



MALAYSIAN COMMUNICATIONS AND MULTIMEDIA COMMISSION

**INVITATION TO REGISTER INTEREST AND
SUBMIT A DRAFT UNIVERSAL SERVICE PLAN**

AS A

**UNIVERSAL SERVICE PROVIDER UNDER THE COMMUNICATIONS AND MULTIMEDIA
(UNIVERSAL SERVICE PROVISION) REGULATIONS 2002**

FOR

**THE DESIGN, SUPPLY, INSTALLATION, AND COMMISSIONING OF COMMUNICATIONS
INFRASTRUCTURE AND DIGITAL CONNECTIVITY FOR KOTA KINABALU SMART CITY
PROJECT (SMART CONNECTIVITY INFRASTRUCTURE AND NETWORK OPERATION
COMMAND CENTRE)**

Ref: SKMM(T)/700-ETDD/PSDD/30-002/2026(5)
Date: 26 March 2026



1. BACKGROUND

- 1.1. The project aims to strengthen Kota Kinabalu's digital infrastructure and support its transition into a Smart City by deploying a comprehensive connectivity infrastructure. Key components include a fibre ring network, smart poles, public Wi-Fi, and a Network Operations Command Centre (NOCC). These initiatives are designed to address urban challenges such as safety, traffic congestion, and overcrowding while enabling data-driven decision-making.
- 1.2. This foundation is designed to enable reliable, high-capacity connectivity across the city, facilitating efficient public services and integrated operations essential for smart city readiness.

2. GENERAL SCOPE OF WORK

- 2.1. The project scope encompasses the end-to-end design, supply, installation, configuration, integration, testing, and commissioning, including a five (5) year operation and maintenance of key physical and network components. These include a fibre ring network, smart poles, public Wi-Fi access points, and Closed-Circuit Television (CCTV) infrastructure. Core to this system is the establishment of a NOCC to monitor and protect digital infrastructures in Kota Kinabalu and build a new data centre with high reliability to run digital applications. The NOCC will serve as the central hub for monitoring, controlling, and managing network performance, infrastructure availability, and incident response, ensuring cohesive operation of all assets.
- 2.2. The Designated Universal Service Plan (DUSP) shall undertake the scope of work provided under this Project, including but not limited to the following:
 - 2.2.1. Identify precise site locations for the installation and commissioning of communication infrastructure and digital connectivity facilities;
 - 2.2.2. Finalise the optimal deployment design and implementation methodology to ensure a cost-effective and efficient approach;
 - 2.2.3. Undertake project planning and coordination with relevant internal departments of the Relevant Authorities to secure all necessary permits and approvals for installation works, ensuring a streamlined and efficient approval process;



- 2.2.4. Implement the installation of digital facilities in strict accordance with the approved deployment design and implementation plan; and
 - 2.2.5. Providing 5-year operations and maintenance services, including preventive maintenance, fault rectification, system monitoring, and technical support to ensure continuous and reliable operation throughout the project lifecycle.
- 2.3. For ease of reference, the scope of work under this project is divided into the following two (2) parts:
- 2.3.1. **Part 1**- to design, supply, install, configure, test, commission and operate the fibre connectivity infrastructure, including the development of the core fibre optic backbone network, as well as the provision and installation of connectivity-enabled smart poles and multipurpose poles to support robust, high-capacity, and resilient network connectivity; and
 - 2.3.2. **Part 2** - to design, supply, install, configure, test, commission, and operate the Command Centre and smart systems, including the establishment of the NOCC and data centre, as well as the deployment of smart applications such as Wi-Fi, CCTV, and other digital solutions to enable integrated monitoring, management, and service delivery across the city.

3. DETAILED SCOPE OF WORK

- 3.1. The Interested Licensee shall select Part 1 or Part 2 or both, whichever is most relevant to their experience and expertise:

3.1.1 Part 1

- 3.1.1.1. End to end design of fibre network architecture;
- 3.1.1.2. Supply and installation of fibre optic cables;
- 3.1.1.3. Citywide network infrastructure and connectivity solutions, ensuring that fibre is ready for service;
- 3.1.1.4. Configuration and integration of network connectivity;
- 3.1.1.5. Testing and commissioning of fibre infrastructure;
- 3.1.1.6. Smart poles, multipurpose poles and edge device deployment;
- 3.1.1.7. Connectivity enablement for smart poles, Wi-Fi access points, CCTV, Data Centre and NOCC;
- 3.1.1.8. Ensure that the fibre network backbone is fully installed, tested,



and commissioned, and is capable of supporting seamless integration and interoperability with Part 2; and

- 3.1.1.9. Operation and maintenance of the network infrastructure for five (5) years, that includes preventive maintenance, fault rectification and technical support.

3.1.2 Part 2

- 3.1.2.1. Deployment of Wi-Fi, CCTV, and edge device;
- 3.1.2.2. Converged network operation command centre;
- 3.1.2.3. Renovation and fit-out of the designated network operation command centre premises;
- 3.1.2.4. Establishment, management and operation of the smart connectivity dashboard and visualisation layer;
- 3.1.2.5. Renovation and fit-out of the designated data centre for system hosting and supporting infrastructure;
- 3.1.2.6. Establishment, management and operation of smart surveillance and video analytics system;
- 3.1.2.7. Establishment, management and operation of events and incident management platform;
- 3.1.2.8. Operation and maintenance for a period of five (5) years covering NOCC operations, CCTV monitoring systems, Wi-Fi services, and Smart infrastructure, as well as technical support and incident management.

