Information and Communication Technology Agency (ICTA) of Sri Lanka

FREE OF COST (FOC) PROPOSAL REQUEST DOCUMENT

For

Product Partnership to fulfill one of the key Components of the Sri Lanka Government Digital Government Blueprint–National Data Exchange (NDX)

References: ICTA/FOC/2022/01

On

FREE OF COST (FOC) SOLUTIONS OR PRODUCTS

October 2022

Information and Communication Technology Agency (ICTA) of Sri Lanka

INVITATION FOR EXPRESSION OF INTEREST (EOI) and SUBMISSION OF PROPOSALS

FREE OF COST (FOC) SOLUTIONS OR PRODUCTS

Title: **Product Partnership to fulfill one of the key components of the Sri Lanka Government Digital Government Blueprint–National Data Exchange (NDX)**

References: ICTA/FOC/2022/01

1. Information and Communication Technology Agency (ICTA) of Sri Lanka invites Expressions of Interest and proposals to provide Services or Products on Free of Cost (FOC) basis to implement the National Data Exchange (NDX) core infrastructure which is a key component of the Sri Lanka Government Digital Government Blueprint.

2. To be eligible for engagement, the interested parties, should not have been blacklisted, shall have Business Registration in Sri Lanka.

3. Interested parties may obtain further information from Information and Communication Technology Agency (ICTA) of Sri Lanka, No 490, R. A. De Mel Mawatha, Colombo 03; Telephone 0112369099, Electronic mail address: cto@icta.lk of Chief Technology Officer and inspect the guidelines and requirements in detail available on the ICTA Web site (https://www.icta.lk/procurement).

4. Expression of Interest and proposals shall be delivered to the address at, Chairman, Information and Communication Technology Agency (ICTA) of Sri Lanka, No 490, R. A. De Mel Mawatha, Colombo 03 on or before **28th October 2022, 15.00 Hrs**.

5. Pre EOI/proposal Meeting will be held on **19th October 2022** at **11:00 hrs** via below zoom link:
    https://us02web.zoom.us/j/89492078970?pwd=czQ4aWR4YXlBNlE5NTlhb2JpQmZ5Zz09

Chairman,
Information and Communication Technology Agency (ICTA) of Sri Lanka

11th October 2022

EOI and Proposal Submission Form

To: Chairman,
Information and Communication Technology Agency of Sri Lanka,
No 490, R A De Mel Mawatha,
Colombo 03.

Title of the EOI/Proposal: **Product Partnership to fulfill one of the key components Of the Sri Lanka Government Digital Government Blueprint – National Data Exchange (NDX)**

References Number: ICTA/FOC/2021/01

We, the undersigned, declare that:

We have read the invitation, and the Proposal Request Document for this assignment;
We are not black listed by any authorities and a registered Business in Sri Lanka.

We are understood that this invitation is issued solely for FOC purposes and, It does not constitute a promise to provide any preferences in competitive procurement processes that will be taken place in the future. This EOI does not commit the ICTA to pay any cost incurred in the preparation or submission of response to the EOI.

We are understood that ICTA is totally free from any financial commitment raised in any circumstances due to the FOC support provided.

We offer to supply in conformity with the requirement provided in the proposal request document.

Our proposal shall be valid for the period of ………… months, till …………
We understand that you are not bound to accept the proposal or any other offer that you may receive.

Signed: *[insert signature of person whose name and capacity are shown]*
In the capacity of *[insert legal capacity of person signing the EOI/proposal submission Form]*

Name: *[insert complete name of person signing the EOI/proposal Submission Form]*

Duly authorized to sign the EOI/proposal submission form for and on behalf of: *[insert complete name of firm]*

Dated on _____ day of _____, _____ *[insert date of signing]*

The Technical Requirement of National Data Exchange (NDX)

The National Data Exchange (NDX) has been identified as a foundational component of the Digital Government Technology Blueprint adopted by ICTA as part of the Digital Government Roadmap and the Sri Lanka Government Enterprise Architecture Blueprint [1].

