

hi Dollar Smart Contract Audit Report





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AUDITED DETAILS

| Audited Project

Project name	Token ticker	Blockchain	
hi Dollar	HI	Binance Smart Chain	

Addresses

Contract address	0x77087ab5df23cfb52449a188e80e9096201c2097
Contract deployer address	0x7E700B8da2d3E1082F4F5a94F91532bdc6B89066

Project Website

https://hi.com/

Codebase

https://bscscan.com/address/0x77087ab5df23cfb52449a188e80e9096201c2097#code



SUMMARY

hi Reserve Limited ("Hi") and its affiliates are creating the hi platform. All references to "Hi" in this document refer to the issuing entity and all references to "hi" in this document refer to the platform, unless otherwise expressly stated. Our aim is to bring an innovative range of mobile and online financial services to eligible users, leveraging blockchain technology. We intend to operate across the globe, with a strong focus on financial inclusion, security and compliance.

Contract Summary

Documentation Quality

hi Dollar provides a very good documentation with standard of solidity base code.

• The technical description is provided clearly and structured and also dont have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

 Standard solidity basecode and rules are already followed by hi Dollar with the discovery of several low issues.

Test Coverage

Test coverage of the project is 100% (Through Codebase)

Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 735.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 397, 416, 438, 471, 473, 494, 495, 520, 522, 633, 725, 726, 726, 759, 762, 783, 783, 789, 789, 793, 1176, 1176, 1178, 1186, 1194 and 726.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 11, 37, 129, 213, 242, 599 and 642.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 794.



CONCLUSION

We have audited the hi Dollar project released on October 2021 to discover issues and identify potential security vulnerabilities in the hi Dollar Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides satisfactory results with low-risk issues.

The issues found in the hi Dollar smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some arithmetic operation issues, a floating pragma is set, a state variable visibility is not set, and out-of-bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value. The current pragma Solidity directive is ""^0.8.0"". Specifying a fixed compiler version is recommended to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code. For state variable visibility is not set, it is best practice to set the visibility of state variables explicitly. The default visibility for "approverCount" is internal. Other possible visibility settings are public and private.



AUDIT RESULT

Article	Category	Description	Result	
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	ISSUF	
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND	
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS	
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND	
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS	
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS	
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS	
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	PASS	
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS	
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a ISSUE failing assert statement. FOUND		
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS	
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.	PASS	



DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id	
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	
Shadowing State Variable	SWC-119	19 State variables should not be shadowed.	
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	
Write to Arbitrary Storage Location	SWC-124	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.	
Incorrect Inheritance Order	SWC-125	WC-125 When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	
Insufficient Gas Griefing	SWC-126	Insufficient gas griefing attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS



Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	
Hash Collisions Variable	SWC-133	-133 Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	PASS



SMART CONTRACT ANALYSIS

Started	Thursday Oct 21 2021 02:13:29 GMT+0000 (Coordinated Universal Time)		
Finished	Friday Oct 22 2021 18:05:14 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	hiDollar.sol		

Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "-=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "-=" DISCOVERED	low	acknowledged
SWC-101	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged



LINE 397

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
396 unchecked {
397 _approve(sender, _msgSender(), currentAllowance - amount);
398 }
399
400 return true;
401
```



LINE 416

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol



LINE 438

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
437 unchecked {
438 _approve(_msgSender(), spender, currentAllowance - subtractedValue);
439 }
440
441 return true;
442
```



LINE 471

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
470 unchecked {
471 _balances[sender] = senderBalance - amount;
472 }
473 _balances[recipient] += amount;
474
475
```



LINE 473

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
472 }
473 _balances[recipient] += amount;
474
475 emit Transfer(sender, recipient, amount);
476
477
```



LINE 494

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
493
494 _totalSupply += amount;
495 _balances[account] += amount;
496 emit Transfer(address(0), account, amount);
497
498
```



LINE 495

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
__totalSupply += amount;

495    __balances[account] += amount;

496    emit Transfer(address(0), account, amount);

497

498    __afterTokenTransfer(address(0), account, amount);

499
```



LINE 520

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
519 unchecked {
520   _balances[account] = accountBalance - amount;
521  }
522   _totalSupply -= amount;
523
524
```



LINE 522

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
521 }
522 _totalSupply -= amount;
523
524 emit Transfer(account, address(0), amount);
525
526
```



LINE 633

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
632 unchecked {
633 _approve(account, _msgSender(), currentAllowance - amount);
634 }
635 _burn(account, amount);
636 }
637
```



LINE 725

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
vint256 public constant RATIO_DECIMALS = 4; /** ratio decimals */
uint256 public constant RATIO_PRECISION = 10 ** RATIO_DECIMALS /** ratio precision?
uint256 public constant MAX_FEE_RATIO = 1 * RATIO_PRECISION - 1; /** max fee ratio,
uint256 public constant MIN_APPROVE_RATIO = 6666 ; /** min approve ratio, 66.66% */
uint256 public constant MIN_APPROVE_RATIO = 6666 ; /** min approve ratio, 66.66% */
```



LINE 726

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
725  uint256 public constant RATIO_PRECISION = 10 ** RATIO_DECIMALS /** ratio precision?
10000 */;
726  uint256 public constant MAX_FEE_RATIO = 1 * RATIO_PRECISION - 1; /** max fee ratio,
100% */
727  uint256 public constant MIN_APPROVE_RATIO = 6666 ; /** min approve ratio, 66.66% */
728
729  enum ApprovedStatus { NONE, STARTED, APPROVED, OPPOSED }
730
```



LINE 726

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
725  uint256 public constant RATIO_PRECISION = 10 ** RATIO_DECIMALS /** ratio precision?
10000 */;
726  uint256 public constant MAX_FEE_RATIO = 1 * RATIO_PRECISION - 1; /** max fee ratio,
100% */
727  uint256 public constant MIN_APPROVE_RATIO = 6666 ; /** min approve ratio, 66.66% */
728
729  enum ApprovedStatus { NONE, STARTED, APPROVED, OPPOSED }
730
```



