

RugFreeCoins Audit



Sisters Token

Smart Contract Security Audit

June 11, 2022

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Audit details





Contract Address

0xFAb9b22CE76aFDD3F526AbF4CB035aE160Bdcdf1



Client contact

Sisters Team



Blockchain

Binance smart chain



Project website

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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Background

Rugfreecoins was commissioned by Sisters Team to perform an audit of the smart contract.

https://bscscan.com/token/0xFAb9b22CE76aFDD3F526AbF4CB035aE160Bdcdf1

The focus of this audit is to verify that the smart contract is secure, resilient, and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, long-term sustainability, and as a guide to improving the security posture of the smart contract by remediating the issues that were identified.

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About the project

Sisters is a token built on the Binance Smart Chain that is with an innovative investment use case the main purpose of which is to seek out constant revenue sources, which in turn, powers reward combined with the most interesting games and applications. Each transaction, purchase, and sale incur a 5% fee.

Features

- The Sisters token will be distributed in tokens among every holder proportional to how
 many tokens each individual holds in values of 1% when buying and selling.
- The sustainability fee of 2% when buying and selling for marketing is what allows
 Sisters token to hold the aforementioned promise. Tokens will be swapped into BNB and
 will be sent to a marketing wallet. This way, Sisters Token will have enough funds to
 promote the coin and spend for future development and marketing without selling tokens
 as the traditional way.
- The additional component included under the sustainability section is a **liquidity fee of 2% when buying and selling**, which is a redistribution mechanism that ensures the trading pool always has sufficient liquidity.

ROADMAP



PHASE 1 - COMPLETED

SPRING 2022 - PRE LAUNCH

- Website
- STR IDO
- Sisters Yield Farm Dapp

Sisters Yield Farm will be developed and launched before STR presale.



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PHASE 2

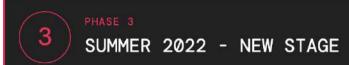
SUMMER 2022 - GROWTH

- OCommunity Growth
- · Partnerships with main BSC Swaps
- Certik Audit

Onboarding 10+ new sisters

STR will adjust the tax lower depending on the STR minted by stakers.





- Onboarding new partners
- Adjust tax to 0
- Partnership with exchanges

We will adjust the STR tax to 0 after all tokens are minted. After that we are going to listing exchanges.



Tokenomics

5% fee when buying and selling

- 1% of trade goes to holders pockets in token rewards
- 2% of trade goes to the marketing wallet in BNB
- 2% of trade goes to the liquidity pool

Target market and the concept

Target market

- Anyone who's interested in the Crypto space with long-term investment plans.
- Anyone who's ready to earn a passive income by holding tokens.
- Anyone who's interested in trading tokens.
- Anyone who's interested in trading or holding NFTs.
- Anyone who's interested in Stake STR and LP tokens in Sisters Farm to earn high APR profits.
- Anyone who's interested in taking part in the future plans of the Sisters token.
- Anyone who's interested in making financial transactions with any other party using Sisters token as the currency.

Core concept

The Sisters reward system

1% of each transaction when buying and selling is split amongst all holders in native tokens. Holders will be eligible to receive tokens in each transaction and rewards are proportional to how many tokens each individual holds.

Sustainable mechanism

The sustainability fee of 2% when buying and selling for marketing is what allows Sisters Token to promote the token and use funds to further the development of the platform. Tokens will be swapped into BNB and will be sent to a marketing wallet. This way, Sisters Token will have access to the funds without selling tokens as the traditional way, which will enable them to consume funds without hurting the project.

The liquidity fee of 2% when buying and selling, is a redistribution mechanism that ensures the trading pool always has sufficient liquidity.

Potential to grow with score points

1.	Project efficiency	8/10
2.	Project uniqueness	8/10
3	Information quality	8/10
4	Service quality	8/10
5	System quality	8/10
6	Impact on the community	8/10
7	Impact on the business	8/10
8	Preparing for the future	7/10
9	Smart contract security	9/10
10	Smart contract functionality assessment	10/10
Total Points		8.2/10

Contract details

Token contract details for 11th June 2022

Contract name	Sisters
Contract address	0xFAb9b22CE76aFDD3F526AbF4CB035aE160Bdcdf1
Token supply	4,500,000,000
Token ticker	STR
Decimals	9
Token holders	3
Transaction count	7
Marketing wallet	0x203540a51da4a260004c0976920c139eb8018b7a
Contract deployer address	0x3Cb320ba158efbCB0a9a06D36A7780A87171F99B
Contract's current owner address	0x3cb320ba158efbcb0a9a06d36a7780a87171f99b

