🔍 Audit Report – Shri Ram Mudra (SRM)

Version: 1.0
Date: May 2025
Auditor: Community Self-Audit (Preliminary)
Contract Type: BEP-20 (ERC20-compatible)
Blockchain: Binance Smart Chain (BSC)
Contract Address: *0x6E427D100a9Be7eDd43c0223fc31b0855846Dc4b*

✅ Summary

Category	Status
Ownership Management	✅ Pass
Pausable Mechanism	✅ Pass
Minting Cap Enforcement	✅ Pass
Transfer Tax Logic	✅ Pass
Reentrancy Protection	✅ Pass
Max Supply Enforced	✅ Pass
External Call Risks	✅ Low Risk
Upgradeable Patterns	❌ Not Present
Proxy Risks	❌ Not Applicable
Reflection Logic	❌ Not Present
Auto Liquidity Logic	❌ Not Present

🔐 Key Contract Features

- **Name:** Shri Ram Mudra
- **Symbol:** SRM
- **Decimals:** 18
- **Max Supply:** 1,000,000,000 SRM
- **Initial Supply:** 100,000,000 SRM
- **Transfer Tax:** 5% (configurable only by modifying source code)
- **Burn Function:** ✅ Included
- **Mint Function:** ✅ Restricted to owner, with cap enforced
- **Pause Function:** ✅ Transfer pausing supported
- **Ownership Transfer:** ✅ Supported via Ownable pattern

🔍 Detailed Analysis

1. Ownership Control

- Uses OpenZeppelin's Ownable.
- Ownership can be transferred or renounced.
- ✅ Safe.

2. Minting

- mint() function restricted to the owner.
- ✅ Minting is capped at max supply (1 billion SRM).
- ⚠️ Owner must be trusted to avoid abuse.

3. Burning

- Any holder can call burn() to reduce total supply.
- ✅ No flaws found.

4. Transfer Tax

- 5% tax implemented during transfers.
- ✅ Logic correctly deducts and redirects tax.
- ❌ Currently fixed in code – recommend flexibility (owner-settable).

5. Pause Mechanism

- Uses Pausable from OpenZeppelin.
- ✅ Admin can pause/resume transfers in emergencies.

6. Reentrancy Risk

- No dangerous external calls inside state-changing functions.
- ✅ Low risk of reentrancy.

7. Gas Optimization

- Logic is clean and modular.
- ✅ Minor optimizations possible but not critical.

✅ Final Verdict

The contract is secure and follows BEP-20 best practices.
 No critical vulnerabilities were found. It is **safe for deployment**, assuming the owner behaves responsibly.