



# Smart Contract Audit

FOR  
**CyberVerse Land**

DATED : 23 JAN 23'



# AUDIT SUMMARY

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**Project name** – CyberVerse Land

**Date:** 23 January , 2023

**Scope of Audit-** Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

**Audit Status:** **Passed** (Contract is developed by Pinksale safu dev)

## Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	0	0	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0

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# USED TOOLS

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## Tools:

### 1- Manual Review:

a line by line code review has been performed by audit ace team.

### 2- Goerli:

all tests were done on Goerli network, each test has its transaction has attached to it.

### 3- Slither : Static Analysis

**Testnet Link:** all tests were done using this contract, tests are done on goerli

<https://goerli.etherscan.io/token/0x2a0ce16b02c188cf1999df7c6cf5fdd4815559c8c1>

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# Token Information

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**Token Name :** Cyberverseland

**Token Symbol:** CYBERVERSE

**Decimals:** 18

**Token Address:**

0x0911BBfF1F00E94a1D3FcFa331E890F05337CD4B

**Checksum:**

f0e4c2f76c58916ec258f246851bea091d14d4247a2f  
c3e18694461b1816e13b

**Deployer:**

0x7271ed7709d8bB6f83766b76Db276b50e057d2b9

**Owner:**

0x7271ed7709d8bB6f83766b76Db276b50e057d2b9

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# TOKEN OVERVIEW

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## **Fees:**

Buy Fees: 1%

Sell Fees: 1%

Transfer Fees: 0%

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**Fees Privilege:** Owner

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**Ownership :** Owned

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**Minting:** No mint function

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**Max Tx Amount/ Max Wallet Amount:** No

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**Blacklist:** No

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**Other Privileges:** No

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# AUDIT METHODOLOGY

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The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
  - Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
  - Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
  - Test coverage analysis determines whether the test cases are covering the code and how much code is exercised when we run the test cases.
  - Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
  - Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.
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# VULNERABILITY CHECKLIST

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- |  |   |
|--|---|
|  Return values of low-level calls  |  Gasless Send                  |
|  Private modifier                  |  Using block.timestamp         |
|  Multiple Sends                    |  Re-entrancy                   |
|  Using Suicide                    |  Tautology or contradiction   |
|  Gas Limitand Loops              |  Timestamp Dependence        |
|  Address hardcoded               |  Revert/require functions    |
|  Exception Disorder              |  Use of tx.origin            |
|  Using inline assembly           |  Integer overflow/underflow  |
|  Divide before multiply          |  Dangerous strict equalities |
|  Missing Zero Address Validation |  Using SHA3                  |
|  Compiler version not fixed      |  Using throw                 |
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# CLASSIFICATION OF RISK

## Severity

## Description

### ◆ Critical

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

### ◆ High-Risk

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

### ◆ Medium-Risk

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

### ◆ Low-Risk

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

### ◆ Gas Optimization /Suggestion

A vulnerability that has an informational character but is not affecting any of the code.

