



SURUHANJAYA KOMUNIKASI DAN MULTIMEDIA MALAYSIA
(MALAYSIAN COMMUNICATIONS AND MULTIMEDIA COMMISSION)

INVITATION TO REGISTER INTEREST

AS

UNIVERSAL SERVICE PROVIDER

Ref : MCMC/RDD/PDD(1)/T3_Extn(P1)/TCA/03/14(01)

Date: 17 March 2014

Invitation to Register Interest as Universal Service Provider
MCMC/RDD/PDD(1)/T3_Extn(P1)/TCA/03/14(01)

CONTENTS

SECTION I INTRODUCTION

| | | |
|---|-----------------|---|
| 1 | BACKGROUND..... | 6 |
|---|-----------------|---|

SECTION II INVITATION TO REGISTER INTEREST

| | | |
|----|--|----|
| 2 | GENERAL DESCRIPTION OF THE FACILITIES AND SERVICES TO BE PROVIDED . | 7 |
| 3 | RAN SHARING TECHNOLOGY INTRODUCTION..... | 8 |
| 4 | RAN SHARING SCOPE OF WORK PART 2..... | 8 |
| 5 | STANDARD ACCESS OBLIGATIONS FOR FACILITIES AND SERVICES | 9 |
| 6 | INTEROPERABILITY AND INTERCONNECTION FOR THE OVERALL NETWORK... | 10 |
| 7 | SPECTRUM FREQUENCY AND AA PROCEDURE..... | 11 |
| 8 | TESTING PROCEDURE | 11 |
| 9 | GREEN TECHNOLOGY..... | 12 |
| 10 | ASSIGNMENT OF LOCAL CONTRACTOR | 12 |
| 11 | REGISTRATION OF INTEREST REQUIREMENTS..... | 13 |
| 12 | SUBMISSION OF DRAFT UNIVERSAL SERVICE PLAN..... | 15 |
| 13 | SCOPE OF THE UNIVERSAL SERVICE PLAN | 17 |
| 14 | CLOSING DATE..... | 22 |
| 15 | MATTERS FOR CONSIDERATION FOR APPROVING DRAFT OF UNIVERSAL SERVICE PLAN | 22 |

SECTION III PAYMENT FROM THE USP FUND

| | | |
|----|--|----|
| 16 | CLAIM FOR PAYMENT..... | 23 |
| 17 | ADVANCE PAYMENT AND QUARTERLY PAYMENT(S) | 23 |

SECTION IV GENERAL TERMS AND CONDITION

| | | |
|----|--|----|
| 18 | IMPLEMENTATION OF APPROVED UNIVERSAL SERVICE PLAN..... | 25 |
| 19 | ADDITIONAL SERVICES | 25 |
| 20 | QUALITY OF SERVICE AND RATES | 27 |
| 21 | TECHNICAL COMPLIANCE..... | 27 |
| 22 | AUTHORITY APPROVAL..... | 28 |
| 23 | SAFETY | 28 |
| 24 | CLARIFICATION | 28 |
| 25 | DATE FOR COMPLETION..... | 29 |
| 26 | EXTENSION OF TIME | 29 |
| 27 | LIQUIDATED DAMAGES | 30 |
| 28 | WARRANTY PERIOD | 30 |
| 29 | PERFORMANCE BOND | 30 |
| 30 | EFFECT OF FORCE MAJEURE | 31 |
| 31 | QUALITY OF MATERIALS AND EQUIPMENTS | 31 |

| | | |
|----|---|----|
| 32 | OMISSIONS OR ERRORS..... | 31 |
| 33 | CONDITION OF EQUIPMENTS | 32 |
| 34 | SOURCE OF SUPPLY | 32 |
| 35 | INSPECTION AND AUDIT | 32 |
| 36 | MONITORING AND REPORTING REQUIREMENT..... | 32 |
| 37 | DECLARATION..... | 33 |
| 38 | INTERPRETATION | 33 |
| 39 | ENQUIRIES..... | 33 |

**SECTION V
SPECIAL TERMS & CONDITIONS – TWO PROVIDERS FOR ONE CLUSTER**

| | | |
|----|--|----|
| 40 | GENERAL..... | 34 |
| 41 | CONDITIONS RELEVANT TO SCOPE OF WORK IN PART 1 | 34 |
| 42 | CONDITIONS RELEVANT TO SCOPE OF WORK IN PART 2 | 35 |

**SECTION VI
NATURAL DISASTERS**

| | | |
|----|--------------------------------|----|
| 43 | CONTINUATION OF SERVICES | 36 |
|----|--------------------------------|----|

