



**SMART CONTRACT SECURITY AUDIT**  
**for**  
**GEMPAD (\$GEMS)**

May 4<sup>th</sup>, 2022

## **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. 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:** GemPad

**Total supply:** 100,000,000

**Token ticker:** GEMS

**Decimals:** 9

**Contract address:** 0x78Aae7e000Bf6FC98a6b717d5eC8Ef2bcd04F428

**Languages:** Solidity (Smart contract)

**Contract Library Compiler Version:** pragma solidity ^0.8.13

**Optimization Enabled:** Yes with 200 runs

**Contract Deployer Address:** 0x5E416Ed4599b6EE0Dc83389316B0e83829674476

**Blockchain:** Binance Smart Chain

**Project website:** <https://gempad.app/>

**Audit Result:** Passed.

**Audit Date:** May 4<sup>th</sup>, 2022

**Audit Team:** SUS AUDITS

<https://www.sustainablerewards.net/sus-audits>

## ISSUES CHECKING STATUS

No	Issue	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 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

## **ISSUES SUMMARY**

Please note that we only provide low, medium and high severity issues in the report. Informational issues are communicated to the team since they add no value to the report/investment decisions.

**LOW SEVERITY :** NONE

**MEDIUM SEVERITY:** NONE

**HIGH SEVERITY:** NONE

## **IMPORTANT OWNER PRIVILEGES**

- Exclude addresses from fees
- Exclude addresses from max transaction limits
- Renounce ownership
- Transfer ownership
- Set gas price limit - however, the limit cannot be set to less than 10,000,000.
- Change the treasury, liquidity and marketing fees receivers
- Change buy and sell fees - however, the sum of fees cannot be set to higher than 30% per transaction

## Conclusions

- No serious issues.
- No malicious owner privileges.