The Digital Government Roadmap (See Figure 01) consists of multiple key core technical and infrastructural components, which allows all government entities to share data seamlessly. The NDX works as an integral core component to achieve this task.
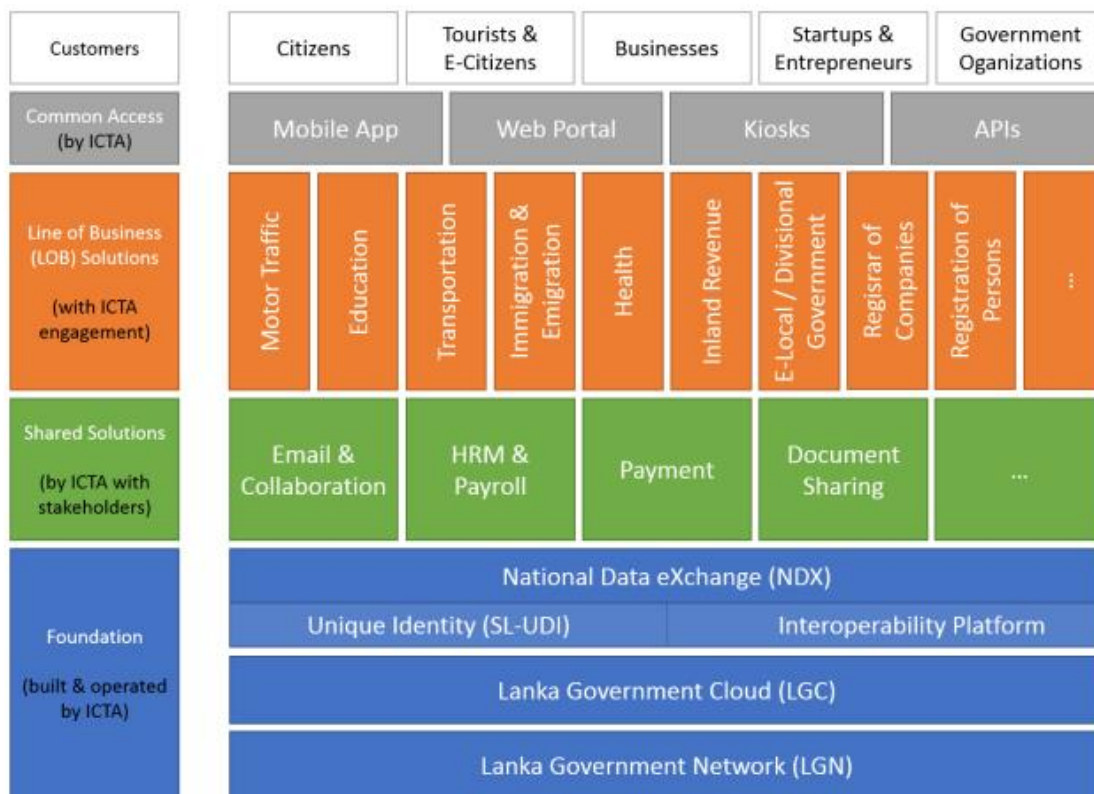

Figure 01 - Sri Lanka government technology blueprint

The high-level business requirement of the NDX platform has been identified as follows,

- Ensuring a secure and reliable data exchange across all government and business entities.
- Ensuring the data exchange across government and related entities is reliable and scales based on request and data volumes.
- Adhere to the privacy and data protection provisions set forth by the legal framework when data is exchanged between entities through the data exchange.
- Incorporate the evaluation of consent and associated policies that are in place and are adhered to when entities engage in data exchange through NDX.