APPENDICES

| | | |
|------------|---|---|
| Appendix 1 | - | List of Universal Service Targets |
| Appendix 2 | - | Scope of Work |
| Appendix 3 | - | Registration of Interest Form |
| Appendix 4 | - | Summary of Licensee Information |
| Appendix 5 | - | Template for Summary of Technical Proposal |
| Appendix 6 | - | Template for Summary of Financial Proposal |
| Appendix 7 | - | Template for Details of Financial Proposal |
| Appendix 8 | - | Template for Maintenance and Operation Support Plan |
| Appendix 9 | - | Technical Specifications |

LIST OF GLOSSARIES

| | | |
|--------|---|--|
| AA | - | Apparatus Assignment |
| AC | - | Alternating Current |
| AFS | - | Antenna Feeder System |
| BTS | - | Base Transceiver Station |
| C&S | - | Civil And Structure |
| c/w | - | Complete With |
| CD | - | Compact Disk |
| Cu | - | Copper |
| Dia | - | Diameter |
| ID | - | Identification |
| kVA | - | Kilo Volt Amps |
| LAT | - | Latitude |
| LED | - | Light Emitting Diode |
| LOA | - | Letter Of Award |
| LONG | - | Longitude |
| LOS | - | Line Of Sight |
| M&E | - | Mechanical And Electrical |
| MCMC | - | Malaysian Communications And Multimedia Commission |
| MOCN | - | Multiple Operator Core Network |
| MORAN | - | Multiple Operator Radio Access Network |
| MSC | - | Mobile Switch Centre |
| NFP(I) | - | Network Facilities Provider Individual |
| No | - | Number |
| NOC | - | Network Operation Centre |
| Nos | - | Not Otherwise Specified |
| NSP(I) | - | Network Service Provider Individual |
| OMC | - | Operation And Maintenance Centre |
| PDH | - | Plesiochronous Digital Hierarchy |
| PE | - | Professional Engineer |
| PLMN | - | Public Land Mobile Network |
| PVC | - | Polyvinyl Chloride |
| QoS | - | Quality Of Service |
| RAN | - | Radio Access Network |
| Ref | - | Reference |
| RF | - | Radio Frequency |
| RNC | - | Radio Network Controller |

| | |
|-------|--------------------------------|
| SESB | - Sabah Electricity Sdn Bhd |
| SESCO | - Syarikat Sesco Berhad |
| SMS | - Short Message Service |
| SRSP | - Standard Radio System Plan |
| SWG | - Standard Wire Gauge |
| T3E | - Time 3 Extension |
| TNB | - Tenaga Nasional Berhad |
| USP | - Universal Service Provision |
| UST | - Universal Service Target |
| VSAT | - Very Small Aperture Terminal |

(the rest of this page has been intentionally left blank)

SECTION I INTRODUCTION

1 BACKGROUND

- 1.1 The Universal Service Provision (USP) project is an ongoing effort to promote the widespread availability and usage of network services and applications services by encouraging the installation of tower and infrastructure and the installation of equipment and electronics and applications services in underserved areas and/or for underserved groups within the community (“universal service targets”).
- 1.2 Suruhanjaya Komunikasi dan Multimedia Malaysia (MCMC) had, pursuant to subregulation 4(1) of the Communications and Multimedia (Universal Service Provision) Regulations 2002 [*P.U.(A) 419/2002*] (as amended by *P.U (A) 258/2008*) (“the Regulations”), issued and published notifications specifying universal service targets under Notification Ref. No: NT/USP/1/04, Ref. No: NT/USP/08/01, NT/USP/2/02 and NT/USP/01/11 (“the Notifications”). The list of the universal service targets relevant to this Invitation and some relevant information in relation thereto are contained in Appendix 1 of this Invitation.
- 1.3 This Invitation is made pursuant to subregulations 3(1)(b), 5(1) and 19(2) of the Regulations (“this Invitation”) to invite Interested Licensees to register their interest to be the universal service provider for the provision of Time 3 Extension (T3E) for Public Cellular Services nationwide.
- 1.4 Under this Invitation, the provision of radio communications and transmitters links shall be operated by using Radio Access Network (RAN) Sharing network as detailed out in this Invitation and Appendix 2 of this invitation.

