



BLOCK AUDIT REPORT

Smart Contract Security Audit Report





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Block Audit Report Team received the PEVATAR team's application for smart contract security audit of the PEVATAR Token on September 27, 2021. The following are the details and results of this smart contract security audit:

Name: PEVATAR

The Contract address: 0x442D4C9420264611556b2f63EEB55626ee8ea3d5

Link Address:

<https://bscscan.com/address/0x442d4c9420264611556b2f63eeb55626ee8ea3d5#code>

The audit items and results:

(Other unknown security vulnerabilities are not included in the audit responsibility scope)

Audit Result: Passed

Audit Number: BAR0011427092021

Audit Date: September 27, 2021

Audit Team: Block Audit Report Team



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Introduction

This Audit Report mainly focuses on the overall security of PEVATAR platform Smart Contract. With this report, we have tried to ensure the reliability and correctness of their smart contract by complete and rigorous assessment of their system's architecture and the smart contract codebase.

Auditing Approach and Methodologies applied

The Block Audit Report team has performed rigorous testing of the project starting with analyzing the code design patterns in which we reviewed the smart contract architecture to ensure it is structured and safe use of third-party smart contracts and libraries.

Our team then performed a formal line by line inspection of the Smart Contract to find any potential issue like race conditions, transaction-ordering dependence, timestamp dependence, and denial of service attacks.

In the Unit testing Phase, we coded/conducted custom unit tests written for each function in the contract to verify that each function works as expected.

In Automated Testing, we tested the Smart Contract with our in-house developed tools to identify vulnerabilities and security flaws.

The code was tested in collaboration of our multiple team members and this included -

- Testing the functionality of the Smart Contract to determine proper logic has been followed throughout the whole process.
- Analyzing the complexity of the code in depth and detailed, manual review of the code, line-by-line.
- Deploying the code on testnet using multiple clients to run live tests.
- Analyzing failure preparations to check how the Smart Contract performs in case of any bugs and vulnerabilities.
- Checking whether all the libraries used in the code are on the latest version.
- Analyzing the security of the on-chain data.

Audit Details

Project Name: **PEVATAR**

Website/ Bscscan Code (Mainnet):

0x442D4C9420264611556b2f63EEB55626ee8ea3d5

Languages: Solidity (Smart contract)

Platforms and Tools: Remix IDE, Truffle, Truffle Team, Ganache, Solhint, VScode, Mythril, Contract Library



Audit Goals

The focus of the audit was to verify that the Smart Contract System is secure, resilient and working according to the specifications. The audit activities can be grouped in the following three categories:

Security

Identifying security related issues within each contract and the system of contract.

Sound Architecture

Evaluation of the architecture of this system through the lens of established smart contract best practices and general software best practices.

Code Correctness and Quality

A full review of the contract source code. The primary areas of focus include:

- Accuracy
- Readability
- Sections of code with high complexity
- Quantity and quality of test coverage

Issue Categories

Every issue in this report was assigned a severity level from the following:

High level severity issues

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium level severity issues

1. Issues on this level could potentially bring problems and should eventually be fixed.

Low level severity issues

Issues on this level are minor details and warnings that can remain unfixed but would be better fixed at some point in the future.



Issues Checking Status

No	Issue description.	Checking status
1	Compiler warnings.	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.	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 Zeppelin module.	Passed
21	Fallback function security.	Passed



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Manual Audit:

For this section the code was tested/read line by line by our developers. We also used Remix IDE's JavaScript VM and Kovan networks to test the contract functionality.

Files in scope

All solidity files in:

<https://bscscan.com/address/0x442d4c9420264611556b2f63eeb55626ee8ea3d5#code>

File 1 of 12: Pevatar.sol	Passed
File 2 of 12: Address.sol	Passed
File 3 of 12: BEP20.sol	Passed
File 4 of 12: BPContract.sol	Passed
File 5 of 12: Context.sol	Passed
File 6 of 12: IBEP20.sol	Passed
File 7 of 12: IUniswapV2Factory.sol	Passed
File 8 of 12: IUniswapV2Router01.sol	Passed
File 9 of 12: IUniswapV2Router02.sol	Passed
File 10 of 12: Ownable.sol	Passed
File 11 of 12: ReentrancyGuard.sol	Passed
File 12 of 12: SafeMath.sol	Passed

85070ad6c53d4d524be45b78ee17dc0284573a945333fd471e1e35f9c881e91e

File: Pevatar.... | Language: solidity | Size: 46234 bytes | Date: 2021-09-27T11:32:08.254Z

Critical	High	Medium	Low	Note
0	0	0	0	0





Issues :

Critical Severity Issues

No critical severity issues found.

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

None



Automated Audit

Remix Compiler Warnings

It throws warnings by Solidity's compiler. If it encounters any errors the contract cannot be compiled and deployed.

The screenshot shows the Remix IDE interface with the Solidity Compiler tab selected. The compiler version is set to 0.8.7+commit.e28d00a7. The language is set to Solidity, and the EVM version is compiler default. Compiler configuration includes Auto compile (checked), Enable optimization (checked), and a dropdown for optimization level set to 200. There is also a Hide warnings checkbox. A large blue button at the bottom of the compiler section says "Compile Pevatar.sol". Below the compiler, there is a CONTRACT section with an Address input field containing "Address (Pevatar.sol)". Underneath the address is a "Publish on Ipfs" button with an IPFS icon. Further down is a "Compilation Details" section with ABI and Bytecode links. On the far left, there is a vertical sidebar with icons for different tools and features.

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.



Summary

Smart contracts do not contain any high severity issues!

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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