
|--|-------|-------|
| 1. The tailgate shall be top hinged and of the bustle type.  | _____ | _____ |
| 2. The tailgate rear panel shall be constructed of 10ga. AR 235 plate 115,000 PSI.   | _____ | _____ |
| 3. The tailgate side sheets shall be constructed of 10ga AR 235, 115,000 PSI Hi-Tensile steel reinforced with 2" x 3" x 3/16" structural tube.                   | _____ | _____ |
| 4. The tailgate shall be assured to the body using one (1) set of hinges with 1 ½" hinge pins at the roof line.  | _____ | _____ |
| 5. The tailgate shall be unlocked, opened and closed by two (2) 3" x 42" double acting hydraulic cylinders.  | _____ | _____ |
| 6. The tailgate shall have a positive lock without the need for turnbuckles.   | _____ | _____ |
| 7. The tailgate shall be equipped with a one piece, replaceable rubber gasket, extending across the bottom width of the tailgate and vertically up the side 42". | _____ | _____ |
| 8. A warning light and buzzer shall be installed in the cab to indicate when the tailgate is open.   | _____ | _____ |

**G. LIFTING ARMS**

- |   |       |       |
|---|-------|-------|
| 1. The arms shall be of fabricated tube design and shall be 8 ½" in height and 2 ½" in overall width. Both dimensions are to be uniform throughout the arm. The arm is comprised of 2" x 1" upper and lower continuous flat bar. (Multiple piece welded flat bar is unacceptable). The arm shall also be reinforced internally with ¼" x 1 ½" flat bar every 18" throughout the arms. | _____ | _____ |
| 2. The lift arms shall have a 8,000 # lift capacity.  | _____ | _____ |

	<u>YES</u>	<u>NO</u>
3. The arm shall provide a progressive slow stop before coming into contact with the rubber arm stops by use of a deceleration valve. (Internal cushioning of the arm cylinders is not acceptable).	_____	_____
4. The lift arms and fork cycle time shall not be more than 20 sec.	_____	_____
5. The lift arms shall be powered by two (2) 5" x 36" double acting cylinders with 2 ½".	_____	_____
6. The arm pivot shaft shall be constructed of 4 ½" OD x ½" wall DOM tubing.	_____	_____
7. The pivot bushings shall be a minimum of 12" long to prevent wear.	_____	_____
8. The forks shall be constructed of 1 ¼" Hi-Tensile plate, 53" long and tapers at the end.	_____	_____
9. The forks at the dump position shall not exceed 13' 6" above the ground.	_____	_____
10. The fork rotation shall be accomplished by two (2) 4" double acting hydraulic cylinders, 24" stroke, with a minimum 2" rod.	_____	_____
11. The fork pivot shaft shall be constructed of 4 ½" OD x ½" wall DOM tube.	_____	_____
12. The fork bushings shall be of the split brass type bolted to the arms with four (4) ¾" grade 8 bolts on each side.	_____	_____
13. There shall be UHMW arm scuff plates mounted to the upper hopper.	_____	_____

#### **H. CONTROLS**

1. The operating controls shall be located in the cab easily accessible to the driver.	_____	_____
2. The fork and arm function shall be controlled by two (2) 4 way metering air controllers bolted together along with the pump control.	_____	_____
3. The controller shall communicate with the hydraulic valve air shifters in a metering function to provide better control in the loading process.	_____	_____
4. The packer, hopper cover, and rear door operation shall be controlled by a four (4) way, three (3) position air toggle valves.	_____	_____



**YES** **NO**

5. The rear door shall not operate with out depressing a safety air toggle valve in conjunction with the tailgate toggle switch to prevent accidental opening of the rear door.

\_\_\_\_\_

6. The arm control shall have an interlock to prevent dumping behind the packer blade.

\_\_\_\_\_

## **I. HYDRAULICS**

1. Hydraulic reservoir shall be supplied with a minimum of 70 gallons and equipped with a fluid sight gauge, air breather filter, magnetic trap, and a gate valve on the auction line.