(the rest of this page has been intentionally left blank)

**SECTION II
INVITATION TO REGISTER INTEREST**

2 GENERAL DESCRIPTION OF THE FACILITIES AND SERVICES TO BE PROVIDED

- 2.1 This Invitation is made with respect to the universal service objectives set out in subregulation 3(1)(a) of the Regulations. The facilities and services to be installed and provided under this Invitation are the installation of tower and infrastructure (Part 1) and the installation of equipment and electronics related to public cellular service under the concept of Radio Access Network (RAN) Sharing Technology (Part 2).
- 2.2 The scope of work pursuant to this Invitation is divided into PART 1 and PART 2 as set out in Appendix 2 of this Invitation.
- 2.3 The details of the specifications and technical requirements for the facilities under PART 1 and PART 2 in Appendix 2 are stipulated in Appendix 9 of this Invitation.
- 2.4 The installation of equipment and electronics under PART 2 to be provided in Appendix 2 shall meet the following requirements:

(a) Service requirements:

- (i) the provision of public cellular service comprising of 2G and 3G services with the capability of providing voice and data services to meet the requirements of the general public;
- (ii) the provision of public cellular service shall be accessible in all of the universal service targets including the rural and remote parts of the universal service targets;
- (iii) coverage of the public cellular services must include at the minimum of coverage objectives within the universal service targets as stipulated in Appendix 1;
- (iv) the quality of public cellular service including the signal level and signal quality should be consistent with the Variation to Commission Determination on Mandatory Standards for Quality of Service (Public Cellular Service), [Determination No. 2 of 2002], Determination No.1 of 2013 or such other standards for quality of service on public cellular service as may be required by MCMC; and
- (v) the network services shall enable public cellular service, under normal operating conditions, to be made available 24 hours per day, 7 days a week and shall enable interconnection with networks of other licensed service providers;

(b) Continuity of service requirement during natural disaster :

- (i) the provision of public cellular service shall be made available 24 hours per day, 7 days a week at the area of coverage objectives within the universal service targets included to the area that is prone to natural disasters such as flood.

(c) Technical requirement:

- (i) the specifications in respect of cabins, power supply and etc. as stipulated in Appendix 9 of this Invitation.

3 RAN SHARING TECHNOLOGY INTRODUCTION

- 3.1 Radio Access Network (RAN) Sharing Technology provides the most suitable, cost-effective solution with reduced operating expenditure.
- 3.2 Through shared RAN, Public Cellular Network Providers can save the initial network construction investment, accelerate network construction speed, increase the initial coverage and attract more users in the new service provided areas.
- 3.3 Besides sharing the infrastructure; RAN Sharing can also support different services and applications from different Public Cellular Network Providers to maintain good competitiveness with adopting different RAN sharing solutions by considering the frequency resources, network resources and business strategy, and supporting multiple Public Cellular Network Providers sharing network resources simultaneously by flexible software and hardware configurations.
- 3.4 The RAN Sharing technology will also facilitate Public Cellular Network Providers to satisfy their obligation in providing basic communication services to the underserved community.

4 RAN SHARING SCOPE OF WORK PART 2

- 4.1 The RAN Sharing solution shall be based on the following basic principles:
 - a) The RAN sharing equipments shall have the capability to provide 2G and 3G services. It shall be configured so that it can serve a minimum of 1000 subscribers per site for 2G networks and a minimum of 1 number of carriers per sector for 3G networks.
 - b) RAN sharing equipment shall be able to cater the usage of minimum 3 Public Cellular Network Providers comprising of 2G and 3G services with the capability of providing voice and data services at broadband speed and 4G-LTE ready.
 - c) The Interested Licensee shall be able to understand the overall RAN Sharing system by having either the Multi – Operator Radio Access Network (MORAN) or Multi – Operator Core Network (MOCN) for 2G or 3G services with supporting multiple PLMN broadcast.

- d) Interested Licensees are encouraged to use microwave and/or leased line for transmission backhaul solution depending on the surrounding of line of sights (LOS) and availability of wired infrastructure to reduce the implementation cost.
- e) In the event of the unavailability of line of sight (LOS) and wired infrastructure, the Interested Licensees may opt to use very small aperture terminal (VSAT) as a transmission backhaul solution depending on the surrounding landscape terrain.
- f) Interested Licensees shall ensure that the transmission backhaul should be capable to cater the usage of minimum 3 Public Cellular Network Providers in supporting 2G and 3G services.
- g) In the RAN Sharing system, billing system is independently controlled by each Public Cellular Network Provider.
- h) Any component related to 2G and 3G services are required to be included among others the BSC, RNC, the associated BTS, links, NOC and associated ancillaries facilities with full connectivity to the MSC of Public Cellular Network Providers.

5 STANDARD ACCESS OBLIGATIONS FOR FACILITIES AND SERVICES

- 5.1 The Designated Universal Service Provider for Part 2 shall make a written access request to network facilities provider and network service provider to access to their network facilities or network services to achieve the interoperability and interconnection for the RAN sharing services according to Chapter 3 of Part VI of the CMA.
- 5.2 Notwithstanding the above, the Designated Universal Service Provider for Part 2 are encouraged to develop a comprehensive commercial business model where the basis of commercial business model should be the operating expenditure involved for this project only. This commercial model may include the following items, but not limited to:
 - a) Land rental;
 - b) Utility rental and other administration;
 - c) Transmission backhaul lease;
 - d) Preventive and corrective maintenance services;
 - e) Managed services for the complete project;
 - f) AA fee for transmission backhaul and radios;
 - g) Data centre lease services for hosting BSC and RNC (if applicable); and

h) Other necessary operating costs which are related to this project.