- Common schema-driven public data portals unified across multiple data sources coming from different data custodians. Facilitate data sharing across multiple sources to provide unified views of public data.
- Facilitate LOB applications that require data exchange across multiple governments and business entities
  - Examples: Vehicle registration (Customs, IRD, etc. involved)
- Help facilitate efficient and effective single window experience for citizens consuming business processes that involve several approvals and information collections across multiple governments and business agencies.
- Facilitate data collection and integration for entities that depend on multiple sources of data in their operation
  - Examples: Police investigations, immigration
- Enable an entity to broadcast data as and when available to all parties interested in the data
  - Example: Statics, reports, announcements
- Enable efficient data exchange in emergency, disaster, catastrophe, or national urgency situations across all involved and interested parties
- Facilitate better integration, interoperability, and collaboration among government and business entities anhereing to interoperability standards setup by Lanka Interoperability Framework (LIFe)
- Increase efficiencies by eliminating the need to re-collect data and information for projects by facilitating information exchange to share data and metadata
- To govern all government Application Program Interfaces (APIs), which are being exposed by multiple government entities in a much controlled and scalable manner. This will facilitate downstream and upstream application development through the facilitation of data exchange across entities. This will enable the establishment of new marketplaces and business models based on accurate and up-to-date access to data.

To meet the above requirements, the following technical components/products or Architectural Building Blocks are expected to be used within NDX,
- Enterprise Service Bus
- API Manager
- Identity Server

The technical features of the NDX expected are as follows,
- API integration, management, and governance
- API security
- User management
- Access control
- Service mediation
- Message routing
- Data transformation

- Data transportation
- Service hosting
- API revisions
- Supporting third-party key managers
- Supporting streaming APIs
- Dashboards and analytics
- UI-based integration IDE
- Single sign-on (SSO)
- Identity federation
- Multi-factor and adaptive authentication
- multiple authentication mechanisms
- Privacy and consent management
- High-availability
- Auditability
- Population-scale performance

The general requirements of the project will be as follows:

- Minimum three deployments using the above-mentioned products and their client references should be provided.
- Ten (10) years' licenses for products to be provided FOC.
- Engineering resources for the deployment, operationalization, and maintenance should be provided.
- Knowledge transfer is to be provided to the internal technology team when required.
- General software engineering best practices to be followed during the contract and adherence to the Sri Lankan Law.
- Open-source products will be preferable.

References:

Sri Lanka Government Enterprise Architecture Blueprint - https://www.icta.lk/icta-assets/uploads/2022/04/Sri-Lanka-Government-Enterprise-Architecture_V1.0.pdf

'FOC' EOI and Proposal General Terms and Evaluation Methodology:

General Terms:

i. Please deliver, Expression of Interest and proposal to the Chairman, Information and Communication Technology Agency (ICTA) of Sri Lanka, No 490, R. A. De Mel Mawatha, Colombo 03 on or before **28th October 2022, 15.00 Hrs along with following documents:**

    a) The proposal shall be submitted in one envelope with the reference indicated on the top left corner of the envelop, "FREE OF COST (FOC) SOLUTIONS OR PRODUCTS' - ICTA/FOC/2022/01"

    b) Attach the Duly authorized EOI and Proposal Submission Form

    c) The 'FOC' basis complete proposal of the 'National Data Exchange (NDX) – The Requirement'

    d) A self-prepared letter of motivation

ii. ICTA may obtain further clarifications/request for demonstration of the solution on the submitted proposal during the proposal evaluation stage.

iii. Upon completion of the EOI proposal evaluation. A MoU will be signed between the successful party and the ICTA.

iv. Include the Solution implementation time schedule along with the proposal.

v. The ICTA reserves the right to accept or reject any proposal, and to annul the EOI proposal process and reject all proposals at any time.

Evaluation Methodology:

i. ICTA shall determine to its satisfaction whether the submitted proposal meets the compliances to the general requirements of the technical requirements of the NDX document and the technical requirements of the assignment during the evaluation of the proposal.

ii. ICTA will communicate the party whose proposal has been determined to be the responsive to the technical requirements of the assignment, provided that the such party is determined to be eligible and capable to perform as per the 'MoU' that supposed to be agreed and signed at the final stage of the process.