



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 INSTALLATION AND UPGRADING OF NETWORK FACILITIES FOR
Wi-Fi CONNECTIVITY AT EDUCATION INSTITUTIONS UNDER MAJLIS AMANAH
RAKYAT (MARA) UNDER THE UNIVERSAL SERVICE PROVISION INITIATIVE**

Ref: SKMM(S)/USPD/UPD/210/Jld.3(Invitation/Wi-Fi MARA/2025)

Date: 15 October 2025

TABLE OF CONTENTS

ABBREVIATIONS	4
INTERPRETATION	5
SECTION I	7
INTRODUCTION.....	7
1. BACKGROUND	7
SECTION II	8
OVERVIEW OF THE EVALUATION PROCESSES.....	8
2. INITIAL STAGE - INITIAL SUBMISSION AND EVALUATION	8
3. SECOND STAGE - SITE SURVEY AND FINAL SUBMISSION	9
SECTION III	11
DESCRIPTION OF SCOPE OF WORK.....	11
4. GENERAL DESCRIPTION OF THE FACILITIES TO BE PROVIDED.....	11
5. SCOPE OF WORK	12
6. DETAILED SCOPE OF WORK.....	13
SECTION IV.....	16
REGISTRATION OF INTEREST AND SUBMISSION OF THE DRAFT UNIVERSAL SERVICE PLAN.....	16
7. REGISTRATION OF INTEREST REQUIREMENTS	16
8. THE DRAFT UNIVERSAL SERVICE PLAN.....	17
9. SUBMISSION OF THE DRAFT UNIVERSAL SERVICE PLAN.....	17
10. CLOSING DATE	19
11. MATTERS FOR CONSIDERATION IN APPROVING THE DRAFT UNIVERSAL SERVICE PLAN.....	21
SECTION V.....	22
PAYMENT FROM THE USP FUND	22
12. CLAIMS FOR PAYMENT.....	22
SECTION VI.....	23
GENERAL TERMS AND CONDITIONS	23
13. DESIGN AND QUALITY OF SERVICE	23
14. DESIGN SPECIFICATION / CONFIGURATION	23
15. SUPPORT SERVICES	23
16. REPORT TO THE COMMISSION.....	23
17. SUPPLIED MATERIALS AND EQUIPMENT.....	24
18. APPROVAL FROM RELEVANT AUTHORITIES.....	24
19. INSPECTION AND AUDIT	25
20. SAFETY.....	25
21. EXTENSION OF TIME.....	26

22. EFFECT OF FORCE MAJEURE.....	26
23. PERFORMANCE BOND.....	26
24. APPOINTMENT OF ANOTHER PARTY BY DUSP TO UNDERTAKE THE WORKS UNDER THE PROJECT	27
25. CLARIFICATION AND ENQUIRIES.....	27
26. OMISSIONS OR ERRORS	28
APPENDIX 1 – REGISTRATION OF INTEREST FORM	29
APPENDIX 2 – LIST OF LOCATIONS FOR THE INSTALLATION AND UPGRADING OF NETWORK FACILITIES FOR WI-FI CONNECTIVITY AT RELEVANT EDUCATION INSTITUTIONS UNDER MARA.....	31
APPENDIX 3 – TECHNICAL DETAILS	40
APPENDIX 4 – FINANCIAL DETAILS	45
APPENDIX 5 – LICENSEE’S INFORMATION	53
APPENDIX 6 – CLAIM SCHEDULE	54

ABBREVIATIONS

AC	-	Access Controller
AP	-	Access Point
AS	-	Access Switch
BOQ	-	Bill of Quantity
CS	-	Core Switch
CAPEX	-	Capital Expenditure
CIDB	-	Construction Industry Development Board of Malaysia
DS	-	Distribution Switch
DUSP	-	Designated Universal Service Provider
KK	-	Ministry of Communications
km	-	Kilometre
LAT	-	Latitude
LONG	-	Longitude
LS	-	Lump Sum
m	-	Metre
MARA	-	Majlis Amanah Rakyat
Commission	-	Malaysian Communications and Multimedia Commission
NFP(I)	-	Network Facilities Provider Individual Licence
NMS	-	Network Monitoring System
PVC	-	Polyvinyl Chloride
Qty.	-	Quantity
Ref	-	Reference
RFS	-	Ready for Service
SEB	-	Sarawak Energy Berhad
SESB	-	Sabah Electricity Sdn Bhd
SOP	-	Standard Operating Policies and Procedures
SSID	-	Service Set Identifier
SSM	-	Companies Commission of Malaysia
TNB	-	Tenaga Nasional Berhad
UAT	-	User Acceptance Test
USP	-	Universal Service Provision
UST	-	Universal Service Target
UTP	-	Unshielded Twisted Pair
Wi-Fi	-	Wireless Fidelity
WLAN	-	Wireless Local-Area Network

INTERPRETATION

Any terms or words used in this Invitation shall, unless expressly stated or if the context otherwise requires, have the same meaning as provided in the Communications and Multimedia Act 1998 [(Act 588)], all subsidiary legislation and instruments issued, made or given by the Minister or the Commission.

- a) "Act" means the Communications and Multimedia Act 1998 (Act 588).
- b) "Approved Universal Service Plan" means the draft universal service plan (as defined herein) that has been approved by the Commission as specified under regulation 8 of the USP Regulations (as defined herein).
- c) "Bill of Quantity or BOQ" means the document attached in **Appendix 4** in which materials, parts, equipment and cost of labour are itemised. The BOQ is to be priced in Ringgit Malaysia and shall be inclusive of any applicable tax imposed by the Government of Malaysia. The sum of the amount shown in the BOQ shall represent the total cost for each education institution under MARA.
- d) "Commission" means the Malaysian Communications and Multimedia Commission established under the Malaysian Communications and Multimedia Commission Act 1998 [(Act 589)].
- e) "Completion Report" means a report to be compiled and maintained by the Designated Universal Service Provider on the completion of Work (as defined herein) for each identified location (as defined herein) for at least seven (7) years from the submission of the Declaration (as defined herein) for Milestone No. 4 as stipulated in **Appendix 6** in this Invitation.
- f) "Declaration" means a self-declaration made by the Chief Executive Officer or a person who holds an equivalent designation in the Designated Universal Service Provider that the scope of work for each stage as stipulated in the claim schedule attached to the Notification of Approval issued to the relevant Designated Universal Service Provider has been delivered in accordance to the Approved Universal Service Plan, and that all representations and information furnished to the Commission in the self-declaration are accurate and true.
- g) "Designated Universal Service Provider" means any Interested Licensee (as defined herein) designated by the Commission under regulation 9 of the USP Regulations pursuant to this Invitation.
- h) "Draft universal service plan" means a draft of the universal service plan submitted by the Interested Licensee as specified under regulation 6 of the USP Regulations.

- i) "Interested Licensee" means any person who holds a valid Network Facilities Provider Individual Licence under the Act, meets the eligibility criteria set pursuant to subregulation 5(2)(ga) of the USP Regulations, and registers its interest in responding to this Invitation.
- j) "Licensee" means a person who either holds an individual licence, or undertakes activities which are subject to a class licence, granted under the Act.
- k) "Notification of Approval" means a notification issued by the Commission to the Designated Universal Service Provider pursuant to regulation 9 of the USP Regulations.
- l) "Relevant Authorities" include but are not limited to the Fire and Rescue Department of Malaysia, the power supply providers (for example TNB, SEB and SESB), and all relevant local authorities.
- m) "Universal Service Target or UST" means an underserved area and/or an underserved group within the community.
- n) "USP Regulations" means the Communications and Multimedia (Universal Service Provision) Regulations 2002.
- o) "Shortlisted Licensee" means any selected person by the Commission who meets the eligibility criteria to proceed to the Second Stage of this Invitation.
- p) "Sites" means faculties, campuses, residential colleges, administrative buildings or other buildings identified by each education institution under MARA.
- q) "Work" means the entire scope of work to be undertaken and completed by the Designated Universal Service Provider pursuant to the Approved Universal Service Plan and the Notification of Approval issued by the Commission.

(the remainder of this page is intentionally left blank)

SECTION I INTRODUCTION

1. BACKGROUND

- 1.1. This USP initiative is part of the Commission's ongoing efforts to bridge the digital divide at the identified locations by providing access to Internet access services, in accordance with the objectives as specified in subregulation 3(1) of the USP Regulations.
- 1.2. The Commission has pursuant to subregulation 4(1) of the USP Regulations, specified the Universal Service Targets under Notification Ref. No: NT/USP/2/02, Ref. No: NT/USP/1/04, Ref. No: NT/USP/08/01, Ref. No: NT/USP/01/11, and Ref. No: NT/USP/01/21 respectively.
- 1.3. This Invitation is made pursuant to regulations 3, 3A, and 5 of the USP Regulations ("Invitation") to invite the Interested Licensee to register their interest to be the DUSP that undertakes the installation and upgrading of network facilities for Wi-Fi connectivity ("Project") at the identified locations, as specified in **Appendix 2** of this Invitation.
- 1.4. The initiative aims to enhance internet coverage for students, academic staff, administrative personnel, and visitors by providing secure, high-speed internet access through Wi-Fi connectivity across education institutions under MARA.
- 1.5. The latitude(s) and longitude(s) of the locations provided in **Appendix 2** are meant to serve as reference points only, to enable the Interested Licensee to identify the said locations.

(the remainder of this page is intentionally left blank)

SECTION II OVERVIEW OF THE EVALUATION PROCESSES

2. INITIAL STAGE - INITIAL SUBMISSION AND EVALUATION

- 2.1. This Invitation adopts a **two-stage evaluation process**. In the first stage, all Interested Licensees are required to:
 - 2.1.1. Submit their **Registration of Interest (“ROI”)** by **22 October 2025** as per **Appendix 1**; and
 - 2.1.2. Submit an **Initial Draft Universal Service Plan** by **5 November 2025**. The Initial Draft Universal Service Plan must be prepared based solely on the information provided in **Appendix 2, Appendix 3, and Appendix 4** of this Invitation.
- 2.2. No site survey is permitted at this stage. All Interested Licensees **must work from the same baseline data**.
- 2.3. Only Shortlisted Licensees will be notified by the Commission to proceed to the Second Stage. Uncontacted Interested Licensees shall be deemed unsuccessful. The interested licensee shall not contact or query the Commission directly or indirectly on the outcome of the shortlisting. Interested Licensee(s) that disregard this restriction may be construed as undue influence and may be disqualified.
- 2.4. The Initial Draft Universal Service Plan shall include the following components:
 - 2.4.1. A detailed quotation and price based on all scope of work listed in Section III;
 - 2.4.2. A list of relevant experience in implementing similar projects within the past three (3) years, including details on scope, value and complexity;
 - 2.4.3. Proposed team structure and manpower allocation, including the number of personnel and their roles;
 - 2.4.4. Technical capability and proposed solution quality; and
 - 2.4.5. Availability and readiness of equipment and materials for deployment.