5.3 The above commercial business model may be the basis for Interested Licensees to determine the monthly operations and maintenance charges to the Public Cellular Network Providers.

6 INTEROPERABILITY AND INTERCONNECTION FOR THE OVERALL NETWORK

6.1 The Interested licensee should propose the interoperability and interconnection for the overall network. The mode of transmission from a Time 3 Extension location based on line of site, terrain and availability of infrastructure may depend and the options that most likely available will be VSAT, Microwave or Fiber.

6.2 The technology proposed should be flexible with different types of backhaul systems and should not be restricted to one. Interested Licensees must take care of the quality of service (QoS) for end-to-end system from BTS and NodeB to BSC and RNC. The BSC and RNC together with OMC should be at strategic location so that the interconnection with Public Cellular Network Providers can be easy and smooth. Public Cellular Network Providers and the Designated Universal Service Provider PART 2 should meet at common location for interconnect of the Time 3 Extension sites and BSC and RNC to Public Cellular Network Providers Core Network.

6.3 The proposal for interconnect and interoperability should include:

- a) Site Location for BSC and RNC;
- b) The architecture of connectivity from different transmission modes to the MSC, BSC and RNC;
- c) Proposed design of interconnectivity from RAN Sharing BSC and RNC to MSC Public Cellular Network Provider's Core Network;
- d) Bandwidth Dimensioning from BTS and Node-B to the BSC and RNC;
- e) Proposed Network Block Diagram for RAN Sharing System;
- f) Detailed Network Topology from Time 3 Extension BTS and e-Node B to BSC and RNC and from BSC and RNC to Public Cellular Network Providers Core Network;
- g) Proposed Network Equipment; and
- h) Detailed Implementation timeline.

7 SPECTRUM FREQUENCY AND AA PROCEDURE

- 7.1 The Designated Universal Service Provider for Part 2 is allowed to use the spectrum for the provision of the Work only after the issuance of the requisite Apparatus Assignment (AA) (s) in accordance with the Communications and Multimedia Act 1998 and the Communications and Multimedia (Spectrum) Regulations 2000.
- 7.2 The use of spectrum band for 2G and 3G services will be determined by MCMC or via collaboration with Public Cellular Network Providers and subject to requirements stipulated in the relevant Standard Radio System Plan or guideline issued by MCMC including any revision thereafter.

8 TESTING PROCEDURE

- 8.1 The Designated Universal Service Provider for PART 2 should propose the complete test procedures to be conducted during integration of RAN Sharing infrastructure with the Public Cellular Network Providers.
- 8.2 For the smooth integration of RAN Sharing network to the Public Cellular Network Providers, the Designated Universal Service Provider for PART 2 may propose, but not limited to, the following testing procedures:
 - a) Connectivity Test;
 - b) Functionality Test;
 - c) Network Test; and
 - d) Service Test.
- 8.3 The above test will be conducted by Designated Universal Service Provider PART 2 with individual Public Cellular Network Provider and subsequently with all the Public Cellular Network Providers.
- 8.4 All related cost for the testing conducted as stated in Item 8.2 shall be borne by the Designated Universal Service Provider for PART 2.
- 8.5 During the testing and any other procedure for the integration, the Designated Universal Service Provider for PART 2 must ensure to undertake certain precaution methods to avoid severe impact that affecting the subscribers of Public Cellular Network Providers.
- 8.6 All the Public Cellular Network Providers for each site must have given their prior written consent to the Designated Universal Service Provider for Part 2 based on the test conducted above before operation commencing the RAN sharing operation.

9 GREEN TECHNOLOGY

9.1 The Interested Licensees are encourage to include the use of the green technology pursuant to this Invitation to achieve the following objectives in line with the National Green Technology Policy Objective:

- a) To reduce the energy usage rate and increase economic growth;
- b) To facilitate the growth of the green technology industry and enhance its contribution to the national economy;
- c) To increase national capability and capacity for innovation in green technology development and enhance Malaysia's competitiveness in green technology in the global arena; and
- d) To ensure sustainable development and conserve the environment for future generations.