Contract code function details

No	Category	Item	Result
1	Coding conventions	BRC20 Token standards	pass
		compile errors	pass
		Compiler version security	pass
		visibility specifiers	pass
		Gas consumption	pass
		SafeMath features	pass
		Fallback usage	pass
		tx.origin usage	pass
		deprecated items	pass
		Redundant code	pass
		Overriding variables	pass
2	Function call audit	Authorization of function call	pass
		Low level function (call/delegate call) security	pass
		Returned value security	pass
		Selfdestruct function security	pass
3	Business security	Access control of owners	Centralization issues
		Business logics	pass
		Business implementations	pass
4	Integer overflow/underflow		pass
5	Reentrancy		pass
6	Exceptional reachable state		pass
7	Transaction ordering dependence		pass
8	Block properties dependence		pass
9	Pseudo random number generator (PRNG)		pass
10	DoS (Denial of Service)		pass

11	Token vesting implementation	pass
12	Fake deposit	pass
13	Event security	pass

Contract description table

The below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions, and implementations with their visibility and mutability.

Contract	Туре	Bases		
L	Function Name	Visibility	Mutabilit y	Modifiers
,			,	
IERC20	Interface			
L	totalSupply	External		NO
L	balanceOf	External		NO
L	transfer	External		NO
L	allowance	External		NO
L	approve	External		NO
L	transferFrom	External [NO.
Context	Implementation			
L	_msgSender	Internal 🖺		
L	_msgData	Internal 🖺		
		1		

Ownable	Implementation	Context		
L		Public		NO
L	owner	Public [NO
L	renounceOwnership	Public [onlyOwner
L	transferOwnership	Public !		onlyOwner
L	_setOwner	Private 🖺		
IFactory	Interface			
L	createPair	External		NO.
IRouter	Interface			
L	factory	External		NO.
L	WETH	External .		NO
L	addLiquidityETH	External	<u>w</u>	NO
L	swapExactTokensForETHSupportingFeeOnTransfer Tokens	External		NO
STR	Implementation	Context, IERC20, Ownable		
L		Public		NO
L	name	Public [NO

L	symbol	Public	NO.
L	decimals	Public	NO.
L	totalSupply	Public	NO.
L	balanceOf	Public	NO.
L	transfer	Public	NO.
L	allowance	Public	NO.
L	approve	Public	NO.
L	transferFrom	Public	NO.
L	increaseAllowance	Public	NO.
L	decreaseAllowance	Public	NO.
L	isExcludedFromReward	Public	NO.
L	reflectionFromToken	Public	NO.
L	tokenFromReflection	Public	NO.
L	excludeFromReward	Public	onlyOwner
L	includeInReward	External [onlyOwner
L	excludeFromFee	Public	onlyOwner
L	includeInFee	Public	onlyOwner
L	isExcludedFromFee	Public	NO.
L	setTaxes	Public	onlyOwner
L	_reflectRfi	Private 🖺	

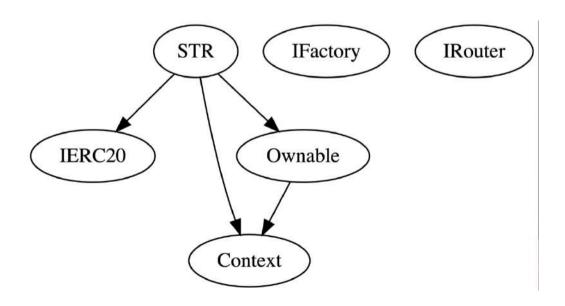
L	_takeLiquidity	Private 🖺	
L	_takeMarketing	Private 🖺	
L	_getValues	Private P	
L	_getTValues	Private 🖺	
L	_getRValues	Private 🖺	
L	_getRate	Private 🖺	
L	_getCurrentSupply	Private P	
L	_approve	Private P	
L	_transfer	Private P	
L	_tokenTransfer	Private 🖺	
L	swapAndLiquify	Private P	lockTheSwap
L	addLiquidity	Private P	
L	swapTokensForBNB	Private P	
L	updateMarketingWallet	External [onlyOwner
L	updatMaxBuyAmt	External [onlyOwner

