TechRate

AUDIT COMPANY

Smart Contract Security Audit

TechRate

November, 2021

Audit Details

Audited project

INP

Deployer address

0x4192e98c81e1b19c00b56a2f187182cd9cc43872

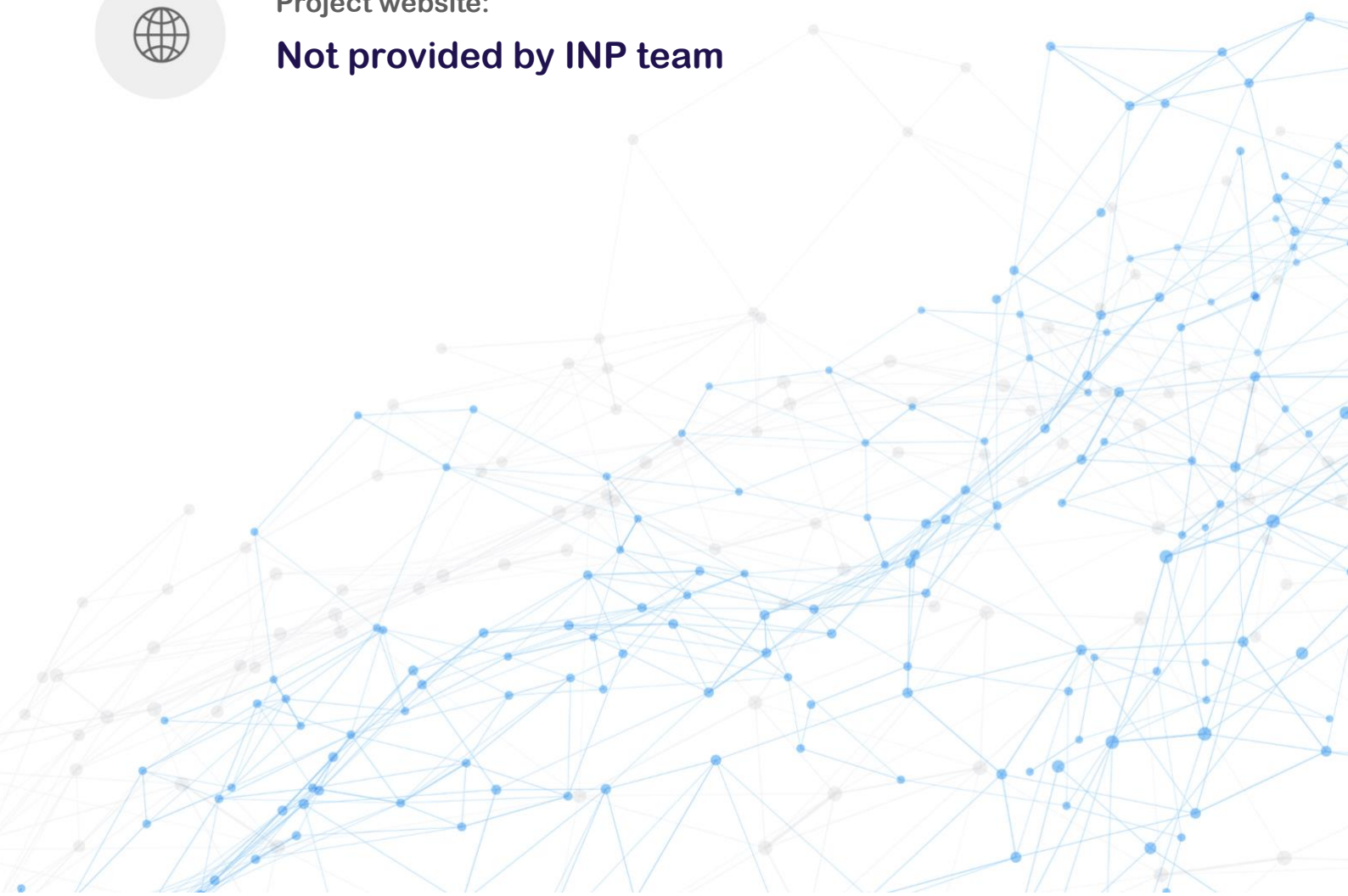**Client contacts:**

INP team

Blockchain

Binance Smart Chain

Project website:

Not provided by INP team

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. 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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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.

Background

TechRate was commissioned by INP to perform an audit of smart contracts:

https://bscscan.com/address/0x470341AdF060d3E41218E2243Db9b3b66174AD43#contracts

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.
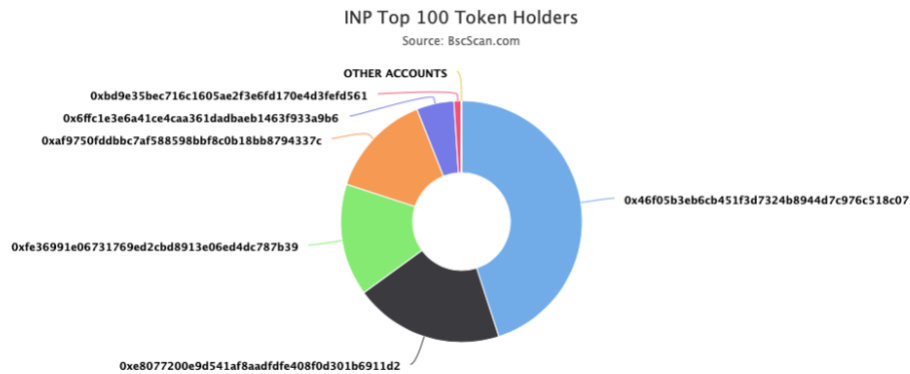
Contracts Details