## Findings

### Severity

### Found

#### ◆ Critical

0

#### ◆ High-Risk

0

#### ◆ Medium-Risk

0

#### ◆ Low-Risk

0

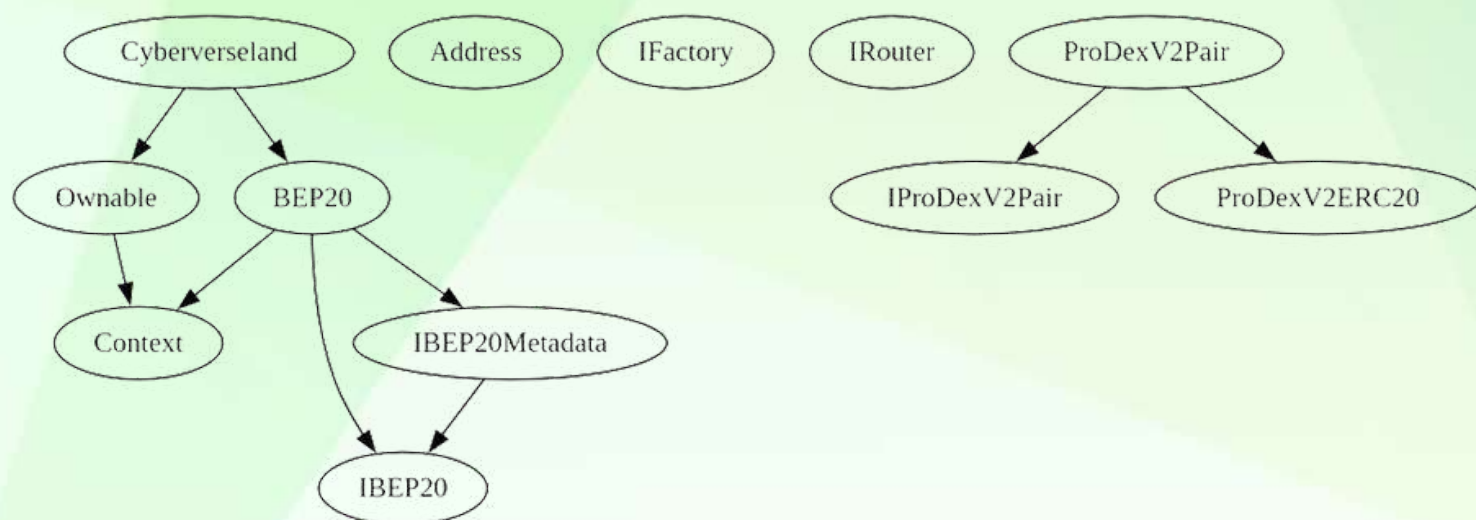
#### ◆ Gas Optimization / Suggestions

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# INHERITANCE TREE

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## POINTS TO NOTE

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- **Owner is not able to change taxes (1% buy and 1% sell, 0% transfer)**
  - **Owner is not able to blacklist an arbitrary wallet**
  - **Owner is not able to set max buy/sell/transfer amounts**
  - **Owner is not able to disable trades**
  - **Owner is not able to mint new tokens**
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# CONTRACT ASSESMENT

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
└	<b>**Function Name**</b>	<b>**Visibility**</b>	<b>**Mutability**</b>	<b>**Modifiers**</b>	
<b>**Context**</b>   Implementation					
└	_msgSender	Internal	🔒		
└	_msgData	Internal	🔒		
<b>**IBEP20**</b>   Interface					
└	totalSupply	External	!		NO!
└	balanceOf	External	!		NO!
└	transfer	External	!	🛑	NO!
└	allowance	External	!		NO!
└	approve	External	!	🛑	NO!
└	transferFrom	External	!	🛑	NO!
<b>**IBEP20Metadata**</b>   Interface   IBEP20					
└	name	External	!		NO!
└	symbol	External	!		NO!
└	decimals	External	!		NO!
<b>**BEP20**</b>   Implementation   Context, IBEP20, IBEP20Metadata					
└	<Constructor>	Public	!	🛑	NO!
└	name	Public	!		NO!
└	symbol	Public	!		NO!
└	decimals	Public	!		NO!
└	totalSupply	Public	!		NO!
└	balanceOf	Public	!		NO!
└	transfer	Public	!	🛑	NO!
└	allowance	Public	!		NO!
└	approve	Public	!	🛑	NO!
└	transferFrom	Public	!	🛑	NO!
└	increaseAllowance	Public	!	🛑	NO!
└	decreaseAllowance	Public	!	🛑	NO!
└	_transfer	Internal	🔒	🛑	
└	_tokengeneration	Internal	🔒	🛑	
└	_approve	Internal	🔒	🛑	
<b>**Address**</b>   Library					
└	sendValue	Internal	🔒	🛑	
<b>**Ownable**</b>   Implementation   Context					

