Submitted audit for **GbtLiquidity** on 23 November 2023

Audit result: Passed

Token Address: - 0xfD609D76DDfa6DAb2944C650981675148E899eB0

Name: GoldenBambooToken

Symbol: GBT **Decimals:** 18

Network: Binance smart chain

Token Type: ERC20

Checksum: 2f36b9f293fd8f6ff54eccdccdf888fd

Testnet version:

The tests were performed using the contract deployed on the Binance smart chain Testnet, which can be found at the following address:

https://testnet.bscscan.com/address/0x335928fce2357f431f18c5e860283d6743243771#code

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.

Static Analysis

A static analysis of the code was performed using Slither.

```
Reentrancy in GbtLiquidity._claim(address,GbtLiquidity.LiquidityInfo) (GbtLiquidity.sol#640-660):
External calls:
                                              - _transfer(_usdt,account,amount) (GbtLiquidity.sol#643)
- Itanisfer_Labot, actoum, camount) (Gottliquidity.sol#a95)

- Itanisfer_Cacount, amount) (Gottliquidity.sol#a96)

State variables written after the call(s):

- totalDividends += amount (Gottliquidity.sol#a96) can be used in cross function reentrancies:

- Gottliquidity.ctalDividends (Gottliquidity.sol#396) can be used in cross function reentrancies:

- Gottliquidity._realVirtualUpool() (Gottliquidity.Sol#396) (Gottliquidity.sol#396)

- Gottliquidity._removeVirtuals(Gottliquidity.sol#396)

- gottliquidity._totalDividends (Gottliquidity.sol#396)

- _removeVirtuals(info) (Gottliquidity.sol#396)

- _removeVirtuals(info) (Gottliquidity.sol#398)

- _removeVirtuals(info) (Gottliquidity.sol#398) can be used in cross function reentrancies:

- Gottliquidity._totalDividends (Gottliquidity.sol#398) can be used in cross function reentrancies:

- Gottliquidity._realVirtualUpool() (Gottliquidity.sol#395-353)

- Gottliquidity._removeVirtuals(Gottliquidity.sol#396)

- _gemoveVirtuals(info) (Gottliquidity.sol#398)

- _removeVirtualS(info) (Gottliquidity.sol#398)

- _virtualLPPOOl = 0 (Gottliquidity.sol#392)

Gottliquidity._virtualLPPOOl (Gottliquidity.sol#392)

Gottliquidity._virtualLPPOOl (Gottliquidity.sol#393)

- Gottliquidity._virtualLPPOOl (Gottliquidity.sol#393)

- Gottliquidity._dottliquidity.gottliquidity.sol#391-442)

- Gottliquidity._dottliquidity.gottliquidity.sol#391-442)

- Gottliquidity._calculateVirtualLP(uint256) (Gottliquidity.sol#398-498)

- _removeVirtualS(info) (Gottliquidity.sol#398)

- _removeVirtualS(info) (Gottliquidity.sol#398)

- _removeVirtualUpool = 0 (Gottliquidity.sol#398)

- _removeVirtualS(info) 
                                         - IERC20(token).transfer(account,amount) (GbtLiquidity.sol#561)
State variables written after the call(s):
                                    PO:Detectors:
nable.changeOwner(address).newOwner (GbtLiquidity.sol#77) lacks a zero-check on :
—_owner = newOwner (GbtLiquidity.sol#79)
tLiquidity.setAddress(address_uintz56).param (GbtLiquidity.sol#364) lacks a zero-cl
—_token = param (GbtLiquidity_sol#365)
                                termal calls:

transfer(undt, account, anount) (Gbttiquidity, sols601)

transfer(undt, account, anount) (Gbttiquidity, sols601)

tate variables written after the call(s)

removeWirtuals(sinfs) (Gbttiquidity, sols602)

- currentOrderNum = currentOrderNum - 1 (Gbttiquidity, sols806)

- currentOrderNum = 0 (Gbttiquidity, sols8096)

_sincp = 0 (Gbttiquidity, sols607)

userctLaisInfos[sinfo.id],push(CtaisInfo[block, timestamp, anount)) (Gbttiquidity, sols808)

yi n Gbttiquidity, addiquidity(uint256) (Gbttiquidity, sols8091-un2):

ttermal calls:

IERC20 (uset).transferFrom(account, address(this), anount) (Gbttiquidity, sols803)
```

```
### Retrivation of Colliquidity _seapAnd.iquify(uint256) (Obt.iquidity_sel879-692):

### Enternal calis:

- seapAnd.iquify(alphorar folialf_andtres(this)) (Obt.iquidity_sel878)

- __unisapyZhouter_seapExactTokensPorTokensSupportingFeoToransFerTokens(tokenAmount,8,path,to,block.timestamp) (Obt.iquidity_sol878-799)

### For the Colliquidity(unity) (Obt.iquidity_sol879-790)

### For the Colliquidity (Unity) (Obt.iquidity_sol879-790)

### F
```

```
INFO:Detectors:
| Invictor | Invisapy/Zasir. ROMAIN_SERARTOR() (Obt.iquidity, sol#220) is not in mixedCase | Function | Invisapy/Zasir. ROMAIN_SERARTOR() (Obt.iquidity, sol#220) is not in mixedCase | Function | Invisapy/Zasir. ROMAIN_SERARTOR() (Obt.iquidity, sol#220) is not in mixedCase | Function | Invisapy/Zasir. ROMAIN_SERARTOR() (Obt.iquidity, sol#220) is not in mixedCase | Function Ght.iquidity_real/invisal/pasir. Romain_serarcor. Romain_
```

