



Smart Contract Audit

FOR
SBF

DATED : 5 MAY 23'



AUDIT SUMMARY

Project name – SBF

Date: 5 May, 2023

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

Audit Status: **Passed**

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

USED TOOLS

Tools:

1. Manual Review: The code has undergone a line-by-line review by the **Ace** team.

2. BSC Test Network: All tests were conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

3. Slither: The code has undergone static analysis using Slither.



Token Information

Name : SBF CEO

Symbol : SBFCEO

Decimals: 18

Network: Binance smart chain

Token Type: BEP20

Token Address :

0xAbB8752cd864670c1ad80DEE559C98fFe531bfcf

Owner:

0x6a88aAD5547035BDE42020B18CDF4beD566a2e56
(at time of audit)

Deployer:

0x087fC35808268055D82e6638E280dE517509f518



Token Information

Fees:

Buy Fees: 10%

Sell Fees: 10%

Transfer Fees: 0%

Fees Privilege: None

Ownership : Owned

Minting: None

Max Tx Amount/ Max Wallet Amount: Yes

Blacklist: No

Other Privileges: Including or excluding from fees -
changing swap threshold



AUDIT METHODOLOGY

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.
-

VULNERABILITY CHECKLIST

- | | |
|------------------------------------|-------------------------------|
| ✓ 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 |
-



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

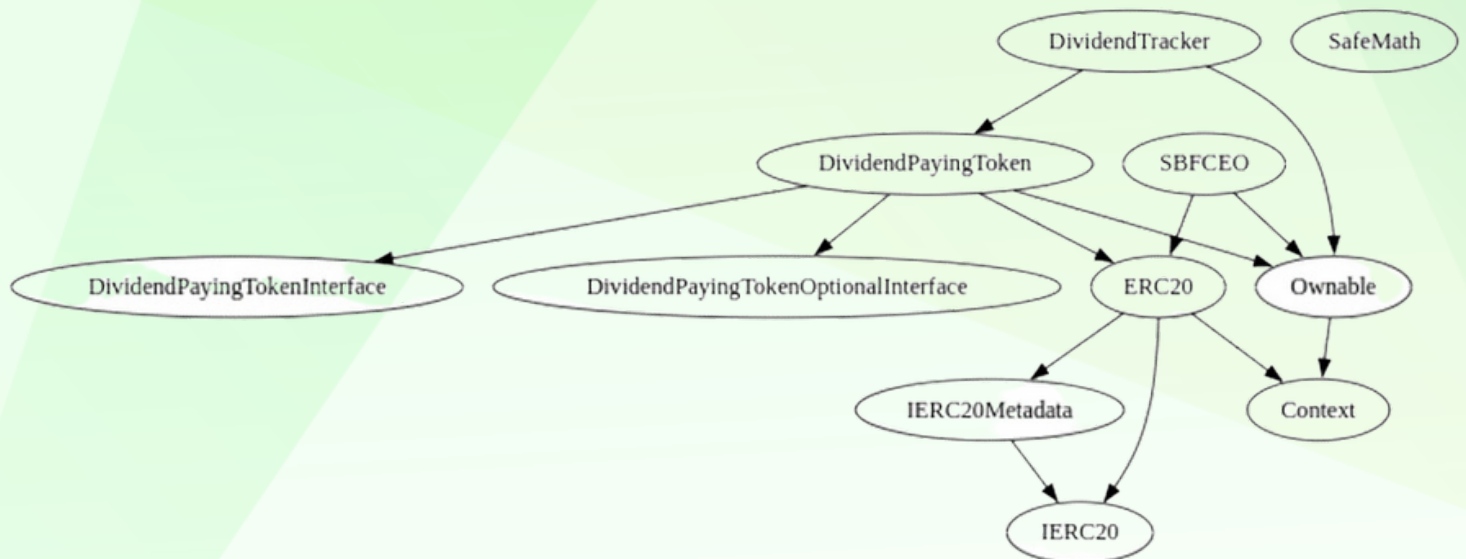
◆ Low-Risk

0

◆ Gas Optimization / Suggestions

0

INHERITANCE TREE



POINTS TO NOTE

- Owner is not able to change current tax (10% for buy and sell)
 - Owner is not able to set transfer taxes (0% forever)
 - Owner is not able to set max buy/sell/transfer/hold amount
 - Owner is not able to blacklist an arbitrary wallet
 - Owner is not able to mint new tokens
 - Owner is not able to disable trades
 - Trades are already enabled for public
 - Token has BNB rewards with auto-distribution
 - Fees are used for rewards (BNB) and marketing
-



