



## **INTERNATIONAL INSTITUTE FOR DEMOCRACY AND ELECTORAL ASSISTANCE**

### **ANNEX B**

**TO THE CONTRACT NO. \_\_\_\_\_**

#### **TERMS OF REFERENCE**

##### 1. Background

The International Institute for Democracy and Electoral Assistance (International IDEA) is an intergovernmental organization established in 1995, which aims to support sustainable democracy worldwide.

International IDEA has built a cloud-based architecture leveraging the AWS 'Well-Architected framework' consisting of multiple services for several of its websites. Applications are built using EC2 and ECS processes and the code is stored in a GitHub code repository.

International IDEA is seeking a qualified contractor to provide technical support, maintenance services and proactive monitoring for the environment to ensure the availability, stability, and security of the hosting environment.

##### 2. Scope of Work

The contractor will perform the following tasks as part of the support, maintenance, and monitoring of environment contract:

###### a) Environment Management:

- Provisioning, configuration, and optimization of EC2 instances and ECS services as per requirements.
- Deployment of applications using ECS and Docker containers.
- Collaboration with website developers to implement deployment best practices.
- Monitoring and troubleshooting of the hosted environment to identify and resolve any performance or availability issues.
- Scaling resources based on workload demands to ensure optimal performance.

###### b) Security Management:

- Implementing and maintaining robust security measures, including access controls, network security, and encryption mechanisms.
- Regularly updating and patching system software and environment to address any security vulnerabilities.
- Conducting periodic security audits and vulnerability assessments to identify and mitigate potential risks.

- c) Backup and Disaster Recovery:
  - Designing and implementing backup strategies to ensure the integrity and availability of data.
  - Regularly testing backup and disaster recovery processes to validate their effectiveness.
  - Developing and maintaining a disaster recovery plan to minimize downtime in the event of a system failure.
- d) Code Repository Management:
  - Setting up and managing the GitHub code repository, including branch management, code versioning, and code review processes.
  - Implementing continuous integration and deployment (CI/CD) pipelines to automate code deployment and testing processes.
  - Ensuring proper code documentation and adherence to coding standards.
  - Provide support for code deployment and integration processes.
- e) Performance Optimization:
  - Conducting regular performance analysis and optimization of the hosted environment, including resource utilization, network latency, and response times.
  - Implementing caching mechanisms, load balancing, and other performance-enhancing techniques to improve application responsiveness.
- f) Incident and Problem Management:
  - Establish and maintain a ticketing system for incident and problem management.
  - Respond to and resolve incidents within defined Service Level Agreements (SLAs).
  - Investigate and troubleshoot reported problems and perform root cause analysis.
  - Implement preventive measures to minimize the occurrence of incidents and problems.
- g) Change and Release Management:
  - Establish and follow a structured change management process.
  - Coordinate and implement authorized changes to the environment and code repository.
  - Plan and execute regular maintenance activities, including patches and upgrades.
  - Ensure proper documentation and communication of all changes and releases.
- h) Support & Maintenance

Successful contractor will manage AWS environment proactively and reactively according to severity of incidents and service level agreement as outlined.

Tier 1	Tier 2
Response within 1 hour during working hours Response within 4 hours outside of working hours	Response within one working day
Security issues involving personal data	Styling issues
Unavailability of environment, websites, or application	Content issues
App loading in over 10 seconds	App loading in over 5 seconds

#### Tier 1

Response within 1 hour during working hours  
Response within 4 hours outside of working hours

#### Tier 2

Response within one working day

Failure of critical functionality

Failure of non-critical functionality

Identification of unauthorised intrusion to the app

Malicious defacement of product

Any Tier 2 issues that International IDEA escalate to Tier 1 that is having a significant impact on customers

### 3. Deliverables and Reporting Requirements

The contractor is responsible for delivering the following:

- Provisioned and configured AWS EC2/ECS instances for the hosted environment.
- Well-documented system configurations, installation procedures, and troubleshooting guidelines.
- Regular backups and tested disaster recovery plan documentation.
- Security measures implemented and documented, including access controls, firewall configurations, and encryption mechanisms.
- GitHub code repository managed with proper version control, branching, and deployment processes.
- Monthly reports summarizing the performance and status of the hosted environment, including any incidents, changes, or optimizations made.
- Timely and effective support in resolving incidents and service requests.

### 4. Monitoring and Evaluation

Key Performance Indicators (KPIs):

The performance of the contractor will be evaluated based on the following KPIs:

- Availability of the hosted environment (e.g., uptime percentage).
- Response time and resolution time for incidents and problems.
- Adherence to SLAs for incident and problem management.
- Successful execution of authorized changes and releases.
- Compliance with security and access control requirements.