9.2 Notwithstanding the above, the proposed solution by the Interested Licensees should be proven to be feasible in provisioning the public cellular shall include but not limited to the following areas:

- a) Techniques to enable energy efficiency such as to use high efficiency devices in electronic equipments;
- b) Green energy and green facilities such as the optimization of hybrid power supply especially for the site without TNB/ SESCO/SESB supply; and
- c) Providing total flooding fire suppression with automatic detection, control and eco-friendly to reduce the greenhouse gas emissions e.g. CO₂.

10 ASSIGNMENT OF LOCAL CONTRACTOR

10.1 The Designated Universal Service Provider is encouraged to invite qualified local contractor(s) to carry out the work. This is in line with the Malaysia's Government Procurement Regime which prime objective is to obtain value for money through acquisition works, supplies and services.

10.2 In addition, the assignment of local contractor is to stimulate the growth of local industries through the maximum utilization of local materials and resources as well as to encourage and support the involvement of Bumiputera entrepreneurs.

11 REGISTRATION OF INTEREST REQUIREMENTS

- 11.1 The Interested Licensees who wish to register their interest to become the Universal Service Provider pursuant to this Invitation must hold the requisite licences that enable them to carry out the scope of work under this Invitation within the scope of their licences and meet the requirements as specified below:
- (a) The Interested Licensees are required to hold:
- (i) A Network Facilities Provider Individual [NFP(I)] licence for the scope of work in PART 1, under the Communications and Multimedia Act 1998, and is authorized to own or provide **ALL** of the following network facilities under Regulation 19 of the Communications and Multimedia (Licensing) Regulations 2000, as amended:
 - i. Towers, poles, ducts and pits used in conjunction with other network facilities; and
 - ii. Fixed links and cables.
 - (ii) A Network Service Provider Individual [NSP(I)] and A Network Facilities Provider Individual [NFP(I)] licence for the scope of work in PART 2 under the Communications and Multimedia Act 1998.
 - i. The licensed area specified under both the [NFP(I)] licence and the NSP(I) licence of the licenses **shall be within “Malaysia”**; and
 - ii. The Interested Licensee should not be limited to provide the last mile services only under the Special Licence Conditions in its [NFP (I)] licence.
- (b) Notwithstanding the above, the Interested Licensees for Part 1 are required to have at least one **(1) year** experience with good track records in the telecommunication tower implementation and/or engage in a collaboration or Memorandum of Understanding (MOU) with other qualified contractors.
- 11.2 Notwithstanding the above, to be eligible to register an interest, the Interested Licensees shall not have any outstanding amount due to MCMC including but not limited to the following:
- (a) any license fees due to MCMC under the CMA;
 - (b) Universal Service Provision Fund (USP Fund) Contribution; and
 - (c) AA Fees.
- 11.3 MCMC shall have the right to forfeit the registration or to disqualify the submission of the Interested Licensees who have failed to comply with the requirement stated in Item 11.2.
- 11.4 As mentioned in Item 2.2 above, the facilities and services pursuant to this Invitation as set out in Appendix 2. The Interested Licensees may register their interest to become the Universal Service Provider for:

- a) PART 1 – Installation of Tower and Infrastructure in Appendix 2 ; or
 - b) PART 2 – Installation of Equipment and Electronics in Appendix 2.
- 11.5 For the purpose of this Invitation, MCMC has grouped the universal service targets into 32 clusters as stated in Appendix 1 of this Invitation The Interested Licensees may register interest for the scope of work in the manner as stipulated in Item 11.4 for each of the cluster(s) of their choice.
- 11.6 The Interested Licensees may register their interest to become the Universal Service Provider for:
- (a) any one cluster; or
 - (b) two or more clusters; or
 - (c) all clusters
- of the universal service targets listed in Appendix 1.
- 11.7 For the avoidance of doubt, MCMC will not accept registration of interest for **part of a cluster** or any combination of clusters which includes **a part of a cluster**. Similarly, in relation to the scope of work, MCMC will only accept registration of interest for **the entire of PART 1, the entire of PART 2 or both PARTs**.
- 11.8 The Interested Licensees shall register their interest with MCMC by completing the form enclosed in Appendix 3 of this Invitation. Please note that the deadline for submitting the duly completed registration of interest form in relation to the universal service targets is stated in Item 14.1 of this Invitation.
- 11.9 The Interested Licensees are hereby reminded that pursuant to subregulations 6(1) and 7(2) of the Regulations, those who have registered their interest will be legally obliged to submit their draft universal service plan(s) for their scope of work and cluster(s) of the universal service targets and such further information requested by MCMC. The scope of the draft universal service plan and the manner of submission are specified in Item 12 and 13 of this Invitation.
- 11.10 The Interested Licensee who fails to comply with subregulations 6(1) or 7(2) commits an offence under Regulation 39 of the Regulations and shall on conviction be liable to a maximum fine of RM300,000.00 or imprisonment for a maximum term of 3 years or both.
- 11.11 All Interested Licensees shall register their interest with MCMC by submitting the duly completed form as enclosed in Appendix 3 of this Invitation to the following address:

**Rural Development Division
Suruhanjaya Komunikasi dan Multimedia Malaysia
Ground Floor, Prima Avenue 1
Block 3507, Jalan Teknokrat 5
63000 Cyberjaya, Selangor
Email : tender@cmc.gov.my
(Attn: Secretary of the Tender Committee)**

12 SUBMISSION OF DRAFT UNIVERSAL SERVICE PLAN

- 12.1 The Interested Licensees should submit the draft universal service plan consists of PART 1 or PART 2 or both parts for each cluster as per outlined in Item 12.6 of this Invitation.
- 12.2 In preparing the draft universal service plan(s), the Interested Licensees shall include the appropriate information relating to the technical and financial proposal for each of the universal service target as per outlined in Item 13.2 of this Invitation.
- 12.3 For the avoidance of doubt, MCMC will not accept submission of draft universal service plan for **part of a cluster** or any combination of **clusters which includes a part of a cluster**. Similarly, in relation to the scope of work, MCMC will only accept submission of draft universal service plan for the entire of PART 1, or PART 2 or both Parts at its entirety.
- 12.4 Please take note that the deadline for the submission of the draft universal service plan(s) for the universal service targets are stated in Item 14.3 of this Invitation.
- 12.5 The draft universal service plan shall be divided into two separate documents as follows:
- (a) Technical Proposal as per Item 13.2 (a) of this Invitation; and
 - (b) Financial Proposal as per Item 13.2 (b) of this Invitation.
- 12.6 Each technical and financial proposal mentioned above shall be submitted in DUPLICATE and the hard copies of the draft universal service plans shall be marked as follows:
- (a) one copy to be marked "ORIGINAL TECHNICAL PROPOSAL";
 - (b) two copies to be marked "COPY TECHNICAL PROPOSAL";
 - (c) one copy to be marked "ORIGINAL FINANCIAL PROPOSAL";
 - (d) two copies to be marked "COPY FINANCIAL PROPOSAL";
 - (e) all pages of the Financial Proposal of the draft universal service plan shall be duly initialled and affixed with a rubber stamp of the Licensee;
 - (f) all pages of the Technical Proposal of the draft universal service plan shall NOT bear the Licensee's name, logo and stamp; and
 - (g) for ease of reference, the pages for the draft universal service plan shall be numbered in the following format: "1 of (total pages of draft universal service plan), 2 of ..., 3 of ..." and accordingly thereafter.

- 12.7 The submission shall be accompanied by a One Off Document which consist of :
- (a) licensee's information and other supporting documents as detailed out in Appendix 4 ;
 - (b) company profile;
 - (c) a complete set of softcopy of the submission in CD Format; and
 - (d) Letter of Collaboration or MOU between the Licensee and contractor in collaborative activities (if applicable).
- 12.8 The submission of draft universal service plans shall be enclosed in a separate sealed envelope and superscribed as follows:
- (e) Technical Proposal: **(Cluster No. #/Scope of Work: PART 1 or PART 2 or both Parts)**;
 - (f) Financial Proposal: **(Cluster No. # Scope of Work: PART 1 or PART 2 or both Parts)**; and
 - (g) Licensee's Information (One-Off basis as per Item 12.7).
- 12.9 All submissions of the draft universal service plan(s) shall be prepared in the prescribed format and properly put in box(es) marked with:
- (a) MCMC's Invitation reference **(INVITATION REF. NO.: MCMC/RDD/PDD(1)/T3_Extn(P1)/TCA/03/14(01)** at the top left hand corner of the box(es);
 - (b) the description **"SUBMISSION OF DRAFT UNIVERSAL SERVICE PLAN - (Cluster No. #)"** at the central position of the box(es); and
 - (c) **"SUBMITTED BY: (Name of Licensee)"** at the central bottom position of the box(es).
- 12.10 In the event of discrepancies, the document marked **"ORIGINAL"** shall prevail.
- 12.11 All documents mentioned above, including any appendices annexed thereto, shall be taken as mutually explanatory of each other.
- 12.12 The Interested Licensees shall be deemed to have examined and understood all information and documents comprised in this Invitation.
- 12.13 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 Licensees.
- 12.14 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.