# CONTRACT ASSESMENT

```

|  | <Constructor> | Public ! |  | NO! |
|  | owner | Public ! | | NO! |
|  | renounceOwnership | Public ! |  | onlyOwner |
|  | transferOwnership | Public ! |  | onlyOwner |
|  | _setOwner | Private  |  | |
|||||
| **IFactory** | Interface | |||
|  | createPair | External ! |  | NO! |
|||||
| **IRouter** | Interface | |||
|  | factory | External ! | | NO! |
|  | WETH | External ! | | NO! |
|  | addLiquidityETH | External ! |  | NO! |
|  | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! |  | NO! |
|||||
| **Cyberverseland** | Implementation | BEP20, Ownable |||
|  | <Constructor> | Public ! |  | BEP20 |
|  | approve | Public ! |  | NO! |
|  | transferFrom | Public ! |  | NO! |
|  | increaseAllowance | Public ! |  | NO! |
|  | decreaseAllowance | Public ! |  | NO! |
|  | transfer | Public ! |  | NO! |
|  | _transfer | Internal  |  | |
|  | Liquify | Private  |  | lockTheSwap |
|  | swapTokensForETH | Private  |  | |
|  | addLiquidity | Private  |  | |
|  | updateLiquidityProvide | External ! |  | onlyOwner |
|  | updateLiquidityTreshhold | External ! |  | onlyOwner |
|  | SetBuyTaxes | External ! |  | onlyOwner |
|  | SetSellTaxes | External ! |  | onlyOwner |
|  | EnableTrading | External ! |  | onlyOwner |
|  | updatedeadline | External ! |  | onlyOwner |
|  | updateMarketingWallet | External ! |  | onlyOwner |
|  | updateExemptFee | External ! |  | onlyOwner |
|  | bulkExemptFee | External ! |  | onlyOwner |
|  | rescueBNB | External ! |  | onlyOwner |
|  | rescueBSC20 | External ! |  | onlyOwner |
|  | <Receive Ether> | External ! |  | NO! |