3. SECOND STAGE - SITE SURVEY AND FINAL SUBMISSION

3.1. Following the initial evaluation process, the Shortlisted Licensee(s) will be invited to the next stage. This Stage involves:

3.1.1. **A mandatory site survey** at all relevant MARA institutions, as specified in **Appendix 2**. The Commission shall advise on the exact dates for the site survey to the Shortlisted Licensee(s); and

3.1.2. Submission of the **Second Draft Universal Service Plan** by a date to be determined by the Commission. This submission may be a revised version of the Initial Draft Universal Service Plan, incorporating additional technical details obtained from the post-survey findings.

3.2. During the site survey, Shortlisted Licensee(s) shall:

3.2.1. Visit the actual locations listed in **Appendix 2**;

3.2.2. Engage with representatives of MARA to validate technical requirements; and

3.2.3. Identify existing infrastructure, constraints and optimal technical requirements.

3.3. The Second Draft Universal Service Plan submitted will be evaluated to determine the final recommendation for designation and the Second Draft Universal Service Plan should reflect:

3.3.1. A detailed quotation and price proposal covering all costs associated with the Scope of Work outlined in Section III;

3.3.2. Technical designs based on actual site conditions, equipment specifications, and implementation methodology;

3.3.3. Finalisation of proposed team structure;

3.3.4. Availability and readiness of equipment and materials for deployment; and

3.3.5. Justification for any changes from the Initial Draft Universal Service Plan must be clearly stated and substantiated with relevant supporting evidence, documentation or data.

- 3.4. The Second Draft Universal Service Plan must not deviate significantly from the Initial Draft Universal Service Plan in terms of proposed monetary value. Any increase in cost must be clearly justified based on findings from the site survey and shall be subject to the Commission's review and approval.
- 3.5. The final designation of universal service providers will be based on a comprehensive evaluation of both technical and financial aspects, in accordance with the criteria set out in this Invitation.

(the remainder of this page is intentionally left blank)

SECTION III

DESCRIPTION OF SCOPE OF WORK

4. GENERAL DESCRIPTION OF THE FACILITIES TO BE PROVIDED

- 4.1. The network facilities to be provided under this Invitation shall include the supply, installation, configuration, integration and commissioning of wireless infrastructure and equipment (i.e. cables, APs, switches, controllers, NMS, software, license (e.g. license to operate) and any other required or components necessary to ensure the Wi-Fi network is fully operational and delivers seamless connectivity as specified in **Appendix 2** of this Invitation. Please note that **Appendix 2** is not exhaustive as it serves as a preliminary list and may be subject to updates.
- 4.2. Additional technical specifications, site details, and requirements may apply and will be communicated to the Interested Licensees who have submitted their ROI to the Commission. For the avoidance of doubt, any other requirements, specifications, clarifications, or documents issued by the Commission to the Interested Licensees after the issuance of this Invitation shall form part of the Interested Licensee's obligations under this Project and shall be deemed incorporated into the draft universal service plan.

Requirements of Shortlisted Licensee (Second Stage)

- 4.3. The Shortlisted Licensee(s) shall identify the specific requirements during the site survey and briefing session at the respective institution(s), to ensure the Wi-Fi network and services meet the requirements by MARA institutions. All equipment and services rendered must be directly related to the provisioning of Wi-Fi services. Applications or systems not related to Wi-Fi services, such as CCTV, data centres or other unrelated applications shall not be considered.

Obligations of DUSP

- 4.4. The scope of the Project also includes the provisioning of a comprehensive three (3) years support services package to ensure the reliability and optimal performance of the installed network facilities.
- 4.5. To ensure network readiness, proper installation, and thorough validation, the DUSP will implement a twelve (12) months cooling-off period following the completion of installation. During this period, the network's performance will be monitored and optimised as needed by the DUSP. **Figure 1** below provides an overview of the cooling-off period and the associated support services timeline.



Figure 1: Cooling-off and support services period

5. SCOPE OF WORK

5.1. This scope of work describes the requirements, timeline, documents and reports for the DUSP. The Interested Licensee shall read, understand and fulfil all obligations specified herein.

General Requirements

5.2. The DUSP shall provide cost-effective, technologically and environmentally sustainable solutions and materials to undertake this Project.

5.3. In undertaking this Project, the DUSP shall comply with the following:

5.3.1. The Act, any relevant subsidiary legislation made under the Act, including but not limited to the USP Regulations, other instruments, technical codes, guidelines or regulatory policies issued, made or given under the Act, including any amendment(s) or replacement(s) enacted thereafter;

5.3.2. Any other applicable requirements and/or conditions imposed by relevant authorities, state or local authorities, which are necessary to facilitate regulatory compliance or approvals for the planning and implementation phase of the Project;

5.3.3. Service Level Agreements (“**SLAs**”) established by the MARA institution(s) involved in the Project. The Licensee shall adhere to the respective standards, protocols, policies and requirements set by the MARA institution(s) to ensure quality, efficiency, and compliance with regulatory and institutional guidelines;

5.3.4. Any other requirements and/or conditions that may be imposed by the Commission from time to time; and

5.3.5. All relevant local laws and regulations which are legally binding in any State.

6. DETAILED SCOPE OF WORK

6.1. The DUSP shall be responsible for, but not limited to the following:

6.1.1. Identify the exact location of sites for the installation and upgrading of the network facilities at the identified locations as specified in **Appendix 2** of this Invitation.

6.1.2. Finalise the best design and method for deployment, ensuring an optimal cost-saving approach.

6.1.3. Undertake project planning and coordination with the relevant internal departments of the MARA institutions to obtain the necessary permits or approval for the installation works, ensuring a streamlined and efficient process.

6.1.4. Remove or relocate any existing AP or network components that may be obsolete or interfere with the new deployment of equipment, as required by the receiving parties i.e. the IT Department, or relevant department of each institution under MARA.

6.1.5. Installation and upgrading of the network facilities i.e. wireless AP, switches, wireless controller or any other relevant equipment as mentioned in paragraph 4.1. An illustration of a high-level design of the scope of work can be referred to in **Figure 2**.

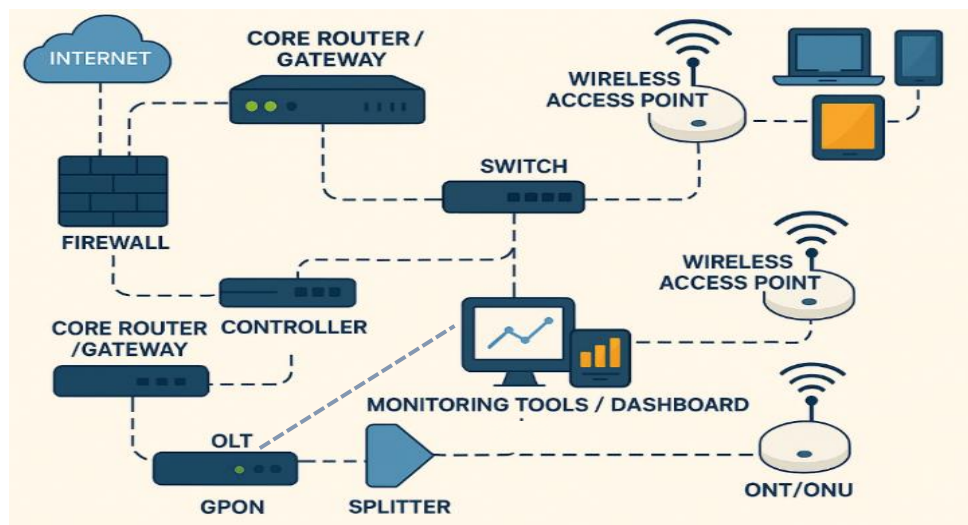


Figure 2: Illustration of high-level design of the scope of work (for reference only)

6.1.6. Upon completion, conduct an acceptance test to ensure that all newly installed and upgraded network facilities meet the specified requirements, specifications, and standards agreed upon by the receiving parties i.e the IT Department, or relevant department of each institution under MARA.

6.1.7. Perform integration works with the existing Wi-Fi system and existing core network by MARA to ensure seamless compatibility and optimal functionality, to avoid any potential issues during operation.

Implementation Period

6.2. The maximum implementation period for the DUSP shall **not exceed seven (7) months** from the commencement date specified in the Notification of Approval. The high-level overview of the seven (7) months implementation period is shown below:

No.	Month	Description
1.	1	<ul style="list-style-type: none"> • Discussion with the institution – to confirm AP locations, fibre routes, and academic coordination • Supply of AP & equipment, including procurement, delivery, site storage, and quality checks
2.	2.5	<ul style="list-style-type: none"> • CME works • Trunking and ducting installation • Fibre installation
3.	3	<ul style="list-style-type: none"> • AP installation
4.	0.5	<ul style="list-style-type: none"> • Testing and commissioning • Ready for service

Table 1: High Level Overview of the Implementation Period

6.3. The completion date shall be on the date of submission of the Declaration to the Commission for Milestone No. 2 as specified in the schedule of claims in **Appendix 6** of this Invitation ("**Completion Date**").

Warranty and Insurance

6.4. The DUSP shall be responsible for providing warranty and insurance for the items stipulated below:

Warranty

6.5. The period of warranty shall be for a minimum of 36 months, or as provided by the supplier, whichever is longer, for the equipment such as APs, switches, routers,

controllers, etc. and to be disclosed clearly in writing to the Commission, if required. The warranty provided shall benefit both DUSPs and the receiving party.

