



## Security Certificate

(Unique Ref No: CSW-SC-04-042018)

**Audit Performed by:** Cyber Security Works Pvt. Ltd.

**Application Description/Name:** National Institute of Agricultural Extension Management Web Application.

**Staging URL on which the audit has been performed:** <http://14.139.87.206/>

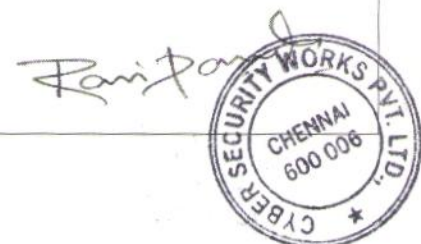
**Production URL of the web application:** <http://www.manage.gov.in/>

**Audit Performed by:**

a) Name : Maheswari  
b) Email : dmaheswari@cybersecurityworks.com  
c) Telephone : +91-44-42089337  
Level -01 assessment date : 01-11-2017 – 17-11-2017  
Level -02 assessment date : 19-03-2018 – 22-03-2018  
Level -03 & Final assessment date : 19-04-2018 – 20-04-2018  
Issue Date : 25-04-2018  
Unique Reference No. : CSW- SC- 04 -042018

National Institute of Agricultural Extension Management Web Application auditing is completed on a staging server with URL <http://14.139.87.206/> from CSW Office During the initial assessment of the web application following vulnerabilities were discovered and all vulnerabilities are fixed except two issues (\* marked). These two vulnerabilities should be fixed on the production server before going to live:

1. SQL Injection
2. Broken Authentication & Session Management
3. Cross-Site Scripting
4. Sensitive Data Exposure
5. Missing Function Level Access Control
6. Security Misconfiguration
7. Missing Input Validation
8. Improper Error Handling
9. External Service interaction
10. Vulnerable Query version found
11. Automation Attacks\*
12. Banner Disclosure\*
13. Password Type Field Autocomplete Enabled
14. Http Verbs Enabled on the server
15. Physical path disclosure





**CONCLUSION:**

Auditing for National Institute of Agricultural Extension Management Web Application was done from November 01, 2017 to November 17, 2017 on the staging server <http://14.139.87.206/> by Cyber Security Works Pvt. Ltd. The follow up audit were done on March 19, 2018 - March 22, 2018, April 19, 2018 - April 20, 2018 and there is no pending nonconformity w.r.t OWASP Top 10, 2017 as on April 20, 2018 except two (\*) issues as mentioned above.

National Institute of Agricultural Extension Management Web Application (at <http://14.139.87.206/>) meets all the aspects of Open Web Application Security Project (OWASP) and is safe for hosting provided the recommendations are implemented. National Institute of Agricultural Extension Management Web Application in a secure operating environment will create an overall system that is resilient to known patterns of attack.

It is therefore our opinion that a typical user would require a sophisticated level of security attack skill to breach such a system. In this capacity, we are pleased to provide a positive rating on the security posture of National Institute of Agricultural Extension Management Web Application.

The web application is free from all vulnerabilities and can be hosted only after the below provided recommendations are implemented. The server side issues which are pending should be fixed on the production server before going live.

**Recommendation:**

- a. The entire application should be hosted with read permissions only.
- b. Banner Disclosure (Server) and Automation Attack vulnerabilities should be fixed on the production server before going live.
- c. The folders **STRY&FCAC, INTERNSHIP, TRGMODULE, FINANCE, MOOCSAEM** and their sub folders in the application in which file is uploaded through web application should have only read and write permission. No execute permission should be given.
- d. The database user mentioned in the connection string should be with low level privilege and it should be in encrypted format.
- e. SSL should be enabled on production server, HttpOnly and secure flags should be enabled on all session ids and cookies.
- f. Web server/framework and OS level hardening must be completed on the production servers.
- g. This certificate is valid till no modification in National Institute of Agricultural Extension Management Web Application is done or one year from the date of issue whichever is earlier.

Ravi Pandey  
(Lead- Technical)

For Cyber Security Works Pvt. Ltd.



Date : 25-04-2018

Place : Chennai