

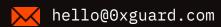
Smart contracts security assessment

Final report
 Tariff: Top

DIB Yield

April 2023





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□ Introduction

The report has been prepared for **DIB Yield**.

The code is available at <u>DIB-yield/smart-contracts</u> Github repository and was audited after the commit <u>a3531b2</u>.

Update. The recheck was done after the commit <u>caf0504</u>.

Name	DIB Yield
Audit date	2023-04-01 - 2023-04-05
Language	Solidity
Platform	Arbitrum Network

Contracts checked

Name	Address	
D''.		

DibYieldMasterChef

DibYieldToken

Procedure

We perform our audit according to the following procedure:

Automated analysis

- Scanning the project's smart contracts with several publicly available automated Solidity analysis tools
- Manual verification (reject or confirm) all the issues found by the tools

Manual audit

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- Manually analyze smart contracts for security vulnerabilities
- Smart contracts' logic check

Known vulnerabilities checked

Title	Check result
Unencrypted Private Data On-Chain	passed
Code With No Effects	passed
Message call with hardcoded gas amount	passed
Typographical Error	passed
DoS With Block Gas Limit	passed
Presence of unused variables	passed
Incorrect Inheritance Order	passed
Requirement Violation	passed
Weak Sources of Randomness from Chain Attributes	passed
Shadowing State Variables	passed
Incorrect Constructor Name	passed
Block values as a proxy for time	passed
Authorization through tx.origin	passed
DoS with Failed Call	passed
Delegatecall to Untrusted Callee	passed
Use of Deprecated Solidity Functions	passed
Assert Violation	passed
State Variable Default Visibility	passed
Reentrancy	passed

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 Unprotected SELFDESTRUCT Instruction
 passed

 Unprotected Ether Withdrawal
 passed

 Unchecked Call Return Value
 passed

 Floating Pragma
 passed

 Outdated Compiler Version
 passed

 Integer Overflow and Underflow
 passed

 Function Default Visibility
 passed

Classification of issue severity

High severity High severity issues can cause a significant or full loss of funds, change

of contract ownership, major interference with contract logic. Such issues

require immediate attention.

Medium severity Medium severity issues do not pose an immediate risk, but can be

detrimental to the client's reputation if exploited. Medium severity issues may lead to a contract failure and can be fixed by modifying the contract

state or redeployment. Such issues require attention.

Low severity Low severity issues do not cause significant destruction to the contract's

functionality. Such issues are recommended to be taken into

consideration.

Issues

High severity issues

No issues were found

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Medium severity issues

1. No lock check in the emergencyWithdraw function (DibYieldMasterChef)

Status: Fixed

The user can lock deposited tokens for a specified amount of time for a deposit discount, but the lock can be circumvented with the emergencyWithdraw function as it does not check for the unlock time.

```
function emergencyWithdraw(uint256 _pid) external nonReentrant {
    PoolInfo storage pool = poolInfo[_pid];
   UserInfo storage user = userInfo[_pid][msg.sender];
   uint256 amount = user.amount;
   user.amount = 0:
   user.rewardDebt = 0;
   pool.totalStaked = pool.totalStaked.sub(amount);
   pool.stakeToken.safeTransfer(address(msg.sender), amount);
    emit EmergencyWithdraw(msg.sender, _pid, amount);
}
```

Recommendation: Add a requirement check require (user.unlockTime <= block.timestamp, "not yet"); in the emergencyWithdraw() function.

Update: The required check was added in the update.

Low severity issues

1. Gas optimization (DibYieldMasterChef)

Status: Fixed

- 1. The Solidity 8 has built-in overflow checks and usage of SafeMath library is unnecessary.
- 2. Mapping pool Existance is not used anywhere in the code.

Recommendation: Remove the SafeMath library and not used mapping.

Team response: The SafeMath was left in the code to minimize risk of errors removing it from the

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original code.

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○ Conclusion

DIB Yield DibYieldMasterChef, DibYieldToken contracts were audited. 1 medium, 1 low severity issues were found.

1 medium, 1 low severity issues have been fixed in the update.

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