- 6.6. In the event of vandalism, the relevant MARA institutions shall be responsible for making immediate rectification and/or replacing any affected network facilities at its own cost.
- 6.7. The receiving party of each institution under MARA will liaise directly with the supplier of the equipment after twelve (12) months cooling-off period ends.

Insurance

- 6.8. The DUSP is required to take necessary measures to plan for contingencies at its own cost, such as the purchase and maintenance of all relevant insurances (including but not limited to insuring all assets from a natural disaster and having adequate public liability, fire and flood insurance coverage).
- 6.9. The relevant insurance must also be procured and maintained during the Implementation Period of this Project. Failure on the part to comply with this requirement shall result in the DUSP being solely responsible for all liabilities and/or losses that may arise. The insurance taken must be comprehensive and provide adequate coverage.

(the remainder of this page is intentionally left blank)

SECTION IV

REGISTRATION OF INTEREST AND SUBMISSION OF THE DRAFT UNIVERSAL SERVICE PLAN

7. REGISTRATION OF INTEREST REQUIREMENTS

- 7.1. 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.
- 7.2. The Interested Licensee is required to hold a valid NFP(I) licence 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:
- 7.2.1. Fixed links and cables;
 - 7.2.2. Radiocommunications transmitters and links; and
 - 7.2.3. Towers, poles, ducts, and pits to be used in conjunction with other network facilities.
- 7.3. The licensed area specified under the NFP(I) licence shall be “Malaysia”.
- 7.4. The Interested Licensee shall meet the following eligibility requirements:
- 7.4.1. Minimum two (2) years of experience in the installation of network facilities for fixed or Wi-Fi connectivity;
 - 7.4.2. Not owe any outstanding fees (e.g. licence/spectrum/numbering assignments) or outstanding payments (e.g. liquidated damages) to the Commission;
 - 7.4.3. Has duly submitted its Return of Net Revenue (RONR) forms to the Commission for each year without fail; and
 - 7.4.4. Has no outstanding USP Fund contribution¹.

¹ This is applicable for the licensees which are legally obliged to contribute to the USP Fund, where its total net revenue for the previous calendar year meets the minimum revenue threshold of RM2 million, from licensable activities specified under the Communications and Multimedia Act 1998.

- 7.5. The Commission shall have the right to reject and disqualify the submission of the Interested Licensee, which fails to comply with any requirements stated in subparagraphs 7.1, 7.2, 7.3 and 7.4 above.
- 7.6. The Interested Licensee shall register its interest with the Commission by completing the ROI form enclosed in **Appendix 1** of this Invitation.
- 7.7. The Interested Licensees are hereby reminded that pursuant to subregulation 6(1) of the USP Regulations, those who have registered their interest will be legally obliged to submit a draft universal service plan for the chosen cluster(s) specified in **Appendix 2** of this Invitation. An Interested Licensee who fails to comply with subregulation 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.
- 7.8. The ROI does not guarantee participation in site surveys. Only Shortlisted Licensee(s) will be notified by the Commission to proceed to the next stage.

8. THE DRAFT UNIVERSAL SERVICE PLAN

Technical Details

- 8.1. The template for submission of the Technical Details is provided in **Appendix 3** of this Invitation. The Technical Details in the draft universal service plan shall be in accordance with the detailed scope of work for this Project.

Financial Details

- 8.2. The template for submission of the Financial Details is provided in **Appendix 4** of this Invitation. The Financial Details in the draft universal service plan shall reflect clearly the costs for the implementation of work for this Project.

9. SUBMISSION OF THE DRAFT UNIVERSAL SERVICE PLAN

- 9.1. The Interested Licensee shall submit a single document in a separate sealed envelope marked as “**LICENSEE’S INFORMATION**”, which shall consist of the following:

- 9.1.1. Cover letter signed by the Chief Executive Officer or a person who holds an equivalent designation in the Interested Licensee; and

- 9.1.2. Information of the Interested Licensee and other supporting documents as detailed in **Appendix 5** of this Invitation.
- 9.2. The Interested Licensee shall submit the draft universal service plan based on its ROI in a **separate binding for each cluster** as specified in **Appendix 2** of this Invitation. The draft universal service plan submitted for each cluster(s) bid shall be divided into two (2) separate documents as follows:
- 9.2.1. Technical Details; and
- 9.2.2. Financial Details.
- 9.3. Submission of the ROI and the draft universal service plan shall strictly follow the method and format prescribed in this Invitation. Interested Licensee(s) who are found to have submitted copies of the ROI or the draft universal service plan to any third party, or to any other person within the Commission not authorised to receive such documents, may be disqualified from this Invitation.
- 9.4. All submissions must be made independently. Sharing of submission materials or any attempt to undue influence the evaluation process may result in disqualification.
- 9.5. The draft universal service plan shall be submitted as follows:
- 9.5.1. One (1) hard copy submission; and
- 9.5.2. **All pages of the Financial Details of the draft universal service plan shall be duly initialled and affixed with the company rubber stamp of the Interested Licensee.**
- 9.6. Pages for the draft universal service plan shall be numbered in the following format: <page number> of <total number of pages>.
- 9.7. The submission of the draft universal service plan shall be enclosed in a separate sealed envelope(s) labelled as follows:
- 9.7.1. **INVITATION REF. NO.: SKMM(S)/USPD/UPD/210/Jld.3 (Invitation/Wi-Fi MARA/2025)**
- 9.7.2. **SUBMISSION OF DRAFT UNIVERSAL SERVICE PLAN:**
1. **TECHNICAL DETAILS (Cluster No. #); or**
 2. **FINANCIAL DETAILS (Cluster No. #)**

9.7.3. **SUBMITTED BY: <Name of Interested Licensee>.**

- 9.8. In addition to the hardcopy, **digital copies of the Technical Details and Financial Details shall be submitted in thumb drives, according to the cluster bid.** The digital copies shall be in PDF format, and all the relevant working files i.e. the detailed BOQ in Excel format.
- 9.9. All documents mentioned above, including any appendices annexed thereto, shall be taken as being mutually explanatory of each other.
- 9.10. The Interested Licensee shall be deemed to have examined and understood all information and documents set out in this Invitation.
- 9.11. All costs and expenses associated with and necessary for the preparation and submission of the draft universal service plan shall be borne by the Interested Licensee, and are not claimable from the USP Fund.
- 9.12. All corrections, changes, alterations and/or any other amendments whatsoever made in the draft universal service plan shall be initialled and affixed with the Interested Licensee's company stamp.
- 9.13. All documents, which form part of the draft universal service plan(s) shall be properly and securely bound.
- 9.14. Handbooks and any other literature, if any, shall be bound in separate covers.

10. CLOSING DATE

Submission of Registration of Interest

- 10.1. All Interested Licensees shall submit the duly completed ROI Form in scanned PDF copy format as enclosed in **Appendix 1** of this Invitation **on or before 12:00pm, 22 October 2025**, via email at usp.planning@mcmc.gov.my
- 10.2. The Interested Licensee shall make available the original ROI form, in hardcopy to the Commission, if required.
- 10.3. Proof of submission shall take the form of the issuance of an automatic acknowledgement email receipt to the sender from the same email address.
- 10.4. Under this Invitation, the Interested Licensee may register its interest in any cluster, or all clusters in its entirety. The Commission will not accept any

Registration of Interest for part of a cluster, or any combination of clusters which includes two or more parts of different clusters.

- 10.5. The Commission shall **NOT ACCEPT** any submission of the ROI form made by way of physical copy, fax, mail and/or any other means.
- 10.6. In the event that an Interested Licensee submits multiple forms for the ROI, the Interested Licensee shall be disqualified from participation in this Invitation.

10.7. 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.

Submission of Initial Draft Universal Service Plan

- 10.8. An Interested Licensee shall submit the duly completed draft universal service plan **on or before 3:00pm, 5 November 2025** at:

**Malaysian Communications and Multimedia Commission
MCMC Centre of Excellence (CoE), Jalan Impact, Cyber 6,
63000 Cyberjaya, Selangor
(Attention: Universal Service Provision Division)**

- 10.9. The submission of the Initial Draft Universal Service Plan must match the ROI Form. The Commission will not accept the submission of a draft universal service plan for part of a cluster, or any combination of clusters which includes two or more parts of different clusters.
- 10.10. The Commission shall **NOT ACCEPT** any submission of a Initial Draft Universal Service Plan made by way of email, fax, mail and/or any other means.

10.11. Any submission of the Initial Draft Universal Service Plan, including any amendments made thereto, 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 Initial Draft Universal Service Plan 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.

Submission of Second Draft Universal Service Plan

10.12. Only Shortlisted Licensee(s), as determined by the Commission following the initial evaluation of the Initial Draft Universal Service Plans, will be notified to conduct a site survey at the MARA institutions as specified in **Appendix 2**.

10.13. Upon completion of the site survey, the Shortlisted Licensee(s) shall submit a duly completed Second Draft Universal Service plan **on a deadline to be determined by the Commission** at:

**Malaysian Communications and Multimedia Commission
MCMC Centre of Excellence (CoE), Jalan Impact, Cyber 6,
63000 Cyberjaya, Selangor
(Attention: Universal Service Provision Division)**

10.14. The Second Draft Universal Service Plan submitted by the Shortlisted Licensee(s) shall not deviate significantly from the Initial Draft Universal Service Plan in terms of the proposed monetary value. Any increase in cost must be clearly justified based on findings from the site survey and shall be subject to the Commission's review and approval.

10.15. The Commission shall **NOT ACCEPT** any submission of the Second Draft Universal Service Plan made by way of email, fax, mail and/or any other means.

10.16. Any submission of the Second Draft Universal Service Plan, including any amendments made thereto, 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 Second Draft Universal Service Plan 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.

11. MATTERS FOR CONSIDERATION IN APPROVING THE DRAFT UNIVERSAL SERVICE PLAN

11.1. The Commission will consider the matters specified in regulation 7 of the USP Regulations and all information included in the Initial and Second Draft Universal Service Plan in deciding whether or not to approve the Initial and Second Draft Universal Service Plan.

