



SMART CONTRACT SECURITY AUDIT

WATCHTOWER

DISCLAIMER

Watchtower has completed this report to provide a summary of the Smart Contract functions, and any security, dependency or cybersecurity vulnerabilities. This is often a constrained report on our discoveries based on our investigation and understanding of the current programming versions as at the date of this report. In order to understand the full scope of our analysis, it is vital for you to review the complete report. Although we have done our best in conducting our investigation and creating this report, it is vital to note that you should not depend on this report and cannot make any claim against Watchtower or its Subsidiaries and Team members on the premise of what has or has not been included in the report. Please remember to conduct your own independent examinations before making any investment choices. We do not provide investment advice or in any way claim to determine if the project will be successful or not.

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ABOUT THE AUDITOR:

Watchtower is an Anti-Scam Token Utility which reviews Smart Contracts and Token information to Identify Rug Pull and Honey Pot scamming activity.

Watchtowers Development Team consists of a number of Smart Contract creators, Auditors Developers and Blockchain experts.

Watchtowers Website Scanner reviews a number of Risk factors to provide an adequate Risk summary of token projects.

In Addition to this the team also helps with Creation of Smart Contracts for legitimate projects, Audits and Promotion.





OVERVIEW

Watchtower was commissioned by RewardX to complete a Smart Contract audit.

The objective of the Audit is to achieve the following:

- Review the Project and experience and Development team
- Ensure that the Smart Contract functions are necessary and operate as intended.
- Identify any vulnerabilities in the Smart Contract code.

DISCLAIMER: This Audit is intended to inform about token Contract Risks, the result does not imply an endorsement or provide financial advice in any way, All investments are made at your own risk.

(<https://www.cryptowatchtower.io/>)



SMART CONTRACT REVIEW



Contract Created on the 22nd November 2021

Solidity compiler v0.8.4

Contract name	RewardX
Contract address	0x4189B652Da0666DCbA56FD106119b7A4db0f1789
Total supply	1,000,000,000,000,000
Token ticker	REX
Decimals	9
Token holders	4
Transactions count	1
Top 5 holders dominance	Not Launched
Tax fee	10%
Total fees	10% ~ BUY / 10% ~ SELL
Contract deployer address	0xc762879Edd0a994e349F475E99Efe0C2fcf0fb32
Contract's current owner address	0x84e55c491ebab357f5d7e8418daf2c1f7020f8e1



Project Overview



Project Details: (Website: <https://rewardsx.io/>)

RewardsX works on an autonomous frictionless yield farming and liquidity generation protocol. Hold \$REX tokens in your wallet and earn passive income in ETH & Londex. Since Londex is already giving ETH rewards, your reflections will multiply!

Tokenomics:

Supply: 1,000,000,000,000,000 (1 Quadrillion)

10% Tax for Buys and Sells comprising of:

- 4% ETH Rewards
- 3% Londex Rewards
- 2% Marketing Fee
- 1% Liquidity

Team Review:

Watchtower reviewed a number of factors including the teams background and Cryptocurrency experience, social media interaction and availability, project momentum, token risks and community trust score.

The RewardX team have a good understanding of Cryptocurrency.

Their website is professionally built and the team are proposing to build an exponential rewards system that provides token and NFT rewards to holders.

TEAM DOXXED/KYC:

The RewardX team have completed a KYC through Dessert Finance.



CONTRACT FUNCTIONS DETAILS

Functions (Public)

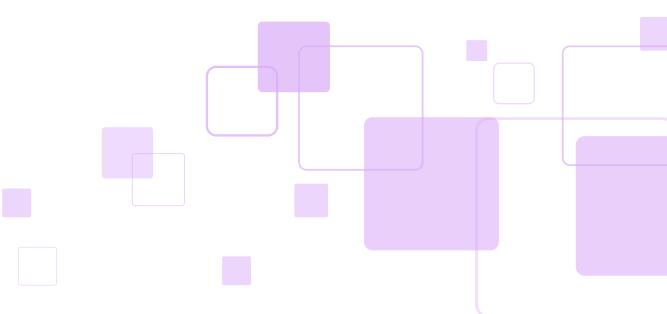
This contract has 26 available public functions which the owner can call.
They can be viewed on BSC Scan.

LINK:

<https://bscscan.com/token/0x4189b652da0666dcba56fd106119b7a4db0f1789#writeContract>

Function risks:

-No scam functions identified.



Contract Stress Test

Imported Libraries / Interfaces

- ERC20
- SafeMath
- Ownable
- interfaces
- IERC20
- IERC20Metadata
- Context

Overview

1. ADDITION OF COMMENTS:	7
2. CALL STACK DEPTH ATTACK:	10
3. TIME STAMP DEPENDENCY:	10
4. PARTY MULTISIG BUG:	10
5. USE OF LIBRARIES/DEPENDENCIES (FROM TRUSTED SOURCES):	10
a. TRANSACTION-ORDERING DEPENDENCY:	10
6. ACCESS CONTROL AND AUTHORIZATION:	10
7. REENTRANCY ATTACKS:	10
8. ERC/BEP STANDARD VIOLATIONS:	10
9. USAGE OF VISIBILITY LEVELS:	10



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



Issue description	Checking status
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

Nil



Medium Severity Issues

Centralization Risk: (Common with Rewards Contracts)

1. Owner can set maxBuyTransaction and maxSellTransaction to 0 blocking any transfer
2. Owner can set fees to 100% blocking trades



Low Severity Issues

Wrong Code:

The contract may charge fees even if the recipient is excluded from fees.
If the recipient of a transfer is excluded from fees, takeFee should be false



CONCLUSION

Watchtower reviewed the RewardX deployed and verified contract to conduct this audit.

Watchtower is satisfied that the contract is void of any malicious coding and that the team are operating with integrity.

Watchtower Disclaimer:

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