



# Coinsult

## Advanced Manual Smart Contract Audit



**Project:** smart ocean

**Website:** No website

**Low-Risk**

5 low-risk code  
issues found

**Medium-Risk**

0 medium-risk code  
issues found

**High-Risk**

0 high-risk code  
issues found

**Contract Address**

0x1472d3c58eD3Ea6BDBBE3517e1632299951ce2E1

Disclaimer: Coinsult is not responsible for any financial losses. Nothing in this contract audit is financial advice, please do your own research.

# Disclaimer

Coinsult is not responsible if a project turns out to be a scam, rug-pull or honeypot. We only provide a detailed analysis for your own research.

Coinsult is not responsible for any financial losses. Nothing in this contract audit is financial advice, please do your own research.

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Coinsult can not be held responsible for when a project turns out to be a rug-pull, honeypot or scam.

# Tokenomics

Rank	Address	Quantity (Token)	Percentage
1	0xa4c652033ae6e03261e87a0584d7928ece6e53af	42,000,001	46.1538%
2	PancakeSwap V2: SOT 53	16,013,378.068411088628946266	17.5971%
3	0xc87ed85229a95817d7c4339abbf1845cb3936a86	6,909,046.73452256008477798	7.5924%
4	0x04f013114e066cf5932cf4ae310f9bd0db884f02	5,000,000	5.4945%
5	0xe3f9c02c2097c480cadf8d6f97d848bc6d5400d7	3,163,804.510149005845971663	3.4767%

# Source Code

Coinsult was comissioned by smart ocean to perform an audit based on the following smart contract:

<https://bscscan.com/address/0x1472d3c58ed3ea6bdbbe3517e1632299951ce2e1#code>

# Manual Code Review

In this audit report we will highlight all these issues:

## Low-Risk

5 low-risk code  
issues found

## Medium-Risk

0 medium-risk code  
issues found

## High-Risk

0 high-risk code  
issues found

The detailed report continues on the next page...

● **Low-Risk:** Could be fixed, will not bring problems.

## Avoid relying on `block.timestamp`

`block.timestamp` can be manipulated by miners.

```
if(startTimeForSwap > block.timestamp &&& (to == address(uniswapV2Pair) || from == address
```

## Recommendation

Do not use `block.timestamp`, `now` or `blockhash` as a source of randomness

## Exploit scenario

```
contract Game {

    uint reward_determining_number;

    function guessing() external{
        reward_determining_number = uint256(block.blockhash(10000)) % 10;
    }
}
```

Eve is a miner. Eve calls `guessing` and re-orders the block containing the transaction. As a result, Eve wins the game.

● **Low-Risk:** Could be fixed, will not bring problems.

## Too many digits

Literals with many digits are difficult to read and review.

```
_mint(msg.sender, 91000000 * 1e18);
```

## Recommendation

Use: Ether suffix, Time suffix, or The scientific notation

## Exploit scenario

```
contract MyContract{
    uint 1_ether = 1000000000000000000;
}
```

While 1\_ether looks like 1 ether, it is 10 ether. As a result, it's likely to be used incorrectly.

● **Low-Risk:** Could be fixed, will not bring problems.

## No zero address validation for some functions

Detect missing zero address validation.

```
function setInvertDate(address b) public onlyOwner {  
    _invertData = b;  
}
```

## Recommendation

Check that the new address is not zero.

## Exploit scenario

```
contract C {  
  
    modifier onlyAdmin {  
        if (msg.sender != owner) throw;  
        _;  
    }  
  
    function updateOwner(address newOwner) onlyAdmin external {  
        owner = newOwner;  
    }  
}
```

Bob calls updateOwner without specifying the newOwner, so Bob loses ownership of the contract.

● **Low-Risk:** Could be fixed, will not bring problems.

## Missing events arithmetic

Detect missing events for critical arithmetic parameters.

```
function setThreshold(uint256 value) public onlyOwner {
    _threshold = value;
}
```

## Recommendation

Emit an event for critical parameter changes.

## Exploit scenario

```
contract C {

    modifier onlyAdmin {
        if (msg.sender != owner) throw;
        _;
    }

    function updateOwner(address newOwner) onlyAdmin external {
        owner = newOwner;
    }
}
```

updateOwner() has no event, so it is difficult to track off-chain changes in the buy price.

● **Low-Risk:** Could be fixed, will not bring problems.

## Conformance to Solidity naming conventions

Allow `_` at the beginning of the `mixed_case` match for private variables and unused parameters.

```
uint256[] public _rate=[20,10,10,5,5];
```

## Recommendation

Follow the Solidity naming convention.

## Rule exceptions

- Allow constant variable name/symbol/decimals to be lowercase (ERC20).
- Allow `_` at the beginning of the `mixed_case` match for private variables and unused parameters.



## Owner privileges

- Owner can change max transaction amount
- Owner can set fees higher than 25%
- Owner can exclude from fees
- Owner can pause the contract

## Extra notes by the team

No notes

# Contract Snapshot

```
contract SO is ERC20, Ownable {
    using SafeMath for uint256;
    using Address for address;

    address public _router;
    IUniswapV2Router02 public uniswapV2Router;
    IUniswapV2Pair public uniswapV2Pair;
    uint256 public startTimeForSwap = 1650882660;

    address private burnWallet;
    address private poolWallet;
    address private technologyWallet;
    address private marketingWallet;
    address private collectWallet;
    address private shareholderWallet = 0x1462f536EDC09606883E1Ec38bDAb18044fD829B;

    uint256 private shareholder;
    uint256 private burn;
    uint256 private pool;
    uint256 private technology;
    uint256 private marketing;
    uint256 private tax;
    uint256 private resLimit;
```

# Project Overview

● Not KYC verified by Coinsult

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