CONTRACT ASSESMENT

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
↳	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
Context Implementation					
↳	_msgSender	Internal			
↳	_msgData	Internal			
Ownable Implementation Context					
↳	<Constructor>	Public		NO	
↳	owner	Public		NO	
↳	renounceOwnership	Public		onlyOwner	
↳	transferOwnership	Public		onlyOwner	
↳	_transferOwnership	Internal			
SafeMath Library					
↳	add	Internal			
↳	sub	Internal			
↳	sub	Internal			
↳	mul	Internal			
↳	div	Internal			
↳	div	Internal			
↳	mod	Internal			
↳	mod	Internal			
SafeMathInt Library					
↳	mul	Internal			
↳	div	Internal			
↳	sub	Internal			
↳	add	Internal			
↳	abs	Internal			
↳	toUint256Safe	Internal			
SafeMathUint Library					
↳	toInt256Safe	Internal			
IterableMapping Library					
↳	get	Internal			
↳	getIndexOfKey	Internal			
↳	getKeyAtIndex	Internal			
↳	size	Internal			



CONTRACT ASSESMENT

```
|  | set | Internal | | |
|  | remove | Internal | | |
| | | |
| **IUniswapV2Factory** | Interface | | |
|  | feeTo | External | | NO |
|  | feeToSetter | External | | NO |
|  | getPair | External | | NO |
|  | allPairs | External | | NO |
|  | allPairsLength | External | | NO |
|  | createPair | External | | NO |
|  | setFeeTo | External | | NO |
|  | setFeeToSetter | External | | NO |
| | | |
| **IUniswapV2Pair** | Interface | | |
|  | name | External | | NO |
|  | symbol | External | | NO |
|  | decimals | External | | NO |
|  | totalSupply | External | | NO |
|  | balanceOf | External | | NO |
|  | allowance | External | | NO |
|  | approve | External | | NO |
|  | transfer | External | | NO |
|  | transferFrom | External | | NO |
|  | DOMAIN_SEPARATOR | External | | NO |
|  | PERMIT_TYPEHASH | External | | NO |
|  | nonces | External | | NO |
|  | permit | External | | NO |
|  | MINIMUM_LIQUIDITY | External | | NO |
|  | factory | External | | NO |
|  | token0 | External | | NO |
|  | token1 | External | | NO |
|  | getReserves | External | | NO |
|  | price0CumulativeLast | External | | NO |
|  | price1CumulativeLast | External | | NO |
|  | kLast | External | | NO |
|  | mint | External | | NO |
|  | burn | External | | NO |
|  | swap | External | | NO |
|  | skim | External | | NO |
|  | sync | External | | NO |
|  | initialize | External | | NO |
```

CONTRACT ASSESMENT

|||||

```

| **IUniswapV2Router01** | Interface | |||
|  | factory | External ! | | NO ! |
|  | WETH | External ! | | NO ! |
|  | addLiquidity | External ! | ● | NO ! |
|  | addLiquidityETH | External ! | $ | NO ! |
|  | removeLiquidity | External ! | ● | NO ! |
|  | removeLiquidityETH | External ! | ● | NO ! |
|  | removeLiquidityWithPermit | External ! | ● | NO ! |
|  | removeLiquidityETHWithPermit | External ! | ● | NO ! |
|  | swapExactTokensForTokens | External ! | ● | NO ! |
|  | swapTokensForExactTokens | External ! | ● | NO ! |
|  | swapExactETHForTokens | External ! | $ | NO ! |
|  | swapTokensForExactETH | External ! | ● | NO ! |
|  | swapExactTokensForETH | External ! | ● | NO ! |
|  | swapETHForExactTokens | External ! | $ | NO ! |
|  | quote | External ! | | NO ! |
|  | getAmountOut | External ! | | NO ! |
|  | getAmountIn | External ! | | NO ! |
|  | getAmountsOut | External ! | | NO ! |
|  | getAmountsIn | External ! | | NO ! |