\_\_\_\_\_

2. The reservoir shall have a 100 micron auction strainer and and equipped with a built in bypass for pump protection.

\_\_\_\_\_

3. The body shall be powered by a front mounted Muncie MLS LPV50 pump.

\_\_\_\_\_

4. All hydraulic functions shall be controlled by a sectional mir operated hydraulic valve, commercial VA-35 or equivalent.

\_\_\_\_\_

5. All hydraulic hoses shall be SAE 100 R2 with crimped fittings. Where possible seamless steel tubing shall be used and held in place with shock absorbing bolt on clamps.

\_\_\_\_\_

6. All hose ends, tubing and adapters shall have HC 37degree fittings.

\_\_\_\_\_

7. Normal maximum operating pressures shall not exceed 2450 PSI.

\_\_\_\_\_

8. The hydraulic system shall incorporate a relief valve to protect all components from excess pressures.

\_\_\_\_\_

9. All cylinder rods shall be chrome plated.

\_\_\_\_\_

10. All cylinder rod end pin lugs shall be inserts welded to the cylinder rods.

\_\_\_\_\_

11. Automatic packer – The hydraulic system shell include automatic pack function to allow a continuous pack cycle. The auto pack function shall include a pack start button, a red “stop” button, a neutral safety to disallow the throttle to accelerate if the transmission is in gear, and a lock out provided on the hopper access door. The packer shall automatically accelerate at 1,600 RPM when truck is in neutral.

\_\_\_\_\_

**YES NO**

**J. ELECTRICAL:**

1. All wiring shall be loomed or in conduit.
2. The body shall be equipped with approved clearance, warning, tall, license, stop and turn signals in compliance with the national safety standards.
3. All clearance, back-up, and directional lights shall be shock mounted and be of the pop-out style.
4. The body shall be equipped with an external audio back-up alarm activated when the chassis is in reverse.
5. A light shall illuminate in the cab when the tailgate is open and audible alarm will sound when the tailgate is open.
6. A rear vision camera shall be installed with a 5" monitor for viewing rear of body and for safety when truck is in reverse.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

**K. PAINT:**

1. The body shall be properly cleaned of all dirt, oil and welding slag. A gray lead-free primer with rust inhibitors shall be applied.
2. 3 coats of the manufacturers standard auto enamel shall be applied.

_____	_____
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Specify paint code: \_\_\_\_\_

Specify paint color: \_\_\_\_\_

**L. MOUNTING:**

1. Body shall be mounted in accordance to industry standards. No welding shall be preformed on the chassis frame in the mounting process.

_____	_____
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**M. WARRANTY:**

Body

1. Body: Manufacturer's limited warranty shall apply for a period of one year after date of acceptance of the unit.
2. Cylinders – 2 years.

_____	_____
_____	_____

**YES NO**

**N. OPTIONAL EQUIPMENT:**

1. Hopper Lights (insert into electrical if desired). Two white lamps  
The lights shall be capable of illuminating the hopper. The  
Lights will be activated by a switch in the cab of the chassis.

\_\_\_\_

2. Strobe light (insert into electrical if desired). A strobe light  
shall be mounted on the upper half of the tailgate. The  
light shall be activated by a switch in the cab of the chassis.

\_\_\_\_

3. Pressure Line Filter – The hydraulic system shall have a  
pressure line filter with a by-pass indicator mounted  
between the pump and hydraulic valve.

\_\_\_\_

**P. CAB SHIELD:**

Body shall be equipped with a full cab shield to fully protect the roof  
of the cab and the windshield from falling debris. Shield shall have folding  
front section to facilitate tilting of the cab.

\_\_\_\_

**Q. LIGHTING:**

1. Clearance, back up, and directional lights shall be Lexan lens, shock  
mounted in a protective housing. The whole unit shall be pop out and  
replaceable.

2. All lights shall be provided in accordance with FMVSS#108, plus mid  
body turn signals on each side of the body and a center brake light on the rear.

\_\_\_\_

3. Body shall be equipped with rear strobe light with in-cab switch.

\_\_\_\_

4. Body shall be equipped with hopper floodlight with in-cab switch.

\_\_\_\_

**R: REAR VISION CAMERA:**

Bidder shall furnish and install a rear vision surveillance camera  
with in-cab monitor.

\_\_\_\_

**TOTAL COST \$\_\_\_\_\_**