



Government of India  
Ministry of Electronics & Information Technology  
Standardisation, Testing & Quality Certification Directorate  
STQC IT- Electronics Regional Test Laboratory (North)  
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भारत सरकार  
इलेक्ट्रॉनिकी और सूचना प्रौद्योगिकी मंत्रालय  
मानकीकरण, परीक्षण एवं गुणवत्ता प्रमाणन निदेशालय  
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एस ब्लॉक, ओखला औद्योगिक क्षेत्र, फेज II, नईदिल्ली-110020.

Ref. No. : STQC IT-ERTL (N)/EVoting/Right2vote/AS/02/2019/Cert-02 Dated: 11.02.2019

### Application Security Test Certificate

|                         |   |
|-------------------------|---|
| Web Site Tested:        | Right2Vote Web application  |
| Test URL:               | <a href="https://right2vote.org/">https://right2vote.org/</a>   |
| Host URL :              | <a href="https://right2vote.in/">https://right2vote.in/</a>   |
| Test /Audit Agency:     | STQC IT Services, ERTL (North) New Delhi  |
| Testing/ Audit Date(s): | I Cycle: 12th December 2018 to 4th January 2019, II Cycle: 28th January 2019 to 1st February 2019, III Cycle : 7th February 2019 to 8th February 2019 |

#### Test/Audit Result Summary:

| OWASP Top 10 (2017) | Web Application Vulnerabilities             | Compliance   | Remark |
|---------------------|---|--------------|--------|
| A1                  | Injection                                   | Satisfactory | Nil    |
| A2                  | Broken Authentication                       | Satisfactory | Nil    |
| A3                  | Sensitive Data Exposure                     | Satisfactory | Nil    |
| A4                  | XML External Entities (XXE)                 | Satisfactory | Nil    |
| A5                  | Broken Access Control                       | Satisfactory | Nil    |
| A6                  | Security Misconfiguration                   | Satisfactory | Nil    |
| A7                  | Cross-Site Scripting (XSS)                  | Satisfactory | Nil    |
| A8                  | Insecure Deserialization                    | Satisfactory | Nil    |
| A9                  | Using Components with Known Vulnerabilities | Satisfactory | Nil    |
| A10                 | Insufficient Logging & Monitoring           | Satisfactory | Nil    |

Note: For details please refer Security Test Report Ref. NO. STQC IT-ERTL (N)/EVoting/Right2vote/AS/TR/02/2019/37, dated 11<sup>th</sup> February, 2019.

#### Recommendations:

- Auditing for Right2Vote web application of Right2Vote was done from 12th December 2018 to 04th January 2019, as per the OWASP Top 10 2017 by STQC IT, ERTL (N). The follow-up testing/ auditing was done from 28th January to 1st February 2019, then from 07th to 08th February (Final Cycle) and there is no pending nonconformity w.r.t OWASP Top 10 2017 as on 11th February 2019.
- This is a PHP based application. It can be hosted with Read permissions only.
- Sensitive data must be suitably protected using TLS ver1.2.
- User access log & transaction log of the Web application should be enabled and stored on a separate secure server.
- Before deploying the Website in the production environment, the hardening of IT infrastructure (Network, Hosts and OS) must be ensured.
- This Certificate is valid for one year from the date of issue or till any change in the code of the application or any new vulnerability is discovered whichever is earlier.**

#### Conclusion:

The Web application is free from OWASP Top 10, 2017 (and any other known) vulnerabilities and is safe for hosting.

Tested by:

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