```

|||||

```

| **IUniswapV2Router02** | Interface | IUniswapV2Router01 |||
|  | removeLiquidityETHSupportingFeeOnTransferTokens | External ! | ● | NO ! |
|  | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! | ● | NO ! |
|  | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | ● | NO ! |
|  | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | $ | NO ! |
|  | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | ● | NO ! |

```

|||||

```

| **IERC20** | Interface | |||
|  | totalSupply | External ! | | NO ! |
|  | balanceOf | External ! | | NO ! |
|  | allowance | External ! | | NO ! |
|  | transfer | External ! | ● | NO ! |
|  | approve | External ! | ● | NO ! |
|  | transferFrom | External ! | ● | NO ! |

```

|||||

```

| **Address** | Library | |||
|  | isContract | Internal 🔒 | | |
|  | sendValue | Internal 🔒 | ● | |
|  | functionCall | Internal 🔒 | ● | |

```



CONTRACT ASSESMENT

```
|  | functionCall | Internal | 🔒 | ● | |
|  | functionCallWithValue | Internal | 🔒 | ● | |
|  | functionCallWithValue | Internal | 🔒 | ● | |
|  | _functionCallWithValue | Private | 🔒 | ● | |
|||||
| **IERC20Metadata** | Interface | IERC20 | |||
|  | name | External | ! | | NO ! |
|  | symbol | External | ! | | NO ! |
|  | decimals | External | ! | | NO ! |
|||||
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | |||
|  | <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 | 🔒 | ● | |
|  | _mint | Internal | 🔒 | ● | |
|  | _burn | Internal | 🔒 | ● | |
|  | _approve | Internal | 🔒 | ● | |
|  | _beforeTokenTransfer | Internal | 🔒 | ● | |
|||||
| **DividendPayingTokenInterface** | Interface | |||
|  | dividendOf | External | ! | | NO ! |
|  | withdrawDividend | External | ! | ● | NO ! |
|||||
| **DividendPayingTokenOptionalInterface** | Interface | |||
|  | withdrawableDividendOf | External | ! | | NO ! |
|  | withdrawnDividendOf | External | ! | | NO ! |
|  | accumulativeDividendOf | External | ! | | NO ! |
|||||
| **DividendPayingToken** | Implementation | ERC20, Ownable, DividendPayingTokenInterface,
DividendPayingTokenOptionalInterface | |||
|  | <Constructor> | Public | ! | ● | ERC20 |
```

CONTRACT ASSESMENT

```

|  | distributeDividends | Public  !  |  | onlyOwner |
|  | withdrawDividend | Public  !  |  | NO  !  |
|  | _withdrawDividendOfUser | Internal  |  |  |
|  | dividendOf | Public  !  |  | NO  !  |
|  | withdrawableDividendOf | Public  !  |  | NO  !  |
|  | withdrawnDividendOf | Public  !  |  | NO  !  |
|  | accumulativeDividendOf | Public  !  |  | NO  !  |
|  | _transfer | Internal  |  |  |
|  | _mint | Internal  |  |  |
|  | _burn | Internal  |  |  |
|  | _setBalance | Internal  |  |  |
|||||
| **DividendTracker** | Implementation | Ownable, DividendPayingToken |||
|  | <Constructor> | Public  !  |  | DividendPayingToken |
|  | <Receive Ether> | External  !  |  | NO  !  |
|  | _transfer | Internal  |  |  |
|  | withdrawDividend | Public  !  |  | NO  !  |
|  | updateMinimumTokenBalanceForDividends | External  !  |  | onlyOwner |
|  | excludeFromDividends | External  !  |  | onlyOwner |
|  | updateClaimWait | External  !  |  | onlyOwner |
|  | setLastProcessedIndex | External  !  |  | onlyOwner |
|  | getLastProcessedIndex | External  !  |  | NO  !  |
|  | getNumberOfTokenHolders | External  !  |  | NO  !  |
|  | getAccount | Public  !  |  | NO  !  |
|  | getAccountAtIndex | Public  !  |  | NO  !  |
|  | canAutoClaim | Private  |  |  |
|  | setBalance | External  !  |  | onlyOwner |
|  | process | Public  !  |  | NO  !  |
|  | processAccount | Public  !  |  | onlyOwner |
|||||
| **SBFCEO** | Implementation | ERC20, Ownable |||
|  | <Constructor> | Public  !  |  | ERC20 |
|  | <Receive Ether> | External  !  |  | NO  !  |
|  | claimStuckTokens | External  !  |  | onlyOwner |
|  | excludeFromFees | External  !  |  | onlyOwner |
|  | isExcludedFromFees | Public  !  |  | NO  !  |
|  | changeMarketingWallet | External  !  |  | onlyOwner |
|  | _transfer | Internal  |  |  |
|  | swapAndSendDividends | Private  |  |  |
|  | setSwapEnabled | External  !  |  | onlyOwner |

