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AUDIT COMPANY

# Smart Contract Security Audit

TechRate

November, 2021

# Audit Details



Audited project

**BNBYield**



Deployer address

**0x1D0aE4DBc118F84a2739920393b63ff228c3e818**



Client contacts:

**BNBYield team**



Blockchain

**Binance Smart Chain**



Project website:

**Not provided**

# 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 below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

# Background

TechRate was commissioned by BNB Yield to perform an audit of smart contracts:

<https://bscscan.com/address/0xa5918ed43e6f5210e324bc4486c589155d0ba40d#code>

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

# Contracts Details

Token contract details for 06.11.2021

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Contract name	BNBYield
---------------	----------

Contract address	0xa5918ed43E6F5210e324BC4486c589155d0Ba40D
------------------	--

Contract deployer address	0x1D0aE4DBc118F84a2739920393b63ff228c3e818
---------------------------	--

Contract's current owner address	0x1D0aE4DBc118F84a2739920393b63ff228c3e818
----------------------------------	--

# Contract functions details

## + BNB Yield

- [Pub] <Constructor> #
- [Prv] \_payout #
- [Prv] \_refPayout #
- [Prv] \_setUpLine #
- [Ext] deposit (\$)
- [Ext] withdraw #
- [Ext] payoutOf
- [Ext] userInfo
- [Ext] contractInfo
- [Ext] reinvest #
- [Ext] invest (\$)
- [Ext] invest (\$)
- [Pub] emergency #

(\$) = payable function

# = non-constant function

# Issues Checking Status

Issue description		Checking status
1.	Compiler errors.	Passed
2.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
3.	Possible delays in data delivery.	Passed
4.	Oracle calls.	Passed
5.	Front running.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow.	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Passed
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	The impact of the exchange rate on the logic.	Passed
13.	Private user data leaks.	Passed
14.	Malicious Event log.	Passed
15.	Scoping and Declarations.	Passed
16.	Uninitialized storage pointers.	Passed
17.	Arithmetic accuracy.	Passed
18.	Design Logic.	Passed
19.	Cross-function race conditions.	Passed
20.	Safe Open Zeppelin contracts implementation and usage.	Passed
21.	Fallback function security.	Passed

# Security Issues

## ✓ High Severity Issues

No high severity issues found.

## ✓ Medium Severity Issues

No medium severity issues found.

## ✓ Low Severity Issues

No low severity issues found.

## Owner privileges (In the period when the owner is not renounced)

- Owner can withdraw contract BNBs.

```
function emergency() public {  
  require(owner == msg.sender);  
  payable(msg.sender).transfer(address(this).balance);  
}
```



# Conclusion

Smart contracts do not contain high severity issues! Smart contracts contain owner privileges. The further transfers and operations with the funds raise are not related to this particular contract. 10% of the user deposit always transfers to the owner. Users can deposit BNBs and after some time withdraw them with an additional percent. For example, after 7 days from the deposit, you can withdraw 119% amount and receive some additional referral bonuses also. If will be no BNBs on the contract, so users can't withdraw their money.

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## *TechRate note:*

*Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.*



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