**SECTION V
PAYMENT FROM THE USP FUND**

12. CLAIMS FOR PAYMENT

- 12.1. The DUSP is entitled to claim the costs undertaken in respect of this Project for capital expenditure (“**CAPEX**”) only, pursuant to subregulation 19(2) of the USP Regulations.
- 12.2. The DUSP shall no longer be entitled to make any claims, for any work done during the Implementation Period, no later than one (1) year from the date of the submission of the final Declaration of the Project to the Commission.
- 12.3. Details of the payment schedule, timeline, terms and conditions, and the form and format to submit the claims will be specified in the Notification of Approval issued to the DUSP by the Commission. The claim schedule for the DUSPs is specified in **Appendix 6** of this Invitation.

(the remainder of this page is intentionally left blank)

SECTION VI GENERAL TERMS AND CONDITIONS

13. DESIGN AND QUALITY OF SERVICE

13.1. The DUSP shall be solely responsible for the correct design and configuration of the Wi-Fi network, including all works, network facilities, equipment, and services offered under this Project. If subsequent modifications or changes are necessary to enable the requirements for the Project to be met, the DUSP shall bear the additional cost involved for the modification or changes and is not entitled to claim for an additional cost from the USP Fund. The Commission reserves the right to reject any submission that includes equipment or services not directly related to Wi-Fi provisioning.

14. DESIGN SPECIFICATION / CONFIGURATION

14.1. It is anticipated that some matters may have to be clarified following the evaluation of the submission and during the early stages of installation of the facilities and equipment. In this respect, the Commission reserves the right to require written clarifications to be provided by the DUSP.

15. SUPPORT SERVICES

15.1. The DUSP is required to provide support services for three (3) years as outlined in paragraph 4.4 of this Invitation, from the date of the Work being declared completed as per Milestone No. 2 in **Appendix 6** of this Invitation. This is to ensure the functionality of all related network facilities and the continuous availability of services to end users.

15.2. The DUSP is required to coordinate directly with the MARA institutions for all matters related to support services, maintenance, and operational needs, if any.

16. REPORT TO THE COMMISSION

Project Implementation

16.1. During the Implementation Period, pursuant to regulation 13 of the USP Regulations, the DUSP shall submit a report on the progress of the implementation of the Approved Universal Service Plan on a weekly basis or any other frequency deemed suitable by the Commission, in the form and format specified by the Commission.

- 16.2. Upon completion of every claim milestone(s) stipulated in the Notification of Approval, the DUSP shall furnish the Commission with a Declaration signed by its Chief Executive Officer, or a person who holds an equivalent designation in the DUSP, in the form and format specified by the Commission in the Notification of Approval issued to the relevant DUSP.
- 16.3. The Declaration shall only be furnished to the Commission upon completion of the scope of work(s) for the relevant milestone(s) as stipulated in the schedule of claims specified in the Notification of Approval. It is the responsibility of the DUSP to ensure that all Work(s) has been delivered in accordance with the Approved Plan, and that all representations and information furnished to the Commission in the Declaration are accurate and true.
- 16.4. A Completion Report shall be prepared, compiled, and maintained by the DUSP on the completion of Work for each location under the cluster for at least seven (7) years from the submission of the Declaration for Milestone No. 4 as stipulated in the schedule of claims in **Appendix 6** of this Invitation.
- 16.5. The DUSP shall attend and meet with the Commission's representative(s), to provide an accurate update on the progress of the Project, and to provide timely reporting to the Commission as and when required by the Commission from time to time.

17. SUPPLIED MATERIALS AND EQUIPMENT

- 17.1. All items to be used in this Project by the DUSP shall be fit for the purpose which such items are intended for and be free from defects arising out of faulty design, faulty and inferior material or faulty workmanship.
- 17.2. All items supplied shall be genuine and brand new (i.e. not second-hand, reconditioned and/or used items).
- 17.3. The DUSP shall conduct all necessary on-site tests to ensure that all installations are properly completed and meet the required specifications. These tests shall be documented and submitted to the Commission upon request.
- 17.4. All materials and equipment must be sourced from authorised local suppliers, unless such suppliers are not available for the specific item required.

18. APPROVAL FROM RELEVANT AUTHORITIES

- 18.1. The DUSP shall be responsible for obtaining the necessary approvals from the local authority, electrical authority and/or all other relevant authorities before the commencement of Work.

18.2. The DUSP shall be solely responsible for any failure to obtain the necessary approvals including any additional costs to comply with the said authority's requirements.

19. INSPECTION AND AUDIT

19.1. The Commission and/or its appointed third-party agent(s) shall have the right to inspect and verify that all obligations due from the DUSP are fully complied with. The inspection and verification may include:

19.1.1. Conducting a physical inspection at the site to verify that the items and services are delivered according to the BOQ, timelines and specifications as contained in the Approved Universal Service Plan;

19.1.2. Verifying all relevant supporting documents submitted by the DUSPs in its claims for net universal service costs; and/or

19.1.3. Any other aspects that may be necessary by the Commission.

20. SAFETY

20.1. The DUSP shall:

20.1.1. Be responsible for ensuring the safety of the site(s), its employees and employees of its agents and/or vendors working at the site(s) at all times;

20.1.2. Enforce and take all necessary steps to ensure compliance with all safety measures for workmen, contractors and all other persons at the site as stipulated in all relevant safety-at-work legislation and regulations;

20.1.3. Ensure the structural integrity of the network facilities at all times and ensure compliance with all relevant laws and guidelines. Maintaining the structural integrity of the systems is critical to providing uninterrupted, high-quality service to users and preventing costly repairs or service outages; and

20.1.4. Indemnify and keep indemnified, protect and defend at its own cost and expense, the Commission and its authorised officer(s) from and against all actions, claims and liabilities arising out of acts done, omissions or breach of any conditions under the Project by DUSP, its employees or its agents.

21. EXTENSION OF TIME

21.1. The DUSP shall not request for an extension of time beyond the timeline that has been approved in the Approved Plan. For the avoidance of doubt, an extension of time may be considered by the Commission due to force majeure as specified in paragraph 22 of this Invitation.

22. EFFECT OF FORCE MAJEURE

22.1. An “Event of Force Majeure” is an event beyond the control of the DUSP, which results in the delay in the implementation timeline of this Invitation, which are:

22.1.1. War (whether declared or not), hostilities, invasion, act of foreign enemies;

22.1.2. Insurrection, revolution, rebellion, military, or usurped power, civil war, terrorism;

22.1.3. Natural catastrophe including but not limited to earthquakes, floods, subterranean spontaneous combustion or any operation of the forces of nature against which an experienced contractor could not reasonably have been expected to take precautions;

22.1.4. Nuclear explosion, radioactive or chemical contamination or radiation (unless caused by the negligent act(s), omission(s) or default of the workmen, contractors and all other persons at all times during the execution of the Work);

22.1.5. Pressure waves caused by aircraft or other devices travelling at sonic or supersonic speeds; and

22.1.6. Riot, commotion or disorder, unless solely restricted to employees of the workmen, contractors and all other persons for the execution of the Work.

23. PERFORMANCE BOND

23.1. The DUSP is required to submit a performance bond in the form of a Bank Guarantee issued by a local licensed financial institution under the Financial Services Act 2013 (“Performance Bond”) prior to the implementation of the Approved Universal Service Plan.

23.2. The Performance Bond shall be kept valid by the DUSP at all times, for the following duration:

- 23.2.1. The Performance Bond shall be valid from the commencement date of the Project specified in the Notification of Approval, until the completion of the Project; and
- 23.2.2. The Performance Bond for the DUSP shall be **ten percent (10%) of the approved total cost** of the Project. The DUSP shall ensure that the Performance Bond is always maintained at the value of 10% of the total approved cost of the Project throughout the period specified in the NoA.
- 23.3. It shall be the responsibility of the DUSP to ensure that a valid Performance Bond is furnished to the Commission at all times throughout the time period specified above.
- 23.4. In the event that the designation of the DUSP is revoked pursuant to the USP Regulations, the said Performance Bond or any balance thereof shall be forfeited.

24. APPOINTMENT OF ANOTHER PARTY BY DUSP TO UNDERTAKE THE WORKS UNDER THE PROJECT

- 24.1. The DUSP shall not appoint another person to perform the Project in its entirety, save where such appointment is to comply with any requirement and/or condition as set forth by any Authority for the implementation of the Project. If the DUSP appoints another person to perform the Project in its entirety in the absence of such requirement and/or condition of any Authority, the Commission shall have the right to:
- 24.1.1. Instruct the DUSP to terminate forthwith such appointment and shall be liable for all costs and expenses relating to such termination; and/or
- 24.1.2. Revoke the designation of the DUSP for the Project.
- 24.2. The DUSP, however, may appoint other persons to perform part of the works under the Project and shall be responsible for the acts, defaults or neglects of any person appointed, his contractors, agents or employees as if they were the acts or defaults of the DUSP.

25. CLARIFICATION AND ENQUIRIES

- 25.1. It is inevitable that some matters may have to be clarified following the evaluation of the submission and during the early stages of installation of the facilities and equipment. In this respect, the Commission reserves the right to issue written

clarifications on the specifications where necessary, to stipulate any requirements more clearly.

- 25.2. By registering its interest and submitting its Initial and Second Draft Universal Service Plan, the Interested Licensee is deemed to consent to the use of any of the information in the draft universal service plan or part thereof by the Commission for any purpose whatsoever.
- 25.3. Should there be a need to seek clarification and additional information regarding this Invitation, all enquiries shall be directed only to the USP Planning Department of the Commission via email at usp.planning@mcmc.gov.my
- 25.4. All relevant enquiries pertaining to this Invitation should reach the Commission **on or before 12:00pm, 24 October 2025.**

26. OMISSIONS OR ERRORS

- 26.1. The Interested Licensee is advised to study all terms, conditions and specifications in this Invitation very carefully, and seek necessary clarification before finalising its draft universal service plan under the USP Regulations.
- 26.2. The Interested Licensee shall be solely responsible for all such omissions/errors without any additional costs being chargeable to the Commission.