```



CONTRACT ASSESMENT

^L	setSwapTokensAtAmount	External !	●	onlyOwner
^L	updateGasForProcessing	Public !	●	onlyOwner
^L	updateMinimumBalanceForDividends	External !	●	onlyOwner
^L	updateClaimWait	External !	●	onlyOwner
^L	getClaimWait	External !		NO !
^L	getTotalDividendsDistributed	External !		NO !
^L	withdrawableDividendOf	Public !		NO !
^L	dividendTokenBalanceOf	Public !		NO !
^L	totalRewardsEarned	Public !		NO !
^L	excludeFromDividends	External !	●	onlyOwner
^L	isExcludedFromDividends	Public !		NO !
^L	getAccountDividendsInfo	External !		NO !
^L	getAccountDividendsInfoAtIndex	External !		NO !
^L	processDividendTracker	External !	●	NO !
^L	claim	External !	●	NO !
^L	claimAddress	External !	●	onlyOwner
^L	getLastProcessedIndex	External !		NO !
^L	setLastProcessedIndex	External !	●	onlyOwner
^L	getNumberOfDividendTokenHolders	External !		NO !

Legend

Symbol	Meaning
●	Function can modify state
💰	Function is payable



STATIC ANALYSIS

```
Function IUniswapV2Pair.DOMAIN_SEPARATOR() (contracts/Token.sol#303) is not in mixedCase
Function IUniswapV2Pair.PERMIT_TYPEHASH() (contracts/Token.sol#305) is not in mixedCase
Function IUniswapV2Pair.MINIMUM_LIQUIDITY() (contracts/Token.sol#336) is not in mixedCase
Function IUniswapV2Router01.WETH() (contracts/Token.sol#378) is not in mixedCase
Parameter DividendPayingToken.dividendOf(address).owner (contracts/Token.sol#969) is not in mixedCase
Parameter DividendPayingToken.withdrawableDividendOf(address).owner (contracts/Token.sol#974) is not in mixedCase
Parameter DividendPayingToken.withdrawDividendOf(address).owner (contracts/Token.sol#980) is not in mixedCase
Parameter DividendPayingToken.accumulativeDividendOf(address).owner (contracts/Token.sol#986) is not in mixedCase
Constant DividendPayingToken.magnitude (contracts/Token.sol#911) is not in UPPER_CASE_WITH_UNDERSCORES
Parameter DividendTracker.updateMinimumTokenBalanceForDividends(uint256).newMinimumBalance (contracts/Token.sol#1087) is not in mixedCase
Parameter DividendTracker.getAccount(address).account (contracts/Token.sol#1132) is not in mixedCase
Parameter SpongebobInu.updateBuyFees(uint256,uint256,uint256).autoBuybackBurnFeeOnBuy (contracts/Token.sol#1467) is not in mixedCase
Parameter SpongebobInu.updateBuyFees(uint256,uint256,uint256).marketingFeeOnBuy (contracts/Token.sol#1468) is not in mixedCase
Parameter SpongebobInu.updateBuyFees(uint256,uint256,uint256).rewardFeeOnBuy (contracts/Token.sol#1469) is not in mixedCase
Parameter SpongebobInu.updateSellFees(uint256,uint256,uint256).autoBuybackBurnFeeOnSell (contracts/Token.sol#1491) is not in mixedCase
Parameter SpongebobInu.updateSellFees(uint256,uint256,uint256).marketingFeeOnSell (contracts/Token.sol#1492) is not in mixedCase
Parameter SpongebobInu.updateSellFees(uint256,uint256,uint256).rewardFeeOnSell (contracts/Token.sol#1493) is not in mixedCase
Parameter SpongebobInu.changeMarketingWallet(address).marketingWallet (contracts/Token.sol#1517) is not in mixedCase
Parameter SpongebobInu.setSwapEnabled(bool).enabled (contracts/Token.sol#1683) is not in mixedCase
Variable SpongebobInu.DEAD (contracts/Token.sol#1332) is not in mixedCase
Reference: https://github.com/cryptic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions
```

```
Variable IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (contracts/Token.sol#383) is too similar to IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (contracts/Token.sol#384)
