



Sri Lanka CERT (Pvt.) Ltd.

Procurement of an Individual Consultant to Develop a Framework to Identify Critical Information Infrastructure

(CERT/GOSL/CONS/IC/2024/24/R)

Identifying critical information infrastructure (CII) is a fundamental aspect of cyber security and resilience planning. In today's interconnected world, where cyber and physical systems are deeply integrated, protecting these infrastructures is vital to maintaining the stability and well-being of a nation. Critical Information Infrastructure (CII) is essential for national security, economic stability, public health and safety, and social well-being. Economic stability relies on the integrity of financial systems, including banks and stock exchanges, as well as logistics, supply chains, and e-commerce platforms that drive growth. Public health and safety are supported by healthcare information systems, medical devices, and communication networks for emergency services, ensuring patient care and effective crisis response. Social well-being is sustained through utilities like water, electricity, and gas, alongside transportation systems crucial for mobility and logistics. Key components of CII span various sectors, including energy (power generation, oil and gas), finance (banking and financial markets), telecommunications (internet and communication networks), healthcare (hospital systems and medical devices), transportation (aviation and rail networks), water supply (treatment facilities and distribution), government services (public administration and law enforcement), and defense and security.

Over the past several years, Sri Lanka has made efforts to identify the critical information infrastructure. A high-level framework has been developed to determine the critical infrastructure and critical information infrastructure. Further, Sri Lanka is currently in the process of drafting relevant legislation to regulate the critical information infrastructure, and therefore, the need for a solid framework is essential to determine more accurate parameters to designate critical information infrastructure and justify reasons for designating the CII which even could be challenged in legal formats.

Sri Lanka CERT, therefore, aims to obtain the service of qualified and experienced individual consultants to develop a Critical Information Infrastructure Identification framework that can be used to identify critical information infrastructure at the national level. The duration of the assignment is 12 weeks.

Eligible Individual Consultants may submit their responses (CV, proposal and other proof documents) as specified in the Terms of Reference. International Consultants shall also be eligible to bid. The response should be submitted electronically to procurement@cert.gov.lk or by hand delivery or post to the Chief Executive Officer (Actg.), Sri Lanka CERT (Pvt.) Ltd, Room: 4-112, BMICH, Colombo 7, to be received on or before 1500 Hrs on 30th October 2024. The envelope containing the response should be marked "Procurement of an Individual Consultant to Develop a Framework to Identify Critical Information Infrastructure. The detailed "Terms of Reference (TOR)" are available on the "procurement" tab of the <https://www.cert.gov.lk/> website.

Chief Executive Officer (Actg.)

Sri Lanka CERT (Pvt) Ltd

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Terms of Reference

A Framework to Identify Critical Information Infrastructure

1. Introduction

- 1.1. Identifying critical information infrastructure (CII) is a fundamental aspect of cyber security and resilience planning. In today's interconnected world, where cyber and physical systems are deeply integrated, protecting these infrastructures is vital to maintaining the stability and well-being of a nation. Critical Information Infrastructure (CII) is essential for national security, economic stability, public health and safety, and social well-being. Economic stability relies on the integrity of financial systems, including banks and stock exchanges, as well as logistics, supply chains, and e-commerce platforms that drive growth. Public health and safety are supported by healthcare information systems, medical devices, and communication networks for emergency services, ensuring patient care and effective crisis response. Social well-being is sustained through utilities like water, electricity, and gas, alongside transportation systems crucial for mobility and logistics. Key components of CII span various sectors, including energy (power generation, oil and gas), finance (banking and financial markets), telecommunications (internet and communication networks), healthcare (hospital systems and medical devices), transportation (aviation and rail networks), water supply (treatment facilities and distribution), government services (public administration and law enforcement), and defense and security.
- 1.2. Over the past several years, Sri Lanka has made efforts to identify the critical information infrastructure. A high-level framework has been developed to determine the critical infrastructure and critical information infrastructure. Further, Sri Lanka is currently in the process of drafting relevant legislation to regulate the critical information infrastructure, and therefore, the need for a solid framework is essential to determine more accurate parameters to designate critical information infrastructure and justify reasons for designating the CII's which even could be challenged in legal formats.
- 1.3. Sri Lanka CERT, therefore, aims to obtain the service of qualified and experienced individual consultants to develop a Critical Information Infrastructure Identification framework that can be used to identify critical information infrastructure at the national level.

2. Objective of the Assignment

- a. Develop a comprehensive framework to identify critical sectors and critical infrastructure within the country.
- b. Develop a framework to designate the critical information infrastructure.
- c. Test and validate the frameworks with the use of data to prove the validity of the framework.

3. Scope of the Work

- a. Review the existing framework adopted in Sri Lanka to designate the critical infrastructure, and the critical information infrastructure.
- b. Review the practices adopted in other countries to designate the critical infrastructure and critical information infrastructure.
- c. Review the critical sectors in Sri Lanka with the use of existing data and interviews with relevant sector representatives, and propose a list of critical sectors.
- d. In consultation with Sri Lanka CERT, develop a comprehensive approach to determine critical infrastructure within the sectors.
- e. In consultation with Sri Lanka CERT, develop a comprehensive methodology to determine the critical information infrastructure including critical assets at the national level.
- f. Develop a criticality scale to determine the critical level of critical information infrastructure.
- g. Develop a data collection framework and other tools necessary to determine the critical information infrastructure.
- h. Test and validate critical information infrastructure identification framework using sample data collected in Sri Lanka.