(the remainder of this page is intentionally left blank)

APPENDIX 1 – REGISTRATION OF INTEREST FORM

[To be printed on Interested Licensee's Letterhead]

REGISTRATION OF INTEREST

Ref. No (*Interested Licensee's reference number*) :

Date :

To: **MALAYSIAN COMMUNICATIONS AND MULTIMEDIA COMMISSION**
MCMC Tower 1, Jalan Impact, Cyber 6
63000 Cyberjaya, Selangor
(Attention: Universal Service Provision Division)

Date:

Dear Sirs,

REGISTRATION OF INTEREST TO BE A UNIVERSAL SERVICE PROVIDER FOR THE INSTALLATION AND UPGRADING OF NETWORK FACILITIES FOR Wi-Fi CONNECTIVITY AT RELEVANT EDUCATION INSTITUTIONS UNDER MARA UNDER THE UNIVERSAL SERVICE PROVISION INITIATIVE

Reference is made to the above and to the "Invitation to Register Interest as a Universal Service Provider – Ref. no. SKMM(S)/USPD/UPD/210/Jld.3(Invitation/Wi-Fi MARA/2025) ("Invitation") issued by MCMC.

2. We hereby register our interest to be the Universal Service Provider pursuant to Regulation 5(1) of the Communications and Multimedia (Universal Service Provision) Regulations 2002 ("USP Regulations") in the Universal Service Targets specified below: *[specify which cluster]*

1. Cluster No. 1
2. Cluster No. 2
3. Cluster No. 3
4. Cluster No. 4

3. In compliance with the requirements stipulated under the Communications and Multimedia Act 1998 and its subsidiary regulations, we provide below a detailed list of the licence currently held by our organisation.

Network Facilities Provider Individual (NFP(I)) : *[Specify Licence No.]*

4. We are also aware that pursuant to regulation 6(1) of the USP Regulations, we are legally obliged to submit the draft universal service plan(s) for the Universal Service Target on or before the time frame specified in the Invitation.

Signed for and on behalf of

[Company stamp]

.....

(Signature)

(Designation)

by *[to be signed by the Chief Executive Officer or a person who holds an equivalent designation in the Interested Licensee]*

(the remainder of this page is intentionally left blank)

APPENDIX 2 – LIST OF LOCATIONS FOR THE INSTALLATION AND UPGRADING OF NETWORK FACILITIES FOR WI-FI CONNECTIVITY AT RELEVANT EDUCATION INSTITUTIONS UNDER MARA

Note:

1. Shortlisted Licensee(s) who have submitted ROI shall be given further details regarding the site survey arrangements and requirements via email.
2. Only the Shortlisted Licensee(s) must conduct the necessary site surveys and seek necessary clarification with the representatives from each relevant education institution under MARA for the equipment required in finalising its Second Draft Universal Service Plan.

CLUSTER 1: INSTITUT KEMAHIRAN MARA (IKM), KOLEJ PROFESIONAL MARA (KPM), GERMAN-MALAYSIAN INSTITUTE (GMI), UNIVERSITI KUALA LUMPUR (UNIKL)

NO	SITE ID	LOCATION	NO OF AP	NO OF GPON	STATE	UST	LATITUDE	LONGITUDE
1.	IPMA_001	IKM Johor Bahru	157	0	Johor	Bandar Johor Bahru	1.5013	103.7301
2.	IPMA_002	IKM Sik	248	0	Kedah	Bandar Sik	5.8339	100.7563
3.	IPMA_003	IKM Sungai Petani	57	0	Kedah	Bandar Sungai Petani	5.6536	100.5017
4.	IPMA_004	IKM Alor Setar	0	0	Kedah	Bandar Alor Setar	6.1170	100.3545
5.	IPMA_005	IKM Jasin	147	0	Melaka	Jasin	2.3022	102.4388
6.	IPMA_006	IKM Seberang Perai Utara	109	0	P. Pinang	Mukim 13	5.4457	100.5100
7.	IPMA_007	IKM Tan Sri Yahya Ahmad (Pekan)	76	0	Pahang	Langgar	3.5357	103.3830
8.	IPMA_008	IKM Lumut	167	0	Perak	Sitiawan	4.1924	100.6576

NO	SITE ID	LOCATION	NO OF AP	NO OF GPON	STATE	UST	LATITUDE	LONGITUDE
9.	IPMA_009	IKM Beseri	120	0	Perlis	Beseri	6.5548	100.2298
10.	IPMA_0010	IKM Kota Kinabalu	264	0	Sabah	Kota Kinabalu	6.0849	116.1527
11.	IPMA_0011	IKM Bintulu	153	0	Sarawak	Bintulu	3.1326	113.0578
12.	IPMA_0012	IKM Kuching	106	0	Sarawak	Kuching	1.6173	110.3476
13.	IPMA_0013	IKM Besut	82	0	Terengganu	Kampung Raja	5.7642	102.5588
14.	IPMA_0014	IKM Kuala Lumpur	39	0	W.P. Kuala Lumpur	Ampang	3.1429	101.7336
15.	IPMA_0015	KPM Bandar Penawar	52	0	Johor	Tanjung Surat	1.5643	104.2193
16.	IPMA_0016	KPM Bandar Melaka	61	97	Melaka	Bandar Melaka	2.2065	102.2456
17.	IPMA_0017	KPM Ayer Molek	0	0	Melaka	Bukit Lintang	2.2141	102.3750
18.	IPMA_0018	KPM Indera Mahkota	0	239	Pahang	Kuala Kuantan	3.8391	103.2675
19.	IPMA_0019	KPM Sri Iskandar	0	126	Perak	Bandar Seri Iskandar	4.3731	100.9458
20.	IPMA_0020	KPM Beranang	0	264	Selangor	Beranang	2.9029	101.8657
21.	IPMA_0021	German - Malaysian Institute (GMI)	836	0	Selangor	Pekan Kampong Sungai Tangkas	2.9329	101.7981
22.	IPMA_0022	UniKL Malaysian Institute of Industrial Technology (MITEC)	211	392	Johor	Plentong	1.5248	103.8948
23.	IPMA_0023	UniKL Malaysian Spanish Institute (MSI)	115	0	Kedah	Bandar Kulim	5.3850	100.5748
24.	IPMA_0024	UniKL Malaysian Institute of Chemical and Bio-Engineering Technology (MICET)	78	0	Melaka	Taboh Naning	2.4571	102.1723

NO	SITE ID	LOCATION	NO OF AP	NO OF GPON	STATE	UST	LATITUDE	LONGITUDE
25.	IPMA_0025	UniKL Malaysian Institute of Marine Engineering Technology (MIMET)	153	25	Perak	Lumut	4.2745	100.6704
26.	IPMA_0026	UniKL Royal College of Medicine PERAK (RCMP)	204	217	Perak	Bandar Ipoh (N)	4.6026	101.0928
27.	IPMA_0027	UniKL British Malaysian Institute (BMI)	61	520	Selangor	Setapak	3.2515	101.7281
28.	IPMA_0028	UniKL Institute of Medical Science Technology (MESTECH)	87	97	Selangor	Bandar Kajang	2.9777	101.7912
29.	IPMA_0029	UniKL Malaysia France Institute (MFI)	147	0	Selangor	Bandar Baru Bangi	2.9285	101.7591
30.	IPMA_0030	UniKL Malaysian Institute of Aviation Technology (MIAT) Dengkil	229	370	Selangor	Dengkil	2.8516	101.7360
31.	IPMA_0031	UniKL Malaysian Institute of Aviation Technology (MIAT) Subang	102	0	Selangor	Sungai Buloh	3.1282	101.5675
32.	IPMA_0032	UniKL Business School Quill Mall Campus	74	0	W.P. Kuala Lumpur	Bandar Kuala Lumpur	3.1600	101.7003
33.	IPMA_0033	UniKL Business School Jalan Gurney	47	0	W.P. Kuala Lumpur	Bandar Kuala Lumpur	3.1671	101.7207
34.	IPMA_0034	UniKL Malaysia Italy Design Institute (MIDI)	130	0	W.P. Kuala Lumpur	Ampang	3.1284	101.7382
35.	IPMA_0035	UniKL Malaysian Institute of Information Technology (MIIT)	198	251	W.P. Kuala Lumpur	Bandar Kuala Lumpur	3.1593	101.7014

CLUSTER 2: KOLEJ KEMAHIRAN TINGGI MARA (KKTm), KOLEJ MARA (KM), KOLEJ POLY-TECH MARA (KPTM) & UNIVERSITI POLY-TECH MARA (UPTM)

NO	SITE ID	LOCATION	NO OF AP	NO OF GPON	STATE	UST	LATITUDE	LONGITUDE
1.	IPMA_036	KKTm Ledang	331	0	Johor	Serom	2.1705	102.5911
2.	IPMA_037	KKTm Sri Gading	604	0	Johor	Sri Gading	1.8506	103.0789
3.	IPMA_038	KKTm Pasir Mas	155	0	Kelantan	Apam	6.0043	102.0962
4.	IPMA_039	KKTm Masjid Tanah	213	0	Melaka	Ramuan China Besar	2.4256	102.0695
5.	IPMA_040	KKTm Rembau	214	0	Negeri Sembilan	Kundor	2.5198	102.0339
6.	IPMA_041	KKTm Balik Pulau	276	0	P. Pinang	Mukim 6	5.3314	100.2173
7.	IPMA_042	KKTm Kuantan	252	0	Pahang	Kuala Kuantan	3.7792	103.2589
8.	IPMA_043	KKTm Lenggong	502	0	Perak	Durian Pipit	5.0038	100.9632
9.	IPMA_044	MJII Beranang	466	0	Selangor	Beranang	2.9049	101.8644
10.	IPMA_045	KKTm Kemaman	267	0	Terengganu	Banggul	4.1910	103.4069
11.	IPMA_046	KKTm Petaling Jaya	0	0	W.P. Kuala Lumpur	Bandar Petaling Jaya	3.0838	101.6546
12.	IPMA_047	KM Kuala Nerang	0	396	Kedah	Bandar Kuala Nerang	6.2401	100.5979
13.	IPMA_048	KM Kulim	21	398	Kedah	Bandar Kulim	5.3514	100.5380
14.	IPMA_049	KM Seremban	0	190	Negeri Sembilan	Bandar Seremban	2.7183	101.9511
15.	IPMA_050	KM Banting	39	444	Selangor	Pekan Bukit Changgang	2.8199	101.6238