```








# CONTRACT ASSESMENT


|||||

| **\*\*ProDexV2Pair\*\*** | Implementation | IProDexV2Pair, ProDexV2ERC20 |||

| <sup>L</sup> | getReserves | Public  | | NO  |



| <sup>L</sup> | \_safeTransfer | Private  |  | |



| <sup>L</sup> | <Constructor> | Public  |  | NO  |



| <sup>L</sup> | initialize | External  |  | NO  |



| <sup>L</sup> | \_update | Private  |  | |



| <sup>L</sup> | \_mintFee | Private  |  | |

| <sup>L</sup> | mint | External  |  | lock |

| <sup>L</sup> | burn | External  |  | lock |


| <sup>L</sup> | swap | External  |  | lock |

| <sup>L</sup> | skim | External  |  | lock |

| <sup>L</sup> | sync | External  |  | lock |

| Symbol | Meaning |

| :-----: | ----- |

|  | Function can modify state |

|  | Function is payable |





# STATIC ANALYSIS

```
Cyberverseland.updateLiquidityThreshold(uint256) (contracts/token.sol#699-706) should emit an event for:
- tokenLiquidityThreshold = new amount * 10 ** decimals() (contracts/token.sol#705)
Cyberverseland.updateDeadline(uint256) (contracts/token.sol#737-741) should emit an event for:
- deadline = deadline (contracts/token.sol#740)
Reference: https://github.com/crytic/sliether/wiki/Detector-Documentation#missing-events-arithmetic

Modifier Cyberverseland.lockTheSwap() (contracts/token.sol#473-479) does not always execute ; or revert
Reference: https://github.com/crytic/sliether/wiki/Detector-Documentation#incorrect-modifier

Reentrancy in Cyberverseland.Liquify(uint256,Cyberverseland.Taxes) (contracts/token.sol#620-659):
  External calls:
  - swapTokensForETH(toSwap) (contracts/token.sol#642)
    - router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/token.sol#670-676)
  - addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#651)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
  External calls sending eth:
  - addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#651)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
  State variables written after the call(s):
  - addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#651)
    - allowances[owner][spender] = amount (contracts/token.sol#344)
Reentrancy in Cyberverseland.transferFrom(address,address,uint256) (contracts/token.sol#510-525):
  External calls:
  - _transfer(sender,recipient,amount) (contracts/token.sol#515)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
    - (success) = recipient.call{value: amount}() (contracts/token.sol#356)
    - router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/token.sol#670-676)
    - address(marketingWallet).sendValue(marketingAmt) (contracts/token.sol#656)
  External calls sending eth:
  - _transfer(sender,recipient,amount) (contracts/token.sol#515)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
    - (success) = recipient.call{value: amount}() (contracts/token.sol#356)
  State variables written after the call(s):
  - approve(sender,msgSender(),currentAllowance - amount) (contracts/token.sol#522)
  - allowances[owner][spender] = amount (contracts/token.sol#344)
Reference: https://github.com/crytic/sliether/wiki/Detector-Documentation#reentrancy-vulnerabilities-2

Reentrancy in Cyberverseland.Liquify(uint256,Cyberverseland.Taxes) (contracts/token.sol#620-659):
  External calls:
  - swapTokensForETH(toSwap) (contracts/token.sol#642)
    - router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/token.sol#670-676)
  - addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#651)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
  External calls sending eth:
  - addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#651)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
  Event emitted after the call(s):
  - Approval(owner,spender,amount) (contracts/token.sol#345)
  - addLiquidity(tokensToAddLiquidityWith,ethToAddLiquidityWith) (contracts/token.sol#651)

Reentrancy in Cyberverseland.transfer(address,address,uint256) (contracts/token.sol#564-618):
  External calls:
  - Liquify(feeswap,currentTaxes) (contracts/token.sol#607)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
    - (success) = recipient.call{value: amount}() (contracts/token.sol#356)
    - router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/token.sol#670-676)
    - address(marketingWallet).sendValue(marketingAmt) (contracts/token.sol#656)
  External calls sending eth:
  - Liquify(feeswap,currentTaxes) (contracts/token.sol#607)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
    - (success) = recipient.call{value: amount}() (contracts/token.sol#356)
  Event emitted after the call(s):
  - Transfer(sender,recipient,amount) (contracts/token.sol#306)
    - super.transfer(sender,address(this),feeAmount) (contracts/token.sol#615)
  - Transfer(sender,recipient,amount) (contracts/token.sol#306)
    - super.transfer(sender,recipient,amount - fee) (contracts/token.sol#610)
Reentrancy in Cyberverseland.transferFrom(address,address,uint256) (contracts/token.sol#510-525):
  External calls:
  - _transfer(sender,recipient,amount) (contracts/token.sol#515)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
    - (success) = recipient.call{value: amount}() (contracts/token.sol#356)
    - router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/token.sol#670-676)
    - address(marketingWallet).sendValue(marketingAmt) (contracts/token.sol#656)
  External calls sending eth:
  - _transfer(sender,recipient,amount) (contracts/token.sol#515)
    - router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,deadWallet,block.timestamp) (contracts/token.sol#684-691)
    - (success) = recipient.call{value: amount}() (contracts/token.sol#356)
  Event emitted after the call(s):
  - Approval(owner,spender,amount) (contracts/token.sol#345)
    - approve(sender,msgSender(),currentAllowance - amount) (contracts/token.sol#522)
Reference: https://github.com/crytic/sliether/wiki/Detector-Documentation#reentrancy-vulnerabilities-3

Context.msgData() (contracts/token.sol#14-17) is never used and should be removed
Reference: https://github.com/crytic/sliether/wiki/Detector-Documentation#dead-code

Pragma version<0.8.17 (contracts/token.sol#7) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
solc-0.8.17 is not recommended for deployment
Reference: https://github.com/crytic/sliether/wiki/Detector-Documentation#incorrect-versions-of-solidity

Low level call in Address.sendValue(address,uint256) (contracts/token.sol#350-361):
- (success) = recipient.call{value: amount}() (contracts/token.sol#356)
Reference: https://github.com/crytic/sliether/wiki/Detector-Documentation#low-level-calls
```