- 3.2. The DUSP shall design, deploy, integrate, and commission an end-to-end Smart Connectivity solution in compliance with the overall system architecture and interoperability requirements, covering all relevant components and technology domains based on Part 1 and Part 2.
- 3.3. All domains shall interoperate seamlessly via secure open interfaces (e.g., REST APIs). The system architecture shall support unified login, role-based access control, centralised user management, cross-domain data dashboards, and real-time correlation of system events.
- 3.4. In line with the scope outlined above, the table below provides a summary of the principal components and their respective estimated quantities required for the implementation of the Smart Connectivity project.



Table 1: Summary of Key Project Components and Estimated Quantities

No.	Part	Component Category	Estimated Quantity / Range
1	1	Fibre connectivity	Last mile 308km, 24 cores; Backbone: 50 km; 96 cores
2		Smart Poles	86 units
3		Multipurpose Pole	736 units
4		Fibre Network Backbone Equipment	Lot
5		Systems Testing, Integration, and Commissioning	Lot
6	2	Wireless Access Points	200 units
7		NOCC	1 facility
8		Designated Data Centre	1 facility
9		Smart applications and systems	Lot
10		CCTV	1,696 units
11		Systems Testing, Integration, and Commissioning	Lot
12	1 & 2	Operations and Maintenance (O&M)	5 years

4. REGISTRATION OF INTEREST REQUIREMENTS

- 4.1. The Interested Licensee which wishes to register its interest to become a DUSP pursuant to this Invitation shall hold the requisite licences with a minimum validity of six (6) months from the closing date, as stated in this Invitation (or has submitted its licence renewal application pursuant to section 34 of the Act to the Commission) to enable it to carry out the scope of work under this Invitation.
- 4.2. To undertake the work under Part 1, the Interested Licensee is required to hold a valid NFP(I) and NSP(I) licenses and for Part 2, to hold NFP(I), NSP(I) and ASP(C) licences providing internet access services, issued under the Act. The NFP(I) licence held by the Interested Licensee must allow the holder of the licence to own or provide the following network facilities under regulation 19 of the Communications and Multimedia (Licensing) Regulations 2000:



Part 1:

- 4.2.1. Fixed links and cables; and
- 4.2.2. Towers, poles, ducts, and pits to be used in conjunction with other network facilities

Part 2:

- 4.2.3. Radiocommunications transmitter and links; and
- 4.2.4. Internet Access Services
- 4.3. The licensed area specified under the NFP(I) licence shall be “Malaysia”.
- 4.4. The Interested Licensee shall meet the following eligibility requirements:
 - 4.4.1. Not owe any outstanding fees (e.g. licence/spectrum assignment and/or numbering assignments) or outstanding payments (e.g. liquidated damages) to the Commission;
 - 4.4.2. Has duly submitted its Return of Net Revenue (RONR) forms to the Commission for each year without fail; and
 - 4.4.3. Has no outstanding USP Fund contribution¹
 - 4.4.4. The Interested Licensee shall register its interest with the Commission by completing the Registration of Interest form enclosed in **Appendix A** of this Invitation.
- 4.5. The Interested Licensees are hereby reminded that pursuant to sub-regulation 6(1) of the USP Regulations, those who have registered their interest will be legally obliged to submit a Draft Universal Service Plan of this Invitation. An Interested Licensee who fails to comply with sub-regulation 6(1) commits an offence under the USP Regulations and shall, on conviction, be liable to a maximum fine of RM300,000.00 or imprisonment for a maximum term of three (3) years or both.

¹ This is applicable for the licensees which are legally obliged to contribute to the USP Fund, whose total net revenue for the previous calendar year meets the minimum revenue threshold of RM2 million from the licensable activity



- 4.6. Upon acceptance of the Registration of Interest (ROI), the Commission shall provide the Interested Licensees with a secured access link to the Request for Proposal (RFP) documentation, which shall include the Draft Universal Service Plan submission requirements, detailed guidelines, and the proposed schedule for the site survey.
- 4.7. Participation in the site survey shall be limited to Interested Licensees whose ROI has been accepted by the Commission. The site survey shall be conducted in accordance with the schedule and instructions set out in the complete RFP documentation and shall be subject to coordination with and approval from the relevant authorities, including but not limited to the Commission and Dewan Bandaraya Kota Kinabalu (DBKK).
- 4.8. The site survey shall be conducted strictly in accordance with the scope, requirements, guidelines, and timeline as may be prescribed by the said authorities, for the purpose of assessing site conditions, technical feasibility, infrastructure readiness, and any other matters necessary for the preparation of the Draft Universal Service Plan.
- 4.9. All costs, logistics, and resources associated with the site survey shall be fully borne by the Interested Licensee, and no claims whatsoever shall be made against the Commission in relation thereto.

5. CLOSING DATE

Submission of Registration of Interest

- 5.1. All Interested Licensees shall submit the duly completed Registration of Interest Form in scanned PDF copy format as enclosed in **Appendix A** of this Invitation on or before **10:00 am, 3rd April 2026 (Friday)**, via email at **kksmartconnectivity@mcmc.gov.my**
- 5.2. The Interested Licensee shall make available the original ROI form, in hardcopy to the Commission, if required.
- 5.3. Proof of submission shall take the form of the issuance of an acknowledgement email receipt to the sender from the same email address.
- 5.4. The Commission shall **NOT ACCEPT** any submission of the ROI form made by way of physical copy, fax, mail and/or any other means.



- 5.5. Subject to the timeline for submission of the ROI, if an Interested Licensee submits multiple forms, the Commission will accept the latest submission as final.

Any submission of the ROI Form received after the stipulated closing date and time, shall be rejected. The Interested Licensee is therefore advised to adhere strictly to the specified date and time and ensure that the ROI Form is submitted accordingly. In this respect, the Interested Licensee's proof of postage or other evidence of transmission shall not be accepted as proof of receipt by the Commission.