LINE 759

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
758 Approvers[account] = true;
759 approverCount += 1;
760 } else {
761 delete Approvers[account];
762 approverCount -= 1;
763
```



LINE 762

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
761 delete Approvers[account];
762 approverCount -= 1;
763 }
764 emit ApproverChanged(account, approve);
765 }
766
```



LINE 783

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
782
783 return approvedCount * RATIO_PRECISION / approverCount >= MIN_APPROVE_RATIO;
784 }
785
786 function _isProposalOpposed(uint256 opposedCount) internal view returns(bool) {
787
```



LINE 783

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
782
783 return approvedCount * RATIO_PRECISION / approverCount >= MIN_APPROVE_RATIO;
784 }
785
786 function _isProposalOpposed(uint256 opposedCount) internal view returns(bool) {
787
```



LINE 789

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
788
789 return opposedCount * RATIO_PRECISION / approverCount > RATIO_PRECISION -
MIN_APPROVE_RATIO;
790 }
791
792 function _existIn(address account, address[] memory accounts) internal pure returns(bool) {
793
```



LINE 789

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
788
789 return opposedCount * RATIO_PRECISION / approverCount > RATIO_PRECISION -
MIN_APPROVE_RATIO;
790 }
791
792 function _existIn(address account, address[] memory accounts) internal pure returns(bool) {
793
```



LINE 789

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
788
789 return opposedCount * RATIO_PRECISION / approverCount > RATIO_PRECISION -
MIN_APPROVE_RATIO;
790 }
791
792 function _existIn(address account, address[] memory accounts) internal pure returns(bool) {
793
```



LINE 793

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
function _existIn(address account, address[] memory accounts) internal pure
returns(bool) {
for (uint256 i = 0; i < accounts.length; i++) {
for (account == accounts[i]) return true;
}
for (account == accounts[i]) return true;
for account false;
for return false;
for accounts[i]</pre>
```



LINE 1176

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
require(amount > 0, "hiDollar: non-positive amount not allowed");
uint256 fee = amount * _getUserFeeRatio(sender) / RATIO_PRECISION;
if (fee > 0) {
  require(balanceOf(sender) >= amount + fee, "hiDollar: insufficient balance");
}
1179 }
1180
```



LINE 1176

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
require(amount > 0, "hiDollar: non-positive amount not allowed");
uint256 fee = amount * _getUserFeeRatio(sender) / RATIO_PRECISION;
if (fee > 0) {
  require(balanceOf(sender) >= amount + fee, "hiDollar: insufficient balance");
}
1179 }
1180
```



LINE 1178

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
if (fee > 0) {
   require(balanceOf(sender) >= amount + fee, "hiDollar: insufficient balance");
    }
   l180
   super._transfer(sender, recipient, amount);
   1182
```



LINE 1186

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
1185    super._transfer(sender, address(this), fee);
1186    fees += fee;
1187    emit FrictionFee(sender, fee);
1188    }
1189  }
1190
```



SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 1194

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
require(amount <= fees, "hiDollar: the amount exceeds the collectable fees");

fees -= amount;

super._transfer(address(this), msg.sender, amount);

emit FeeCollected(feeCollector, amount);

return true;

1198
```



SWC-101 | COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED

LINE 726

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- hiDollar.sol

```
725    uint256    public constant RATIO_PRECISION = 10 ** RATIO_DECIMALS /** ratio precision?
10000 */;
726    uint256    public constant MAX_FEE_RATIO = 1 * RATIO_PRECISION - 1; /** max fee ratio,
100% */
727    uint256    public constant MIN_APPROVE_RATIO = 6666 ; /** min approve ratio, 66.66% */
728
729    enum ApprovedStatus { NONE, STARTED, APPROVED, OPPOSED }
730
```



LINE 11

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- hiDollar.sol

```
10
11 pragma solidity ^0.8.0;
12
13 /**
14 * @dev Provides information about the current execution context, including the
15
```



LINE 37

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- hiDollar.sol

```
36
37 pragma solidity ^0.8.0;
38
39
40 /**
41
```



LINE 129

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- hiDollar.sol

```
128
129 pragma solidity ^0.8.0;
130
131 /**
132 * @dev Interface of the ERC20 standard as defined in the EIP.
133
```



LINE 213

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- hiDollar.sol

```
212
213 pragma solidity ^0.8.0;
214
215
216 /**
217
```



LINE 242

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- hiDollar.sol

```
241
242 pragma solidity ^0.8.0;
243
244
245
246
```



LINE 599

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- hiDollar.sol

```
598
599 pragma solidity ^0.8.0;
600
601
602
603
```



LINE 642

low SEVERITY

The current pragma Solidity directive is ""^0.8.2"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- hiDollar.sol

```
641
642 pragma solidity ^0.8.2;
643
644 /**
645 * @see
https://docs.soliditylang.org/en/latest/contracts.html?highlight=experimental#return-variables
646
```



SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 735

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "approverCount" is internal. Other possible visibility settings are public and private.

Source File

- hiDollar.sol

```
mapping (address => bool) public Approvers;
uint256 approverCount;
mapping (address => bool) public Proposers;
mapping (address => bool) public Proposers;
mapping (address => bool) public Proposers;
```



SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 794

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- hiDollar.sol

```
793  for (uint256 i = 0; i < accounts.length; i++) {
794    if (account == accounts[i]) return true;
795    }
796    return false;
797  }
798</pre>
```



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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of 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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