# STATIC ANALYSIS

```
Variable BEP20_balances (contracts/token.sol#69) is not in mixedCase
Variable BEP20_allowances (contracts/token.sol#71) is not in mixedCase
Function IRouter.WETH() (contracts/token.sol#413) is not in mixedCase
Function Cyberverseland.Liquify(uint256,Cyberverseland.Taxes) (contracts/token.sol#620-659) is not in mixedCase
Parameter Cyberverseland.updateLiquidityTreshold(uint256).new amount (contracts/token.sol#699) is not in mixedCase
Function Cyberverseland.SetBuyTaxes(uint256,uint256) (contracts/token.sol#708-717) is not in mixedCase
Parameter Cyberverseland.SetBuyTaxes(uint256,uint256). marketing (contracts/token.sol#708) is not in mixedCase
Parameter Cyberverseland.SetBuyTaxes(uint256,uint256). liquidity (contracts/token.sol#708) is not in mixedCase
Function Cyberverseland.SetSellTaxes(uint256,uint256) (contracts/token.sol#719-728) is not in mixedCase
Parameter Cyberverseland.SetSellTaxes(uint256,uint256). marketing (contracts/token.sol#719) is not in mixedCase
Parameter Cyberverseland.SetSellTaxes(uint256,uint256). liquidity (contracts/token.sol#719) is not in mixedCase
Function Cyberverseland.EnableTrading() (contracts/token.sol#730-735) is not in mixedCase
Parameter Cyberverseland.updatedeadline(uint256). deadline (contracts/token.sol#737) is not in mixedCase
Parameter Cyberverseland.updateExemptFee(address,bool). _address (contracts/token.sol#748) is not in mixedCase
Variable Cyberverseland.genesis_block (contracts/token.sol#452) is not in mixedCase
Constant Cyberverseland.deadWallet (contracts/token.sol#457-458) is not in UPPER_CASE_WITH_UNDERSCORES
Reference: https://github.com/crytic/sliether/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

Redundant expression "this (contracts/token.sol#15)" inContext (contracts/token.sol#9-18)
Reference: https://github.com/crytic/sliether/wiki/Detector-Documentation#redundant-statements

Cyberverseland.lastSell (contracts/token.sol#471) is never used in Cyberverseland (contracts/token.sol#440-776)
Reference: https://github.com/crytic/sliether/wiki/Detector-Documentation#unused-state-variable

Cyberverseland.launchtax (contracts/token.sol#454) should be constant
Reference: https://github.com/crytic/sliether/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

Cyberverseland.pair (contracts/token.sol#444) should be immutable
Cyberverseland.router (contracts/token.sol#443) should be immutable
Reference: https://github.com/crytic/sliether/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

**Result => No issues found**



# FUNCTIONAL TESTING

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## **Functionality tests for ERC20 tokens includes:**

- adding liquidity
- buying / selling /transferring (for non-excluded wallets)
- checking tax conversions, tax destinations
- checking auto liquidity

### **1- Adding Liquidity:**

liquidity added on Uniswap v2:

<https://goerli.etherscan.io/tx/0xfe45db2e8c97a295d0a1d37a361b6d394e63e58b9760662cf4ff06534b77e73f>

no issue were found on adding liquidity.

### **2- Buying from a non-excluded wallet:**

<https://goerli.etherscan.io/tx/0xc2fe1e0e2c44a20d04e3fc121eeec ee130dcef1dfc1cebac3f1af297584e6037>

1% tax on buy, transferred to contract (not reached swap threshold yet)

### **3- Selling from a non-excluded wallet**

<https://goerli.etherscan.io/tx/0xafdace96a96b2f66e7e0f62a9365f2db74976b53cf3f6eb369d2409e023ee667>

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# FUNCTIONAL TESTING

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1% tax on sell, transferred to contract (not reached swap threshold yet)

## 4- Swap & liquify

since liquidity tax is 0 and taxes can not be changed later, then auto-liquidity is disabled forever. But to check marketing tax, we transferred 10M tokens to the contract to reach swap threshold and then we performed a sell:

<https://goerli.etherscan.io/tx/0xafdace96a96b2f66e7e0f62a9365f2db74976b53cf3f6eb369d2409e023ee667>

marketing wallet received converted ETH tokens received from swapping taxes.

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# MANUAL TESTING

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**NO RISKS WERE FOUND IN THE CONTRACT**



# Social Media Overview

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**Here are the Social Media Accounts of  
Cyber Verse**



**<https://t.me/CyberverseLand>**



**<https://twitter.com/Cyberverseland>**



**<https://www.cyberverseland.com/>**

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# ABOUT AUDITACE

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We specialize in providing thorough and reliable audits for Web3 projects. With a team of experienced professionals, we use cutting-edge technology and rigorous methodologies to evaluate the security and integrity of blockchain systems. We are committed to helping our clients ensure the safety and transparency of their digital assets and transactions.



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**<https://github.com/Audit-Ace>**

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