NO	SITE ID	LOCATION	NO OF AP	NO OF GPON	STATE	UST	LATITUDE	LONGITUDE
16.	IPMA_051	KPTM Batu Pahat	76	160	Johor	Simpang Kanan	1.8564	103.0165
17.	IPMA_052	KPTM Alor Setar	12	93	Kedah	Bandar Alor Setar	6.1273	100.3541
18.	IPMA_053	KPTM Kota Bharu	147	262	Kelantan	Bandar Kota Bharu	6.1122	102.2316
19.	IPMA_054	KPTM Kuantan	34	437	Pahang	Kuala Kuantan	3.7718	103.2682
20.	IPMA_055	KPTM Ipoh	53	104	Perak	Hulu Kinta	4.6662	101.0915
21.	IPMA_056	KPTM Bangi	46	615	Selangor	Bandar Baru Bangi	2.9317	101.7593
22.	IPMA_057	Universiti Poly-Tech MARA	104	104	W.P. Kuala Lumpur	Ampang	3.1278	101.7375

(the remainder of this page is intentionally left blank)

CLUSTER 3: MAKTAB RENDAH SAINS MARA (MRSM)

NO	SITE ID	LOCATION	NO OF AP	NO OF GPON	STATE	UST	LATITUDE	LONGITUDE
1.	IPMA_0058	MRSM Batu Pahat	308	0	Johor	Simpang Kiri	1.9198	102.8671
2.	IPMA_0059	MRSM Johor Bahru	257	0	Johor	Plentong	1.5200	103.8919
3.	IPMA_0060	MRSM Mersing	286	0	Johor	Mersing	2.3893	103.8459
4.	IPMA_0061	MRSM Muar	265	0	Johor	Jalan Bakri	2.0400	102.6536
5.	IPMA_0062	MRSM Tun Dr Ismail (Pontian)	295	0	Johor	Ayer Baloi	1.6109	103.3193
6.	IPMA_0063	MRSM Alor Gajah	117	0	Melaka	Ayer Pa' Abas	2.4072	102.1609
7.	IPMA_0064	MRSM Terendak	342	0	Melaka	Sungei Baru Ulu	2.2889	102.1144
8.	IPMA_0065	MRSM Tun Ghafar Baba (Jasin)	279	0	Melaka	Jasin	2.3006	102.4412
9.	IPMA_0066	MRSM Gemencheh	239	0	Negeri Sembilan	Gemencheh	2.5800	102.4783
10.	IPMA_0067	MRSM Kuala Klawang	213	0	Negeri Sembilan	Pekan Titi	2.9794	102.0624
11.	IPMA_0068	MRSM Serting	129	0	Negeri Sembilan	Bandar Serting	2.9059	102.4041
12.	IPMA_0069	MRSM Bentong	153	0	Pahang	Bentong	3.4726	101.9101
13.	IPMA_0070	MRSM Bera	107	0	Pahang	Bera	3.1971	102.4793
14.	IPMA_0071	MRSM Kuantan	278	0	Pahang	Bandar Kuantan	3.8221	103.3524
15.	IPMA_0072	MRSM Muadzam Shah	323	0	Pahang	Bandar Muadzam Shah	3.0593	103.0802

NO	SITE ID	LOCATION	NO OF AP	NO OF GPON	STATE	UST	LATITUDE	LONGITUDE
16.	IPMA_0073	MRSM Tun Abdul Razak (Pekan)	218	0	Pahang	Kuala Pahang	3.5569	103.3928
17.	IPMA_0074	MRSM Tun Ghazali Shafie (Kuala Lipis)	277	0	Pahang	Kuala Lipis	4.1704	102.1004
18.	IPMA_0075	MRSM Bagan Datuk	109	0	Perak	Bagan Datuk	3.9671	100.7866
19.	IPMA_0076	MRSM Felda, Trolak	224	0	Perak	Sungkai	3.9219	101.3490
20.	IPMA_0077	MRSM Gerik	174	0	Perak	Kenering	5.3840	101.0564
21.	IPMA_0078	MRSM Lenggong	322	0	Perak	Durian Pipit	5.0336	100.9553
22.	IPMA_0079	MRSM Parit	220	0	Perak	Belanja	4.4841	100.9192
23.	IPMA_0080	MRSM Pasir Salak	330	0	Perak	Kampung Gajah	4.2040	100.9638
24.	IPMA_0081	MRSM Pengkalan Hulu	262	0	Perak	Pengkalan Hulu	5.7182	100.9907
25.	IPMA_0082	MRSM Sultan Azlan Shah (Kuala Kangsar)	249	0	Perak	Kota Lama Kiri	4.8580	100.9020
26.	IPMA_0083	MRSM Taiping	96	0	Perak	Tupai	4.8647	100.7594
27.	IPMA_0084	Pusat Kepimpinan Pelajar MARA Lenggong (PUSKEP)	13	0	Perak	Temelong	5.0365	100.9560
28.	IPMA_0085	MRSM Kuala Kubu Bahru	190	0	Selangor	Buluh Telor	3.5489	101.6758
29.	IPMA_0086	MRSM Sungai Besar	287	0	Selangor	Sungai Panjang	3.7091	101.1345

CLUSTER 4: MAKTAB RENDAH SAINS MARA (MRSM)

NO	SITE ID	LOCATION	NO OF AP	NO OF GPON	STATE	UST	LATITUDE	LONGITUDE
1.	IPMA_0087	MRSM Baling	285	0	Kedah	Pulai	5.6389	100.9051
2.	IPMA_0088	MRSM Kubang Pasu	206	0	Kedah	Bandar Jitra	6.3010	100.4149
3.	IPMA_0089	MRSM Langkawi	258	0	Kedah	Bandar Kuah	6.3402	99.8683
4.	IPMA_0090	MRSM Merbok	353	0	Kedah	Bandar Merbok	5.7021	100.4374
5.	IPMA_0091	MRSM PDRM Kulim	240	0	Kedah	Bandar Kulim	5.3336	100.5371
6.	IPMA_0092	MRSM Pendang	293	0	Kedah	Bandar Pendang	5.9465	100.4803
7.	IPMA_0093	MRSM Jeli	315	0	Kelantan	Bandar Jeli	5.7499	101.8606
8.	IPMA_0094	MRSM Kuala Krai	355	0	Kelantan	Kuala Pahi	5.5032	102.2191
9.	IPMA_0095	MRSM Pasir Tumbuh	194	0	Kelantan	Guntong	6.0564	102.2855
10.	IPMA_0096	MRSM Pengkalan Chepa	191	0	Kelantan	Kemumin	6.1570	102.2944
11.	IPMA_0097	MRSM Tumpat	361	0	Kelantan	Geting	6.2178	102.1218
12.	IPMA_0098	MRSM Balik Pulau	64	0	P. Pinang	Mukim 6	5.3315	100.2282
13.	IPMA_0099	MRSM Transkrian	235	0	P. Pinang	Mukim 9	5.1552	100.4840
14.	IPMA_0100	MRSM Tun Abdullah Ahmad Badawi (Kepala Batas)	217	0	P. Pinang	Mukim 6	5.5219	100.4731
15.	IPMA_0101	MRSM Arau	232	0	Perlis	Kurong Anai	6.4507	100.3473
16.	IPMA_0102	MRSM Beseri	197	0	Perlis	Beseri	6.5531	100.2312
17.	IPMA_0103	MRSM Kota Kinabalu	294	0	Sabah	Papar	5.8008	116.0147
18.	IPMA_0104	MRSM Semporna	244	0	Sabah	Semporna	4.4280	118.5442

NO	SITE ID	LOCATION	NO OF AP	NO OF GPON	STATE	UST	LATITUDE	LONGITUDE
19.	IPMA_0105	MRSM Tun Mohamad Fuad Stephens (Sandakan)	252	0	Sabah	Sandakan	5.9090	118.0000
20.	IPMA_0106	MRSM Tun Mustapha (Tawau)	210	0	Sabah	Tawau	4.2672	117.9501
21.	IPMA_0107	MRSM Ranau	0	0	Sabah	Tawau	5.9929	116.6825
22.	IPMA_0108	MRSM Betong	268	0	Sarawak	Betong	1.3721	111.5782
23.	IPMA_0109	MRSM Kuching	191	0	Sarawak	Kuching	1.6199	110.3446
24.	IPMA_0110	MRSM Mukah	193	0	Sarawak	Mukah	2.8852	112.0771
25.	IPMA_0111	MRSM Bintulu	0	0	Sarawak	Bintulu	3.1389	113.0615
26.	IPMA_0112	MRSM Besut	388	0	Terengganu	Keluang	5.7803	102.5857
27.	IPMA_0113	MRSM Kota Putra	384	0	Terengganu	Keluang	5.8045	102.5904
28.	IPMA_0114	MRSM Kuala Berang	331	0	Terengganu	Kuala Berang	5.0760	102.9787
29.	IPMA_0115	MRSM Kuala Terengganu	271	0	Terengganu	Batu Rakit	5.4193	103.0607

(the remainder of this page is intentionally left blank)

APPENDIX 3 – TECHNICAL DETAILS

SECTION A: EXECUTIVE SUMMARY FOR CLUSTER NO. # **(To be included in the Initial & Second Draft Universal Service Plan)**

- Overview of the technical details
- Organisation chart – Project team and manpower
- Details implementation timeline – Gantt Chart

SECTION B: TECHNICAL DETAILS FOR CLUSTER NO. # **(To be included in the Initial & Second Draft Universal Service Plan)**

DESCRIPTION	QUANTITY
A. PRELIMINARY WORKS	
<ol style="list-style-type: none"> 1. Site Survey, Site Planning, and Project Management 2. Initial design & planning. 3. Pre installation setup for AP at the designated locations as per network design and planning 	
B. EQUIPMENT & MATERIALS	
<p>l) Supply, delivery, and installation of network elements and related accessories, such as and NOT limited to Wi-Fi AP, AP Controller, Switches (Access, Distribution, Core), SFP, Server, NMS, latest MS Server, Firewall, Rack, Smart Rack, AVR and all necessary/ required license for all equipment</p> <ol style="list-style-type: none"> 1. High-end AP e.g. Wi-Fi 6E (or equivalent or better) 2. Switches complete with accessories 3. Controller complete with accessories/ (optional for Cloud Base) 4. Router complete with accessories 5. Minimum SFP (10G) for single-mode/ multimode 6. Point to Point (PTP)/ Point to Multipoint (PTMP) (where applicable): <ol style="list-style-type: none"> 6.1 Please specify the manufacturer and model for all equipment and include the specification sheet. 6.2 Please specify licenses package/ type (if applicable) associated with the equipment installed and for future expansion (if applicable). 6.3 Please specify any other necessary items required. 6.4 Please provide a quantity breakdown by sites and clusters. 7. Power supply installation. 	