Token contract details for 22.11.2021

Contract name	**INP**
Contract address	**0x470341AdF060d3E41218E2243Db9b3b66174AD43**
Total supply	**1,000,000,000**
Token ticker	**INP**
Decimals	**18**
Token holders	**6**
Transactions count	**8**
Top 100 holders dominance	**100.00%**
Contract deployer address	**0x4192e98c81e1b19c00b56a2f187182cd9cc43872**
Contract's current owner address	**0x4192e98c81e1b19c00b56a2f187182cd9cc43872**

INP Token Distribution

The top 100 holders collectively own 100.00% (1,000,000,000.00 Tokens) of INP | Token Total Supply: 1,000,000,000.00 Token | Total Token Holders: 6

INP Top 100 Token Holders
Source: BscScan.com

OTHER ACCOUNTS
0xbd9e35bec716c1605ae2f3e6fd170e4d3fefd561
0x6ffc1e3e6a41ce4caa361dadbaeb1463f933a9b6
0xaf9750fddbbc7af588598bbf8c0b18bb8794337c
0xfe36991e06731769ed2cbd8913e06ed4dc787b39
0x46f05b3eb6cb451f3d7324b8944d7c976c518c07
0xe8077200e9d541af8aadfdfe408f0d301b6911d2

(A total of 1,000,000,000.00 tokens held by the top 100 accounts from the total supply of 1,000,000,000.00 token)

INP Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0x46f05b3eb6cb451f3d7324b8944d7c976c518c07	450,000,000	45.0000%
2	0xe8077200e9d541af8aadfdfe408f0d301b6911d2	200,000,000	20.0000%
3	0xfe36991e06731769ed2cbd8913e06ed4dc787b39	150,000,000	15.0000%
4	0xaf9750fddbbc7af588598bbf8c0b18bb8794337c	140,000,000	14.0000%
5	0x6ffc1e3e6a41ce4caa361dadbaeb1463f933a9b6	50,000,000	5.0000%
6	0xbd9e35bec716c1605ae2f3e6fd170e4d3fefd561	10,000,000	1.0000%

Contract functions details

+ Ownable (Context)
  - **[Pub]** <Constructor> **#**
  - **[Pub]** owner
  - **[Pub]** renounceOwnership **#**
    - modifiers: onlyOwner
  - **[Pub]** transferOwnership **#**
    - modifiers: onlyOwner
  - **[Prv]** _setOwner **#**

+ ERC20 (Context, IERC20, IERC20Metadata)
  - **[Pub]** <Constructor> **#**
  - **[Pub]** name
  - **[Pub]** symbol
  - **[Pub]** decimals
  - **[Pub]** totalSupply
  - **[Pub]** balanceOf
  - **[Pub]** transfer **#**
  - **[Pub]** allowance
  - **[Pub]** approve **#**
  - **[Pub]** transferFrom **#**
  - **[Pub]** increaseAllowance **#**
  - **[Pub]** decreaseAllowance **#**
  - [Int] _transfer **#**
  - [Int] _mint **#**
  - [Int] _burn **#**
  - [Int] _approve **#**
  - [Int] _beforeTokenTransfer **#**
  - [Int] _afterTokenTransfer **#**

+ [Int] IERC20
  - **[Ext]** totalSupply
  - **[Ext]** balanceOf
  - **[Ext]** transfer **#**
  - **[Ext]** allowance
  - **[Ext]** approve **#**
  - **[Ext]** transferFrom **#**

+ ERC20Burnable (Context, ERC20)
  - **[Pub]** burn **#**
  - **[Pub]** burnFrom **#**

+ [Int] IERC20Metadata (IERC20)
  - **[Ext]** name
  - **[Ext]** symbol
  - **[Ext]** decimals

+ Context
  - [Int] _msgSender
  - [Int] _msgData

+ [Int] ILiquidityRestrictor

- **[Ext]** assureByAgent **#**
 - **[Ext]** assureLiquidityRestrictions **#**

+ [Int] IAntisnipe
 - **[Ext]** assureCanTransfer **#**

+ Inp (ERC20Burnable, Ownable)
 - **[Pub]** \<Constructor\> **#**
   - modifiers: ERC20
 - **[Int]** _beforeTokenTransfer **#**
 - **[Ext]** setAntisnipeDisable **#**
   - modifiers: onlyOwner
 - **[Ext]** setLiquidityRestrictorDisable **#**
   - modifiers: onlyOwner

($) = payable function
= non-constant function

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
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**

    No high severity issues found.

⊘ **Medium Severity Issues**

    No medium severity issues found.

⊘ **Low Severity Issues**

    No low severity issues found.

Owner privileges (In the period when the owner is not renounced)

- **Owner can disable antisnipe.**
- **Owner can disable liquidity restriction.**

Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope. Contracts has interfaces that is not audited, some contract logic may work unexpected way.

Liquidity locking details NOT provided by the team.

TechRate note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.