



Preliminary Notes: Harambe Protocol (RIPH)

Brewlabs Services Hub

Summary: Harambe Protocol is an IERC20 token smart contract deployed on the BSC network. It is written in Solidity and compiled using build 0.8.10.

Audit package: Standard security

Deployment Status: Deployed to BSC Mainnet

Files Audited: Single file deployment on Mainnet

Audit Result: **Security PASSED**

Audit logic result: **Not tested**

Disclaimer: This audit documentation is for discussion purposes only. The scope of this audit was to analyze and document Harambe Protocol smart contract codebase for quality, security, and correctness. This audit guarantees that your code has been revised by an expert.

Overview of Audit

0 critical security issues identified.

0 major security issue identified.

Several minor and informational issues identified across security.

Security issues

Minor level security issues detected:

1. Missing events for changes to state variables in various functions (Line 531). This means only the contract owner can alter state variables without the community being aware of changes. Recommendation is to add events for all changes to state variables or communicate to community when relevant changes are committed to improve transparency.
1. Floating pragma set (Line 14, 41, 126, 156, 511). If relying on byte-code level verification, best practice is to lock the compiler version prior to deployment.

Informational issues detected:

1. Layout of the file does not follow [Solidity Guidelines](#).
2. Revise file for spelling mistakes (Line 528)
3. Moderate use of comments. Comments help to improve readability and is encouraged. Refer to the [NatSpec Solidity](#) guidelines for further information.
4. No [SPDX License](#) is specified in the file, however there is a license specified in BSCScan (*None*). Recommendation is to add a SPDX licence in the file and ensure its consistent with the licence selected for BSCScan.



Conclusion: The Brewlabs team thank you for the opportunity to review and audit your smart contact code. The data from this report will be formalised in the audit publication for your community. Keep in touch as we offer discounts for repeat business and on a range of other services!
The Brewlabs Team.