<p>7.1 All cabling must be installed in metal trunking, cable tray/ conduit where appropriate.</p> <p>Please specify any other additional items required.</p>	
<p>II) Supply, delivery, and installation of PON/ FTTH network elements and related accessories such as and NOT limited to ONU, OLT, ODF/ FTU, FDC and all necessary/ required license for all equipment</p> <ol style="list-style-type: none"> 1. Indoor OLT (where applicable) <ol style="list-style-type: none"> 1.1 Installation of OLT rack, shelf and cards 1.2 Laying power cable from OLT to power source 1.3 Patch Cord patching from ODF to Metro Ethernet or Fiber Distribution Frame. 1.4 OLT configuration 2. Outdoor OLT (where applicable) <ol style="list-style-type: none"> 2.1 Construction of OLT Outdoor plinth. 2.2 Installation of OLT Outdoor cabinet. 2.3 Pulling of fiber optic cable from the nearest manhole and terminating inside the OLT Outdoor. 2.4 Laying of power cable and ground cable to the nearest power cabinet. 2.5 OLT configuration. 3. Power supply installation. <ol style="list-style-type: none"> 3.1 All cabling must be installed in metal trunking, cable tray/ conduit where appropriate. 4. Optical Distribution Frame (ODF)/ Fiber Termination Unit (FTU) & Fiber Distribution Cabinet (FDC) <ol style="list-style-type: none"> 4.1 Installation of ODF/ FTU where appropriate. 4.2 Installation of the main underground fiber optic cable via duct. 4.3 If needed, erect of aerial fiber optic cable on a pole on the main fiber optic cable route. 4.4 Splicing and termination of fiber optic cable inside the ODF/ FTU and in closure jointing. 4.5 Testing of the main fiber optic cable using OTDR/Power Meter. 4.6 Construction of FDC plinth. 4.7 Installation of FDC and installation of pipe from FDC plinth to the nearest manhole. 4.8 Splicing and termination fiber optic cable (spur) inside the FDC. Erection of aerial fiber optic cable from FDC via pole or installation of underground fiber optic cable via duct from FDC. 4.9 Testing of FDP, OTDR and ONU 	

Please specify any other additional items required.	
<p>III) Supply, delivery and installation of network cabling materials</p> <ol style="list-style-type: none"> 1. Fibre optic (where applicable) <ol style="list-style-type: none"> 1.1 Single-mode and multimode type (where appropriate). 1.2 Internal wiring for PON/ FTTH Network: <ol style="list-style-type: none"> 1.2.1 Minimum of 2 cores for each premises. 1.2.2 Vertical Cabling: Cable runs vertically inside riser to every floor for multi dwelling unit with minimum of 2 cores for each premises with buffer/extra cores for maintenance purposes and terminated at FTB at each floor. 1.2.3 Horizontal Cabling: minimum of 2 cores for each premises terminated at Fiber Wall Socket (FWS). 1.2.4 Main FTB at Telecommunication Room (TR) or agreed space by Building Management (BM) 1.2.5 FTB: Direct splice or standard SC/UPC or SC/APC connector pre-connected to every housing unit 2. UTP cables – Minimum Cat.6A 3. Fibre optic / UTP connector and its accessories 4. Fibre optic / UTP wall socket completes with accessories 5. PVC / Metal trunking for fibre optic / UTP cables. 6. Laying up cables between router, controller, switches, and AP locations. 7. Route cables through conduit, ducts, or trunking as per site requirements. 8. Terminate and test all cable connections with appropriate labelling 9. Civil Work which covers end to end including but not limited to submission, HSE protocol, LA/ LC guideline compliance (Where applicable): <ol style="list-style-type: none"> 9.1 HDD 2 Way HDPE Duct PN10 9.2 Open Cut & Duct (Min 2-way) 9.3 Supply, delivery and install iron pole 9.4 Supply, delivery and install concrete pole 9.5 Supply, delivery and install manhole 9.6 Perform UDM Works. <p>Please specify any other additional items required.</p>	
<p>IV) Relocation of AP and related accessories/ equipment</p> <ol style="list-style-type: none"> 1. Dismantling and re-installation of existing AP and its related accessories/ equipment. 	

Please specify any other additional items required.	
<p>V) Replacement of existing cabling</p> <ol style="list-style-type: none"> 1. Dismantle existing cable and install new network cable material (where applicable): 2. Fibre optic (where applicable) <ol style="list-style-type: none"> 2.1 Single mode and multimode type (where appropriate) 2.2 Internal wiring for PON/ FTTH Network: <ol style="list-style-type: none"> 2.2.1 Minimum of 2 cores for each premises 2.2.2 Vertical Cabling: Cable runs vertically inside riser to every floor for multi dwelling unit with minimum of 2 cores for each premises with buffer/extra cores for maintenance purposes and terminated at FTB at each floor 2.2.3 Horizontal Cabling: minimum of 2 cores for each premises terminated at Fiber Wall Socket (FWS) 2.2.4 Main FTB at Telecommunication Room (TR) or agreed space by Building Management (BM) 2.2.5 FTB: Direct splice or standard SC/UPC or SC/APC connector pre-connected to every housing unit 3. UTP cables – Minimum Cat.6A 4. Fibre optic / UTP connector and its accessories 5. Fibre optic / UTP wall socket completes with accessories 6. PVC / Metal trunking for fibre optic / UTP cables 7. Laying up cables between router, controller, switches, and AP locations 8. Route cables through conduit, ducts, or trunking as per site requirements 9. Terminate and test all cable connections with appropriate labelling <p>Please specify any other additional items required.</p>	

(the remainder of this page is intentionally left blank)

DESCRIPTION	QUANTITY
C. TESTING & COMMISSIONING	
<ol style="list-style-type: none"> 1. AP configuration <ol style="list-style-type: none"> 1.1 Configure APs with designated SSIDs, WLANs, IP addresses, and security protocol 1.2 Optimize channel allocation and transmission power for maximum efficiency 2. Switch, controller and router configuration 3. OLT, ONU configuration 4. Server & firewall configuration 5. Equipment labelling for asset inventory 6. Integration with existing Network Component 7. Testing & commissioning E2E from Main FTB to FWS. 8. User Acceptance Testing (UAT), knowledge transfer & documentation 	
D. WARRANTY & SUPPORT SERVICES	
<ol style="list-style-type: none"> 1. Warranty for three (3) years (all equipment) 2. Periodic maintenance schedule (minimum of twice a year) 3. Immediate replacement of faulty equipment within warranty period 4. Second-level support within warranty period for equipment and hardware 5. Provide training (where applicable) 	

SECTION C: PROPOSED NETWORK DESIGN FOR CLUSTER NO. #
(To be included in the Second Draft Universal Service Plan)

- Technical Site Survey Report (TSSR)
- Overview of the network design, location of the APs, AC, switches, rack, server, OLT and others (please specify clearly)
- Network diagram by sites/ building/ floor
- AP plotting and coverage simulation (i.e. Heat map)

(the remainder of this page is intentionally left blank)

APPENDIX 4 – FINANCIAL DETAILS

1. All prices shall be inclusive of any applicable tax, fees and levy imposed by the Government.
2. The Interested Licensee further agrees that the amount stipulated in this Financial Details is on a fixed firm lump sum basis. The same is deemed to include all ancillary works and expenditure, which may or may not have been specifically mentioned and/or described herein, but which are indispensably or contingently necessary to be carried out to bring the Project to its completion or to overcome difficulties before the completion. Any costs incurred by the Licensee beyond the Approved Cost by the Commission shall be wholly borne by the Interested Licensee.

SECTION A: FINANCIAL DETAILS FOR CLUSTER NO.

DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (RM)	TOTAL PRICE (RM)
A. PRELIMINARY WORKS				
<ol style="list-style-type: none"> 1. Site Survey, Site Planning, and Project Management 2. Initial design & planning. 3. Pre installation setup for AP at the designated locations as per network design and planning 				
B. EQUIPMENT & MATERIALS				
<p>l) Supply, delivery, and installation of network elements and related accessories, such as and NOT limited to Wi-Fi AP, AP Controller, Switches (Access, Distribution, Core), SFP, Server, NMS, latest MS Server, Firewall, Rack, Smart Rack, AVR and all necessary/required license for all equipment</p> <ol style="list-style-type: none"> 1. High-end AP e.g. Wi-Fi 6E (or equivalent or better) 2. Switches complete with accessories 				

<p>3. Controller complete with accessories/ (optional for Cloud Base)</p> <p>4. Router complete with accessories</p> <p>5. Minimum SFP (10G) for single-mode/ multimode</p> <p>6. Point to Point (PTP)/ Point to Multipoint (PTMP) (where applicable):</p> <p>6.1 Please specify the manufacturer and model for all equipment and include the specification sheet.</p> <p>6.2 Please specify licenses package/ type (if applicable) associated with the equipment installed and for future expansion (if applicable).</p> <p>6.3 Please specify any other necessary items required.</p> <p>6.4 Please provide a quantity breakdown by sites and clusters.</p> <p>7. Power supply installation.</p> <p>7.1 All cabling must be installed in metal trunking, cable tray/ conduit where appropriate.</p> <p>Please specify any other additional items required.</p>				
<p>II) Supply, delivery, and installation of PON/ FTTH network elements and related accessories such as and NOT limited to ONU, OLT, ODF/ FTU, FDC and all necessary/ required license for all equipment</p> <p>1. Indoor OLT (where applicable)</p> <p>1.1 Installation of OLT rack, shelf and cards</p> <p>1.2 Laying power cable from OLT to power source</p> <p>1.3 Patch Cord patching from ODF to Metro Ethernet or Fiber</p>				