Variable DividendPayingToken._withdrawDividendOfUser(address)._withdrawableDividend (contracts/Token.sol#948) is too similar to DividendTracker.getAccount(address).withdrawableDividends (contracts/Token.sol#1140)
Reference: https://github.com/cryptic/slither/wiki/Detector-Documentation#variable-names-too-similar
```

```
SpongebobInu.setSwapTokensAtAmount(uint256) (contracts/Token.sol#1706-1713) uses literals with too many digits:
  - require(bool,string)(newAmount > totalSupply() / 100000,SwapTokensAtAmount must be greater than 0.001% of total supply) (contracts/Token.sol#1707-1710)
SpongebobInu.updateGasForProcessing(uint256) (contracts/Token.sol#1748-1759) uses literals with too many digits:
  - require(bool,string)(newValue >= 200000 && newValue <= 500000,gasForProcessing must be between 200,000 and 500,000) (contracts/Token.sol#1749-1752)
SpongebobInu.slitherConstructorVariables() (contracts/Token.sol#1306-1880) uses literals with too many digits:
  - gasForProcessing = 3000000 (contracts/Token.sol#1345)
Reference: https://github.com/cryptic/slither/wiki/Detector-Documentation#too-many-digits
```

```
SafeMathInt.MAX_INT256 (contracts/Token.sol#125) is never used in SafeMathInt (contracts/Token.sol#123-165)
Reference: https://github.com/cryptic/slither/wiki/Detector-Documentation#unused-state-variable
```

```
ERC20.antiBotEnabled (contracts/Token.sol#722) should be constant
ERC20.pinkAntiBot (contracts/Token.sol#721) should be constant
SpongebobInu.DEAD (contracts/Token.sol#1332) should be constant
SpongebobInu.rewardToken (contracts/Token.sol#1344) should be constant
SpongebobInu.swapWithLimit (contracts/Token.sol#1337) should be constant
Reference: https://github.com/cryptic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant
```

```
ERC20.antiBotEnabled (contracts/Token.sol#722) should be immutable
ERC20.pinkAntiBot (contracts/Token.sol#721) should be immutable
SpongebobInu.uniswapV2Pair (contracts/Token.sol#1330) should be immutable
SpongebobInu.uniswapV2Router (contracts/Token.sol#1329) should be immutable
Reference: https://github.com/cryptic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```



FUNCTIONAL TESTING

1- Adding liquidity (passed):

<https://testnet.bscscan.com/tx/0x7d17dc1b304b328094ca401ab7552afce505d486409ba9b2d1914e693c1a2956>

2- Buying when excluded from fees (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x5c01fa9829716c62d56b66b9a84a40816f31962e41c9e5f21af1944772b669d6>

3- Selling when excluded from fees (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x980e79d1b97cd5e191a32011d6c17714009b0f32e590f27b34a5c39b54800b82>

4- Transferring when excluded from fees (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x0664673a4cea3fda66c8e06a1f09d978d7a7ef770e8e61d5e1b3b145e78c7046>

5- Buying when not excluded from fees (10% tax) (passed):

<https://testnet.bscscan.com/tx/0x7a461d946faa13000c48fa97b2743cc9e2758100b7303c21f8801e8f4ccfe06f>

6- Selling when not excluded from fees (10% tax) (passed):

<https://testnet.bscscan.com/tx/0x17000905025ccd8e14ff28200a9f0ab091f534ce8316013d76a7ded76c05cbbe>

7- Transferring when not excluded from fees (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x172c27f46b16caf02ecc3757b0626649a7e183c8ddb7358c5ca7b9950bffd504>



FUNCTIONAL TESTING

8- Internal swap (passed):

Marketing wallet received BNB

<https://testnet.bscscan.com/address/0xf21d472cf93acc209087a7d260404246742dcda0#internaltx>



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