Summary:

- Owner can renounce the ownership.
- Owner can transfer the ownership.
- Owner can set pair.
- Owner can exclude/include wallets from fees.
- Owner can setAutoCompoundFeeReceiver.
- Owner can setSwapBackSettings.
- Owner can set buy and sell fee not more than 10%.
- Owner can set swapthreshold.

Findings: Critical: 0 High: 0 Medium: 0 Low: 2

Suggestions & Optimizations: 3

Centralization – Missing Zero Address

Severity: Low

function: setAddress and setUint

Status: Open Overview:

functions can take a zero address as a parameter (0x00000...). If a function parameter of address type is not properly validated by checking for zero addresses, there could be serious consequences for the contract's functionality.

```
function setAddress(address param, uint status) external onlyOwner {
        if (status == 0) {
            _token = param;
        } else if (status == 1) {
            _broker = param;
        } else if (status == 2) {
            _broker1 = param;
function setUint(uint param, uint status) external onlyOwner {
        if (status == 0) {
            _rewardTimes = param;
        } else if (status == 1) {
            _{minAdd} = param;
        } else if (status == 2) {
            _helpLp = param;
        } else if (status == 3) {
            _calculateVirtualDecimals = param;
```

Suggestion:

It is suggested that the address should not be zero or dead.

Optimization

Severity: Low

subject: Missing Events

Status: Open Overview:

They serve as a mechanism for emitting and recording data onto the blockchain, making it transparent and easily accessible.

```
function setAddress(address param, uint status) external onlyOwner {
       if (status == 0) {
           _token = param;
        } else if (status == 1) {
           _broker = param;
        } else if (status == 2) {
           _broker1 = param;
function setUint(uint param, uint status) external onlyOwner {
       if (status == 0) {
            _rewardTimes = param;
        } else if (status == 1) {
           _minAdd = param;
        } else if (status == 2) {
           _helpLp = param;
        } else if (status == 3) {
           _calculateVirtualDecimals = param;
```

Optimization

Severity: Informational

subject: floating Pragma Solidity version

Status: Open Overview:

It is considered best practice to pick one compiler version and stick with it. With a floating pragma, contracts may accidentally be deployed using an outdated.

pragma solidity ^0.8.19;

Suggestion

Adding the latest constant version of solidity is recommended, as this prevents the unintentional deployment of a contract with an outdated compiler that contains unresolved bugs.

Optimization

Severity: Informational

subject: uint256 Status: Open Overview:

Use uit256 instead of uint. uint is an alias for uint256 and is not recommended for use. The variable size should be clarified, as this can cause issues when encoding data with selectors if the alias is mistakenly used within the signature string.

Optimization

Severity: Informational subject: Remove Safe Math

Status: Open **Line:** 93 - 151

Overview:

compiler version above 0.8.0 has the ability to control arithmetic overflow/underflow, It is recommended to remove the unwanted code in order to avoid high gas fees.