<p>Distribution Frame.</p> <ol style="list-style-type: none"> 1.4 OLT configuration <p>2. Outdoor OLT (where applicable)</p> <ol style="list-style-type: none"> 2.1 Construction of OLT Outdoor plinth. 2.2 Installation of OLT Outdoor cabinet. 2.3 Pulling of fiber optic cable from the nearest manhole and terminating inside the OLT Outdoor. 2.4 Laying of power cable and ground cable to the nearest power cabinet. 2.5 OLT configuration. <p>3. Power supply installation.</p> <ol style="list-style-type: none"> 3.1 All cabling must be installed in metal trunking, cable tray/ conduit where appropriate. <p>4. Optical Distribution Frame (ODF)/ Fiber Termination Unit (FTU) & Fiber Distribution Cabinet (FDC)</p> <ol style="list-style-type: none"> 4.1 Installation of ODF/ FTU where appropriate. 4.2 Installation of the main underground fiber optic cable via duct. 4.3 If needed, erect of aerial fiber optic cable on a pole on the main fiber optic cable route. 4.4 Splicing and termination of fiber optic cable inside the ODF/ FTU and in closure jointing. 4.5 Testing of the main fiber optic cable using OTDR/Power Meter. 4.6 Construction of FDC plinth. 4.7 Installation of FDC and installation of pipe from FDC plinth to the nearest manhole. 4.8 Splicing and termination fiber optic cable (spur) inside the FDC. Erection of aerial fiber optic cable from FDC via pole or installation of underground fiber optic cable via duct from FDC. 4.9 Testing of FDP, OTDR and 				
--	--	--	--	--

<p style="text-align: center;">ONU</p> <p>Please specify any other additional items required.</p>				
<p>III) Supply, delivery and installation of network cabling materials</p> <ol style="list-style-type: none"> 1. Fibre optic (where applicable) <ol style="list-style-type: none"> 1.1 Single-mode and multimode type (where appropriate). 1.2 Internal wiring for PON/ FTTH Network: 1.3 Minimum of 2 cores for each premises. 1.4 Vertical Cabling: Cable runs vertically inside riser to every floor for multi dwelling unit with minimum of 2 cores for each premises with buffer/extra cores for maintenance purposes and terminated at FTB at each floor. 1.5 Horizontal Cabling: minimum of 2 cores for each premises terminated at Fiber Wall Socket (FWS). 1.6 Main FTB at Telecommunication Room (TR) or agreed space by Building Management (BM) 1.7 FTB: Direct splice or standard SC/UPC or SC/APC connector pre-connected to every housing unit 2. UTP cables – Minimum Cat.6A 3. Fibre optic / UTP connector and its accessories 4. Fibre optic / UTP wall socket completes with accessories 5. PVC / Metal trunking for fibre optic / UTP cables. 6. Laying up cables between router, controller, switches, and AP locations. 7. Route cables through conduit, ducts, or trunking as per site requirements. 8. Terminate and test all cable connections with appropriate 				

<p>labelling</p> <p>9. Civil Work which covers end to end including but not limited to submission, HSE protocol, LA/ LC guideline compliance (Where applicable):</p> <p>9.1 HDD 2 Way HDPE Duct PN10</p> <p>9.2 Open Cut & Duct (Min 2-way)</p> <p>9.3 Supply, delivery and install iron pole</p> <p>9.4 Supply, delivery and install concrete pole</p> <p>9.5 Supply, delivery and install manhole</p> <p>9.6 Perform UDM Works.</p> <p>Please specify any other additional items required.</p>				
<p>IV) Relocation of AP and related accessories/ equipment</p> <p>1. Dismantling and re-installation of existing AP and its related accessories/ equipment.</p> <p>Please specify any other additional items required.</p>				
<p>V) Replacement of existing cabling</p> <p>1. Dismantle existing cable and install new network cable material (where applicable):</p> <p>2. Fibre optic (where applicable)</p> <p>2.1 Single mode and multimode type (where appropriate)</p> <p>2.2 Internal wiring for PON/ FTTH Network:</p> <p>2.2.1 Minimum of 2 cores for each premises</p> <p>2.2.2 Vertical Cabling: Cable runs vertically inside riser to every floor for multi dwelling unit with minimum of 2 cores for each premises with buffer/extra cores for maintenance purposes and terminated at FTB at</p>				

<p>each floor.</p> <p>2.2.3 Horizontal Cabling: minimum of 2 cores for each premises terminated at Fiber Wall Socket (FWS).</p> <p>2.2.4 Main FTB at Telecommunication Room (TR) or agreed space by Building Management (BM)</p> <p>2.2.5 FTB: Direct splice or standard SC/UPC or SC/APC connector pre-connected to every housing unit</p> <ol style="list-style-type: none"> 3. UTP cables – Minimum Cat.6A 4. Fibre optic / UTP connector and its accessories 5. Fibre optic / UTP wall socket completes with accessories 6. PVC / Metal trunking for fibre optic / UTP cables 7. Laying up cables between router, controller, switches, and AP locations 8. Route cables through conduit, ducts, or trunking as per site requirements 9. Terminate and test all cable connections with appropriate labelling <p>Please specify any other additional items required.</p>				
--	--	--	--	--

(the remainder of this page is intentionally left blank)

DESCRIPTION	UNIT	QUANTITY	UNIT PRICE (RM)	TOTAL PRICE (RM)
C. TESTING & COMMISSIONING				
<ol style="list-style-type: none"> 1. AP configuration <ol style="list-style-type: none"> 1.1 Configure APs with designated SSIDs, WLANs, IP addresses, and security protocol 1.2 Optimize channel allocation and transmission power for maximum efficiency 2. Switch, controller and router configuration 3. OLT, ONU configuration 4. Server & firewall configuration 5. Equipment labelling for asset inventory 6. Integration with existing Network Component 7. Testing & commissioning E2E from Main FTB to FWS. 8. User Acceptance Testing (UAT), knowledge transfer & documentation 				
D. WARRANTY & SUPPORT SERVICES				
<ol style="list-style-type: none"> 1. Warranty for three (3) years (all equipment) 2. Periodic maintenance schedule (minimum of twice a year) 3. Immediate replacement of faulty equipment within warranty period 4. Second-level support within warranty period for equipment and hardware 5. Provide training (where applicable) 				

(the remainder of this page is intentionally left blank)

3. In addition, the Interested Licensee shall submit the following table as a summary of the financial details:

SECTION B: SUMMARY OF THE PROPOSED COST FOR CLUSTER NO. #

Cluster: _____

NO.	SITE ID	LOCATION	STATE	PRELIMINARY WORKS (RM)	EQUIPMENT AND MATERIALS (RM)	TESTING AND COMMISSIONING (RM)	WARRANTY AND SUPPORT SERVICES (RM)	SST 8% (RM)	TOTAL (RM)
				A	B	C	D	E	A+B+C+D+E
1									
2									
SUB TOTAL (RM)									
GRAND TOTAL (RM)									

Signed for and on behalf of

.....

by [to be signed by the Chief Executive Officer or a person who holds an equivalent designation in the Interested Licensee]

Important note:

- 1) All pages of the Financial Details of the draft universal service plan shall be duly initialled and affixed with the company rubber stamp of the Interested Licensee.
- 2) The Interested Licensee **shall submit a detailed BOQ in Excel form** as proposed in the Technical Details, to be itemised explicitly and clearly for each cluster.

(the remainder of this page is intentionally left blank)

APPENDIX 5 – LICENSEE’S INFORMATION

1. A certified true copy of NFP(I) licence.
2. A certified true copy of the latest corporate information issued by the Companies Commission of Malaysia, namely SSM e-info, which includes, but is not limited to the following information:
 - (a) Company name and company registration number;
 - (b) Date of incorporation;
 - (c) Registered and business address;
 - (d) Total issued capital (RM);
 - (e) Directors and shareholders; and
 - (f) Summary of financial information.
3. A certified true copy of a valid CIDB certificate registered under the name of the Interested Licensee.
4. Identity of collaboration partner (third party, if applicable)
5. A certified true copy of the bank statement for the past three (3) consecutive months.
6. A certified true copy of audited accounts for the past three (3) consecutive financial years.
7. A brief write-up of the Interested Licensee’s track record in handling previous USP project(s) or similar project(s) (please specify the projects, scope of work and delivery timelines, if relevant) as shown in the table below:

No.	Project	Role played	Scope of work	Delivery timeline	Project Cost (RM)
1.		<i>e.g: DUSP / subcontractor</i>			

(the remainder of this page is intentionally left blank)

APPENDIX 6 – CLAIM SCHEDULE

All claims shall be made pursuant to the USP Regulations and shall be based on the relevant percentage of progress and the fulfilment of the conditions stipulated below:

Claim schedule

Milestone No.	Claim (%)	Description	Conditions
Capital Expenditure (“CAPEX”)			
1.	10	Advance claim	Submission of a written claim(s) shall be in the form and format specified by the Commission, and shall be made upon: a) Receipt of DUSP’s acceptance of the Notification of Approval; and b) Acceptance of the Performance Bond by the Commission.
2.	70	First Claim	Submission of a written claim(s) shall be in the form and format specified by the Commission and shall be made upon the complete installation, commissioning and integration of the network facilities being declared RFS, which shall be signified through the submission of the Declaration upon completion of the work at the location respectively.
3.	10	Second Claim	Submission of a written claim(s) shall be in the form and format specified by the Commission and shall be made 12 months AFTER Milestone No. 2.
4.	10	Final Claim	Submission of a written claim(s) shall be in the form and format specified by the Commission and shall be made 24 months AFTER Milestone No. 3. The DUSP shall, at its own cost, provide supporting documentation verifying that the required support services have been delivered for a continuous period of three (3) years, in full compliance with the specified support service requirements.
Total	100		

Note:

The Commission reserves the right to verify the written claim(s) for each location in the USTs specified in **Appendix 2** of this Invitation, submitted by the DUSP pursuant to the USP Regulations, prior to making any payments, and the verification made by the Commission shall be final.