- 12.15 All documents which form part of the draft universal service plan shall be properly and securely bound. The draft universal service plan(s) shall be deposited in the box designated by MCMC for the receipt of the documents located at:

**Rural Development Division
Suruhanjaya Komunikasi dan Multimedia Malaysia
Ground Floor, Prima Avenue 1
Block 3507, Jalan Teknokrat 5
63000 Cyberjaya, Selangor
Email : tender@cmc.gov.my
(Attn: Secretary of the Tender Committee)**

- 12.16 Handbooks and any other literature, if any, shall be bound in separate covers.

13 SCOPE OF THE UNIVERSAL SERVICE PLAN

- 13.1 The draft of the universal service plan to be submitted by the Interested Licensees for both scope of work, shall contain the following information (as may be applicable):

- (a) the coverage objectives (name of villages, settlement areas, plantations, highways, population etc) within the universal service target to which the universal service plan applies to;
- (b) the exact location of the site within the universal service target, to be submitted in geographical coordinate in decimal format (Latitude/Longitude WGS84) with site name, address and photo; and
- (c) a detailed description of the infrastructure and/or equipments to be installed at the site as follows:
 - (i) a detailed description of site infrastructure and ancillaries including access road to be provided at the site (applicable to PART 1 scope);
 - (ii) the source of AC power supply for each site; i.e. TNB, SESB, SESCO, generator set etc. (applicable to PART 2 scope);
 - (iii) a detailed description of cellular and other related equipments to be installed at the site, together with Malaysian Standard Type-Approval details (applicable to PART 2 scope);
 - (iv) a detailed of network facilities and network services with contingency plan must be established to facilitate for emergency preparedness in the event of a regional, national or international disaster i.e. flood;
 - (v) detailed information and location of the existing network infrastructure, facilities and/or services owned or provided by the Interested Licensee within the universal service target and its adjacent areas; and

- (vi) a detailed site design and network configuration to be deployed within the universal service target. The Interested Licensee shall have regard to maximizing the use of existing network infrastructure and facilities in a cost-effective manner; under such circumstances, this should reflect the incremental capital cost.
- (d) a detailed description of the infrastructure and/or equipments to be installed at the site as follows;
 - (e) the project implementation timeline for the provision of the public cellular services indicating site planning, design, acquisition, approvals, procurement of materials, installation, testing and commissioning;
 - (f) the capital cost for the installation of network facilities or the provision of network services within the universal service targets. Cost information must include all breakdown, complete computation and nett figure for the total costs without any form of conditional discounts or options. If discounts are indicated, MCMC will disregard the discounts in considering the total cost proposed by the Interested Licensee. If any options are provided, MCMC reserves the right to disqualify the submission of the draft universal service plan;
 - (g) the arrangement of the sharing of network facilities and network services with other licensees;
 - (h) the details for maintenance and operational support plan to ensure that the facilities and services are continuously available for use in the universal service targets;
 - (i) information on project management team of the Interested Licensee for the universal service target which include names, designation, address, contact numbers etc;
 - (j) Information on the Interested Licensee's and the collaboration partner's (if applicable) track record and relevant experience related to public cellular projects for the past 3 years. The Interested Licensee should also:
 - (i) include information on its current projects;
 - (ii) distinguish their experiences as a contractor and as a network facilities provider;
 - (iii) specify the number of towers owned or provided by the Interested Licensee in the state where the universal service target is located; and
 - (iv) Letter of Collaboration or MOU between the Licensee and contractor in collaborative activities (if applicable).

13.2 The format of the draft universal service plan in relation to both scope of work in PART 1 and PART 2 shall be as follows :

(a) Technical Proposal

| SECTION | DESCRIPTION |
|------------------|--|
| SECTION A | EXECUTIVE SUMMARY OF (CLUSTER #) |
| A | Executive Summary - Overview of the technical proposal |
| SECTION B | TECHNICAL PROPOSAL OF (CLUSTER #) |
| B1 | Summary of Technical Proposal <ul style="list-style-type: none"> • Refer to Appendix 5 for summary proposal template |
| B2 | Details of Technical Proposal <ol style="list-style-type: none"> 1. Site A (Coverage Objective) <ul style="list-style-type: none"> • Details of Technical Proposal (as may be applicable) <ul style="list-style-type: none"> ○ Coverage objectives ○ Site location (Long/Lat) ○ Site ID, name and address ○ Site category (collector or spur) ○ Tower type & height ○ Source of AC power supply ○ Site footprint & cabin size ○ Information on existing facilities and/or services ○ Equipment type, configuration & capacity ○ Details of supplier for materials and equipments ○ Implementation timeline ○ Equipment to be provided and installed as contingency plan for the natural disasters event such as flooding and etc ○ 2. Site B (Coverage Objective) <ul style="list-style-type: none"> • Details of Technical Proposal (as may be applicable) <ul style="list-style-type: none"> ○ |
| B3 | <ol style="list-style-type: none"> 1. Network Topology of Interoperability and interconnection for the overall network (VSAT, Microwave & Fiber) from BTS and Node B – BSC and RNC – Core Network (Public Cellular Network Providers) for every cluster <ul style="list-style-type: none"> ○ Bandwidth Dimensioning for each link 2. Proposed Network Block Diagram for RAN Sharing System |