4. Deliverables, Payments and Time Schedule

Duration: 12 weeks

Activity	Deliverable	Time schedule	Payment
Development of Project Plan	Project Plan	Contract award date + 1 week	-
Design of an approach to the assignment	Approach	Contract award date + 2 week	Upon the acceptance of the approach 5% of the contract price
Review of the existing approaches, and gaps in the current approach	Gap assessments, and report on a suitable approach	Contract award date + 4 week	Up on the acceptance of the deliverable, 5% of the contract price will be paid
Design the methodology to identify critical sectors and critical infrastructure, and validate the framework	Critical sectors, and critical infrastructure identification framework (validated framework)	Contract award date + 7 weeks	Up on the acceptance of the deliverable, 30% of the contract price will be paid
Design the methodology to identify critical information infrastructure and validate the framework	Critical Infrastructure Identification Framework (validated framework)	Contract award date + 9 weeks	Up on the acceptance of the deliverable, 30% of the contract price will be paid
Development of criticality scale	Criticality scale	Contract award date + 9 weeks	-
Finalize frameworks	Finalized frameworks	Contract award date + 12 weeks	Up on the acceptance of the deliverable, 30% of the contract price will be paid

5. Qualification and Experience of the Consultant

Qualifications	<ul style="list-style-type: none">○ B.Sc degree in IT or related○ Masters Degree in Cyber Security or Information Security or IT or related
Experience	<ul style="list-style-type: none">○ Minimum 10 years of Experience in the Information Security Sector○ Demonstrated experience in identification and designating critical information infrastructure, critical infrastructure, and critical sectors○ Demonstrated experience in working with multiple countries○ Experience with working in critical sectors,

6. Selection Criteria of Consultant

Evaluation Criteria	Marks
Experience as a consultant	10
Consultant's experience of a similar nature assignments	30
Consultant's qualification	10
Proposal for the assignment	50
Total	100

The consultant shall score more than 80 marks to qualify for the assignment.

7. Proposal Submission

Interested consultants are requested to submit the following documents:

- A cover letter expressing his/her interest in the assignment.
- Detailed curriculum vitae (CV) highlighting relevant experience and qualifications as mentioned in section 5. Fill Annex 1.
- Proposal covering the scope of service as specified in the Terms of Reference.

- Financial proposal (including the consultant's daily rate and total consultancy fee) for the deliverables presented in section 5.

○

1. Annex

CURRICULUM VITAE (CV) FORMAT

{Notes shown in brackets { } in italic should not appear on the final document to be submitted}

Position /Title	
Name of Consultant:	<i>{Insert full name}</i>
Date of Birth:	<i>{day/month/year}</i>
Country of Citizenship/Residence	

Education: *{List college/university or other specialized education, giving names of educational institutions, dates attended, degree(s)/diploma(s) obtained}*

Certifications: *{List professional institutes, giving names of certification name, dates acquired}*

Employment record relevant to the assignment: *{Starting with present position, list in reverse order. Please provide dates, name of employing organization, titles of positions held, contract amount, types of activities performed and location of the assignment, and contact information of previous clients and employing organization(s) who can be contacted for references. Past employment that is not relevant to the assignment does not need to be included.}*

Period	Employing organization and your title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
<i>{e.g., May 2012-present}</i>	<i>{e.g., Ministry of, Advisor/Consultant to...}</i>		

	<i>For references: Tel...../e-mail.....; Mr....., Director General}</i>		
<i>{e.g., From Jan 2010 to present}</i>			

Memberships in Professional Associations and Publications:

1. _____
2. _____
3. _____

Language Skills:

Language	Excellent	Good	Basic	None
Sinhala				
English				
Tamil				

Note: Please tick in relevant box

Adequacy for the Assignment

Detailed Tasks Assigned on Consultant:	Reference to Prior Work/Assignments that Best Illustrate Capability to Handle the Assigned Tasks
Experience as a consultant	
Experience as a consultant in assignments of similar nature - Section 4 of the Terms of Reference	

Proposal

The consultant shall submit a proposal for the assignment covering the areas of the Terms of Reference. Price of the

Consultant's contact information: (e-mail, phone.....)

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience, and I am available to undertake the assignment in case of an award. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the Client, and/or sanctions by the Bank.

Name of Consultant

Signature

Date:

{day/month/year}

Proposal – Technical

The consultant shall develop a detailed technical proposal on covering all aspects of the Terms of Reference

Proposal – Financial

The total fee of the consultant including daily rate, and additional costs (if any)

Price shall be quoted in LKR or foreign currency. For the evaluation purposes, exchange rate on the date of closing the bid (Sri Lanka date and time) shall be considered for the conversion of foreign currencies.