L	updateSwapTokensAtAmount	External		onlyOwner
L	updateSwapEnabled	External		onlyOwner
L	updateRouterAndPair	External		onlyOwner
L	rescueBNB	External		onlyOwner
L	rescueAnyBEP20Tokens	Public		onlyOwner
L		External	въ	NO

Legend

Symbol	Meaning
	Function can modify state
G D	Function is payable

Inheritance Hierarchy



Security issue checking status

- High severity issues
 No High severity issues found
- Medium severity issues
 No medium severity issues found
- Low severity issues
 No low severity issues found
- Centralization Risk
- ❖ The owner can change all fees without any maximum limit

```
ftrace|funcSig
function setTaxes(
    uint256 _rfi1,
    uint256 _marketing1,
    uint256 _liquidity1
) public onlyOwner {
    taxes.rfi = _rfi1;
    taxes.marketing = _marketing1;
    taxes.liquidity = _liquidity1;
    emit FeesChanged();
}
```

Owner privileges

❖ The owner can include and exclude wallets from rewards

```
ftrace | funcSig
function excludeFromReward(address account ↑) public onlyOwner {
    require(!_isExcluded[account 1], "Account is already excluded");
    if (_r0wned[account 1] > 0) {
        tOwned[account 1] = tokenFromReflection( rOwned[account 1]);
    _isExcluded[account 1] = true;
    _excluded.push(account 1);
ftrace | funcSig
function includeInReward(address account 1) external onlyOwner {
    require(_isExcluded[account 1], "Account is not excluded");
    for (uint256 i = 0; i < _excluded.length; i++) {</pre>
        if (_excluded[i] == account1) {
            _excluded[i] = _excluded[_excluded.length - 1];
            t0wned[account 1] = 0;
            _isExcluded[account 1] = false;
            _excluded.pop();
            break:
```

The owner can include/exclude wallets from fees

```
ftrace|funcSig
function excludeFromFee(address account1) public onlyOwner {
    _isExcludedFromFee[account1] = true;
}

ftrace|funcSig
function includeInFee(address account1) public onlyOwner {
    _isExcludedFromFee[account1] = false;
}
```

The owner can change all fees

```
ftrace|funcSig
function setTaxes(
    uint256 _rfi1,
    uint256 _marketing1,
    uint256 _liquidity1
) public onlyOwner {
    taxes.rfi = _rfi1;
    taxes.marketing = _marketing1;
    taxes.liquidity = _liquidity1;
    emit FeesChanged();
}
```

The owner can change marketing wallet address

```
ftrace|funcSig
function updateMarketingWallet(address newWallet1) external onlyOwner {
    marketingAddress = newWallet1;
}
```

The owner can change max buy amount

```
ftrace|funcSig
function updatMaxBuyAmt(uint256 amount1) external onlyOwner {
    maxBuyAmount = amount1 * 10**_decimals;
}
```

The owner can change swap point

```
ftrace|funcSig
function updateSwapTokensAtAmount(uint256 amount1) external onlyOwner {
    swapTokensAtAmount = amount1 * 10**_decimals;
}
```

The owner can enable/disable swapping

```
ftrace|funcSig
function updateSwapEnabled(bool _enabled1) external onlyOwner {
    swapEnabled = _enabled1;
}
```

The owner can change router and pair address

```
ftrace|funcSig
function updateRouterAndPair(address newRouter1, address newPair1)
    external
    onlyOwner
{
    router = IRouter(newRouter1);
    pair = newPair1;
}
```

❖ The owner can get bnb and any BEP20 tokens in contract to the owner wallet

```
ftrace|funcSig
function rescueBNB(uint256 weiAmount1) external onlyOwner {
    require(address(this).balance >= weiAmount1, "insufficient BNB balance");
    payable(msg.sender).transfer(weiAmount1);
}

ftrace|funcSig
function rescueAnyBEP20Tokens(
    address _tokenAddr1,
    address _to*,
    uint256 _amount1
) public onlyOwner {
    require(_tokenAddr1 != address(this), "Cannot transfer out Token123!");
    IERC20(_tokenAddr1).transfer(_to1, _amount1);
}
```

Audit conclusion

RugFreeCoins team has performed in-depth testings, line by line manual code review, and automated audit of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, manipulations, and hacks. According to the smart contract audit.

Smart contract functional Status: PASSED

Number of risk issues: 1

Solidity code functional issue level: PASSED

Number of owner privileges: 9

Centralization risk correlated to the active owner: HIGH

Smart contract active ownership: YES