



PRIVATE AND CONFIDENTIAL

Our Ref. : SDEC/PD/RFP/21-16

Date : 18 August 2021

Dear Sir/Madam,

REQUEST FOR PROPOSAL (RFP) DEVELOPMENT FOR THE SMART WATER METER IOT DASHBOARD

Sarawak Digital Economy Corporation (SDEC) Berhad is a company wholly owned by the Sarawak Government have been entrusted to lead the implementation of Sarawak's Digital Economy initiatives.

Therefore, we would like to invite your esteemed organization to participate in '**Request for Proposal (RFP) for Development for the Smart Water Meter IoT Dashboard**'. The terms and conditions are as follows:

Objective	To provide a proposed solution for the development of Smart Water Meter IoT Dashboard for Sarawak Digital Economy Corporation Berhad
Project Brief	The Smart Water Meter IoT Dashboard aims towards the analytics and monitoring dashboard for water meters using the IoT technology, which consists of automation, sensors and IoT.
Deliverables	Proposed solution and Cost Estimation based on the items stated in the Terms of Reference Attached.
Scope of Work	<ol style="list-style-type: none">Propose a solution based on the Terms of Reference which includes the development design and user interfaces, and solution(s) details and specifications.Propose the cost of:<ol style="list-style-type: none">Proposed solution(s),Development of solution(s),Maintenance on yearly basis,and other costs related to the proposed solutions.

Financial Obligation & Commercialisation	<p>This RFP is to establish working partnership with suitable solution providers for the commercialisation of Smart Water Meter IoT solutions.</p> <p>No financial obligation shall be raised by any parties in the development of the said solutions.</p> <p>All parties will join the effort to commercialise the solution and upon Commercialisation of this solutions, only then all parties will be paid according to the commercial arrangement mutually agreed.</p>
Submission of RFP	<p>10 September 2021 (Friday), by 12.00 noon</p> <p>Submission email to procurement@sdec.com.my</p> <p>*All proposals are to be marked as [RFP] Development for the Smart Water Meter IoT Dashboard on the email subject.</p>

The Vendor whose proposal is accepted shall be required to enter into a formal contract with SDEC for the execution of the Work. SDEC reserves the right to accept any proposal as a whole or in part and SDEC may, at its option, reject any Proposal or accept any Proposal, which in SDEC's sole judgement, is the most advantageous to SDEC. SDEC will be no obligation to explain the reasons thereof.

We look forward to receiving positive participation from your organisation. Should you wish to participate in the above execution of work, kindly indicate your interest by replying to the Participation Reply Form attached together with the company profile to us at **procurement@sdec.com.my by 27 August 2021 (Friday), by 12.00 noon**.

Thank you and warmest regards.

Yours sincerely
for **SARAWAK DIGITAL ECONOMY CORPORATION BERHAD**


SUDARNOTO OSMAN
 Chief Executive Officer

Encls.



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REFERENCE NO.: SDEC/PD/RFP/21-16

To:	Procurement Secretariat Sarawak Digital Economy Corporation (SDEC) Berhad
Title of Project:	REQUEST FOR PROPOSAL (RFP) DEVELOPMENT FOR THE SMART WATER METER IOT DASHBOARD
Acknowledgement:	The undersigned hereby acknowledge receipt of the above letter (a copy of which has been retained) and having understood the content therein, do hereby agree to the above terms and conditions.
Authorised Signatory:	
Name:	
Designation:	
Date:	
Official Stamp:	

Note: Kindly indicate your interest by replying to the Participation Reply Form attached together with the company profile to us at **procurement@sdec.com.my by 27 August 2021 (Friday), by 12.00 noon.**

SARAWAK DIGITAL ECONOMY CORPORATION BHD (1265203-A)

(A wholly owned subsidiary of the State Government of Sarawak)

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TERM OF REFERENCE FOR SMART WATER METER IOT DASHBOARD

1.0 OBJECTIVES

To provide a proposed solution for the **Smart Water Meter IoT Dashboard** project for Sarawak Digital Economy Corporation Berhad, **that aim towards the analytics and monitoring dashboard of the water meter sensors.**

To propose a solution for the Smart Water Meter IoT Dashboard. This document will include the following:

- a) Technical Requirements
- b) Scope of Work
- c) Project Timeline
- d) RFP Submission Closing Date

2.0 TECHNICAL REQUIREMENTS

1. There also one of the important components in this project which is, **Data Visualisation & Analysis for Smart Water Meter IoT Dashboard.**

a. Details:

Development of Data Visualisation Dashboard that able to perform Data Analysis and integration with any IoT technology sensors and different connectivity (eg. SigFox, LoRa, Arduino, Raspberry, Internet).

b. Equipment Requirement:

- i. For IoT technology Integration and callbacks from others IoT sensors
- ii. Data Collection & Analysis & Integration with Smart Water Meter IoT sensors.

c. Specification Requirement:

- i. Consolidation & Unify dashboard for other IoT devices as well (unlimited/limited numbers of IoT devices/technology)
- ii. Support narrowband technology (SigFox & LoRa)
- iii. Support provision of entities to connected APIs and all IoT protocol (MQTT, DDS, AMQP)
- iv. Customizable interface (graph, visualization)
- v. Hosted in local server (SDEC Data Centre)
- vi. Easily manage (User friendly & simple execution)
- vii. Capable to perform database migration for any platform & format, such as cross-data transfer (locally – eg. Excel, server/cloud – eg. TXT)
- viii. Capable to setup new dashboard for specific area using existing features from unified IOT Dashboard, such as via activation by module.
- ix. Training program for dashboard administrator backend (SDEC staff)
- x. Provide life-time support service for dashboard issue & maintenance.
- xi. Simple architecture workflow to be manage (trigger, logic, data & output)

d. Dashboard Features Requirement:

- i Data collection & analysis of the following:
 - Real-time Smart Water Meter Reading
 - Real-time Smart Water Meter Status & Location
 - Graph Visualization and Analysis Water Meter Usage
 - Dashboarding for all relevant data

2. Below is the Technical Requirement overview for the project:

a. Data Visualisation & Analysis

Details	Requirement	Equipment
Development of Data Visualisation Dashboard that able to perform Data Analysis, and integration with any IoT technology sensors and connectivity (eg. SigFox, LoRa, Arduino, Raspberry)	<ul style="list-style-type: none">• Data collection & analysis of the following:<ul style="list-style-type: none">◦ Real-time Smart Water Meter Reading◦ Real-time Smart Water Meter Status & Location◦ Graph Visualization and Analysis Water Meter Usage◦ Dashboarding for all relevant data	IoT Integration and callbacks from others IoT sensors

3.0 SCOPE OF WORK

The scope of works includes:

1. Prepare Design and Concept of the Smart Water Meter IoT Dashboard Visualisation & Analysis.
2. Propose the following for the development:
 - a. Development Designs & User Interfaces
 - b. Solution(s) details & specification
3. Propose the cost for the following:
 - a. Proposed solution(s)
 - b. Development of solution(s)
 - c. Maintenance on a yearly basis,
 - d. and other costs related to the proposed solution(s).
4. Deployment, operationalisation, and integration (if any) of the proposed solution(s).
5. Support any issues or maintenance required for the proposed solution(s).

4.0 PROJECT TIMELINE

The project should be completed within three (3) months, after project being awarded.

5.0 RFP SUBMISSION CLOSING DATE

The closing date for RFP submission is on **10 September 2021 (Friday), by 12.00 noon**