भारत सरकार
इलेक्ट्रॉनिकी और सूचना प्रौद्योगिकी मंत्रालय
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कोलकाता

Government of India
Ministry of Electronics & Information Technology
STQC Directorate
ELECTRONICS REGIONAL TEST LABORATORY (EAST)
Kolkata

Project No.: ES/MSTC/171802   12th November 2018

Web Application Security Audit

Application Name   : Web Portal of MSTC Ltd.

Customer's Address : MSTC Ltd., 225C, A.J.C. Bose Road, Kolkata – 700 020

Site URL   : https://www.mstcindia.co.in

Temporary URL   : http://202.54.75.39/mstc
                        : http://202.54.75.39/mstc/sign_in.aspx (Cycle-1)
                        : http://220.225.138.39
                        : http://220.225.138.39/sign_in.aspx (Cycle-2 onwards)

Audit Performed by : STQC IT Services, Kolkata

Testing Date   : 4th April 2018 to 18th April 2018 (Cycle-1)
                        : 22nd June 2018 to 3rd July 2018 (Cycle-2)
                        : 23rd August 2018 to 4th October 2018 (Verification of Cycle-2)

Table 2: OWASP Top 10 Vulnerabilities (2013)

Sl. No.	Web Application Vulnerabilities	Observation	Remarks
A1	Injection	Tested OK.	No issues
A2	Broken Authentication and Session Management	Tested OK.	No issues
A3	Cross-site Scripting	Tested OK.	No issues
A4	Insecure Direct Object Reference	Tested OK.	No issues
A5	Security Misconfiguration	Tested OK.	No issues
A6	Sensitive Data Exposure	Tested OK.	No issues
A7	Missing Function Level Access Control	Tested OK.	No issues
A8	Cross-site Request Forgery	Tested OK.	No issues
A9	Using Components with Known Vulnerabilities	Tested OK.	No issues
A10	Unvalidated Redirects and Forwards	Tested OK.	No issues

Recommendation:

1. The web portal may be hosted at https://www.mstcindia.co.in, with privileges of Read and Script Execute permission.
2. Hardening / proper secured configuration of the Web Server and Operating System need to be done in the production environment where the application will be hosted. Vulnerability assessment of the critical servers and perimeter devices should be done at regular intervals.

Conclusion:

The web portal is free from OWASP-Top 10 (2013) vulnerabilities, and is safe for hosting.

12/11/2018   12/11/2018

Audited By: **Arpita Datta**   Approved By: **Subhendu Das**
Scientist 'E'   Scientist 'F' and Head, e-Security

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