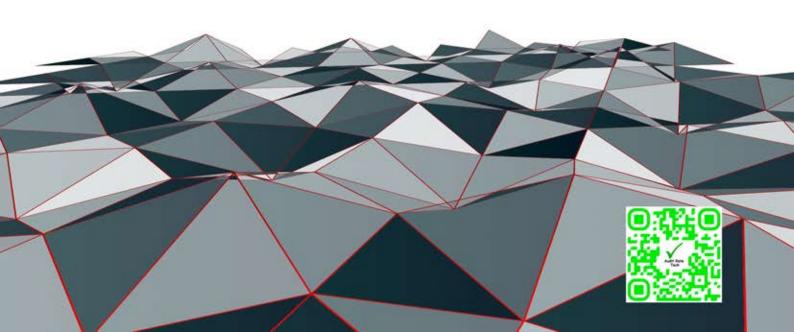
# Smart Contract Security Audit AUDIT RATE TECH for PSTAR







## 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.

## Audit details:

Audited project: PSTAR

Total supply: 2,000,000,000

Token ticker: P-S-T-A-R

Decimals: 9

Contract address: 0x5e154779357BB42C2654bdEff61d3528F60F662C

Languages: Solidity (Smart contract)

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

**Contract Library** 

Compiler Version: v0.8.13+commit.abaa5c0e

Optimization Enabled: Yes with 200 runs

Contract Deployer Address: 0x0bc1789613A92696477a2f8E8C7099BEC5F21082

Blockchain: Binance Smart Chain

Project website: http://www.park-star.com/

The audit items and results:

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

Audit Result: Passed

Audit Date: May 2, 2022

Audit Team: AUDIT RATE TECH

https://www.auditrate.tech

## Introduction

This Audit Report mainly focuses on the overall security of PSTAR 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 AUDIT RATE TECH 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, lineby-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 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

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.

## **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.

#### **Automated Audit**

Remix Compiler Warnings

It throws warnings by Solidity's compiler. If it encounters any errors the contract cannot be compiled and deployed. No issues found.

# Number of issues per severity

Critical	High	Medium	Low	Note
0	0	0	3	0

# 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.	Low	
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	

# **Owner privileges**

- 428 renounceOwnership
- 437 transferOwnership
- 448 lock
- 823 excludeFromReward
- 833 includeInReward
- 846 excludeFromFee
- 850 includeInFee
- 854 Exclude
- 858 Include
- 862 changeSellFees
- 868 ChangeBurnAddress
- 873 setLiquidityAddress
- 877 setRouter
- 894 setAutomatedMarketMakerPair

## Conclusion

# Owner can set fees for sell without limit

function changeSellFees(uint256 taxFee, uint256 burn, uint256 liquidityFee) external onlyOwner() {

*S\_taxFee* = *taxFee*;

S BurnFee = burn;

*S\_liquidityFee* = *liquidityFee*; }

# No mint function found Owner cannot set max tx amount Owner cannot pause trading

Smart contracts contains the following risks:

## **Out of gas**

Issue:

includeInReward()

The function includeInReward() also uses the loop for evaluating total supply. It also could be aborted with OUT\_OF\_GAS exception if there will be a long excluded addresses list.

## **Recommendation:**

Check that the excluded array length is not too big.

## **Out of gas**

Issue:

getRate()

The function getRate also uses the loop for evaluating reflect rate. It also could be aborted with OUT\_OF\_GAS exception if there will be a long excluded addresses list.

## **Recommendation:**

Check that the array length is not too big.

## Out of gas

Issue:

getCurrentSupply()

The function getCurrentSupply also uses the loop for evaluating total supply. It also could be aborted with OUT\_OF\_GAS exception if there will be a long excluded addresses list.

## **Recommendation:**

Check that the excluded array length is not too big.

#### 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. The analysis of the contract does not give complete security and includes only the analysis that is indicated in the report. We do not analyze locked tokens or LP tokens, the presence of KYC in other companies, and so on. Also, our audit is not a recommendation for investment. All responsibility for the loss of investment lies with you!

# Website Audit

Address	http://www.park-star.com/		
Domain registration	3 years		
Domain	Clean		
Web server	LiteSpeed		
The server is located	NL		
Server response time	0 sec		
SSL certificate	Yes		
JavaScript errors	Not found		
Typos, or grammatical errors	Not found		
Issues with loading elements, code, or stylesheets	Not found		
Malware	Not found		
Injected spam	Not found		
Internal server errors	Not found		
Popups	Not found		
Blocking files	Not found		
Mobile Friendly	Yes		
Compress CSS files	Optimized		
Compress JS files	Optimized		
Image compression	Optimized		
Visible content	Optimized		
Social Media/contacts	Yes		
Roadmap	Yes		

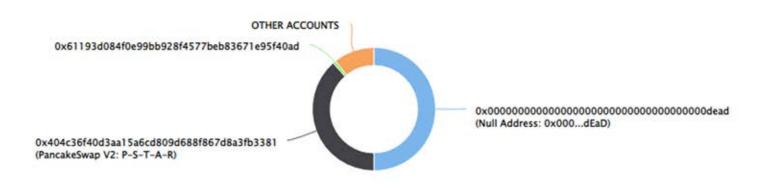
# Top Token Holders

## At the time of the audit

The top 3 holders collectively own 89.30% (1,786,043,720.27 Tokens) of PSTAR Token Total Supply: 2,000,000,000.00 Token | Total Token Holders: 3,823

## PSTAR Top 3 Token Holders

Source: BscScan.com



(A total of 1,786,043,720.27 tokens held by the top 3 accounts from the total supply of 2,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	Null Address: 0x000dEaD	1,000,000,000	50.0000%
2	PancakeSwap V2: P-S-T-A-R	769,751,416.466478628	38.4876%
3	0x61193d084f0e99bb928f4577beb83671e95f40ad	16,292,303.80332817	0.8146%

# KYC/Doxx

At the time of the audit, there is no information about the conduct of KYC / Doxx

# THANK YOU!