| SECTION | DESCRIPTION |
|------------------|---|
| SECTION C | OTHER INFORMATION |
| | <p>Other Information</p> <ol style="list-style-type: none"> 1. Track record and relevant experience related to public cellular projects. 2. Number of towers owned or provided by the Licensee in the state where the universal service target is located. 3. Information on Project Management team. 4. Information on cooperation between licensees. 5. Detailed maintenance and operational support plan. 6. Other information deemed necessary. |

(b) Financial Proposal

| SECTION | DESCRIPTION |
|------------------|---|
| SECTION A | EXECUTIVE SUMMARY OF (CLUSTER #) |
| A | <p>Executive Summary</p> <ol style="list-style-type: none"> 1. Overview of financial proposal |
| SECTION B | FINANCIAL PROPOSAL OF (CLUSTER #) |
| B1 | Summary of Financial Proposal Refer to Appendix 6 for summary proposal template |
| B2 | <ol style="list-style-type: none"> 1. Site A (Coverage Objective) <ul style="list-style-type: none"> • Details of Financial Proposal (itemized pricing by the following components) – please refer to Appendix 7 for detail proposal template (as may be applicable) <ul style="list-style-type: none"> ○ Preliminaries ○ Tower ○ Site Infrastructure and Ancillaries ○ AC Power Supply ○ Additional Works ○ BTS Equipment ○ Equipment Shelter ○ Equipment to be provided and installed as contingency plan for the natural disasters event such as flooding and etc ○ • Details of Financial Proposal (itemized pricing) for maintenance and operation support plan for Part 2 only (as may be applicable) |

| SECTION | DESCRIPTION |
|------------------|---|
| | <ul style="list-style-type: none"> ○ Cost relevant to Part 2 scope of work and category B of Part 1 of scope of work as stipulated in Appendix 2. ○ The preventive and corrective maintenance includes operational checking and testing as stipulated in Appendix 8. <p>2. Site B (Coverage Objective)</p> <ul style="list-style-type: none"> • Details of Financial Proposal (itemized pricing by the following components) – please refer to Appendix 7 for detail proposal template <ul style="list-style-type: none"> ○ |
| B3 | Details of Financial Proposal for Interoperability and interconnection for the overall network (VSAT, Microwave & Fiber) from BTS and Node B – BSC and RNC – Core Network (Public Cellular Network Providers) |
| SECTION C | OTHER INFORMATION |
| | Other information deemed necessary |

Note: Interested Licensees are required to list out details for each USP target under the Cluster(s).

- 13.3 The site locations (Latitude & Longitude) as set out in Appendix 1 are provided as a guide only. The Interested Licensees are responsible for the identification of actual site locations when preparing their draft universal service plans and the choice of the actual sites shall reflect cost efficiency inclusive sites with flood history. Where possible, the site locations stated in Appendix 1 should be followed by the Interested Licensees.
- 13.4 The Interested Licensees shall include in their draft universal service plans detailed information on the coverage objectives as required under Item 13.1(a) whether or not the site locations as set out in Appendix 1 are followed.

(the rest of this page has been intentionally left blank)

14 CLOSING DATE

Registration of Interest

- 14.1 In relation to universal service targets listed in Appendix 1, all Interested Licensees shall register their interest with MCMC **on or before 12.00 pm, 31 March 2014.**

Submission of Draft Universal Service Plan(s)

- 14.2 All submissions of the draft universal service plan(s) shall be prepared in the manner prescribed and submitted at the place stipulated in Item 12.15.
- 14.3 All Interested Licensees who have registered their interest pursuant to the above shall submit the relevant draft universal service plan(s) **on or before 12.00 pm, 14 April 2014.**

15 MATTERS FOR CONSIDERATION FOR APPROVING DRAFT OF UNIVERSAL SERVICE PLAN

- 15.1 MCMC will consider the matters specified in Regulation 7 of the Regulations and all information included in the draft universal service plans in deciding whether or not to approve the draft universal service plans.
- 15.2 In addition to those matters, MCMC will also consider factors including but not limited to the following:
- (a) the Interested Licensee's financial capacity and capability to implement its draft universal service plan; and
 - (b) the Interested Licensee's track record and relevant experience related to public cellular projects including work performance in previous USP project, if any.

(the rest of this page has been intentionally left blank)

**SECTION III
PAYMENT FROM THE USP FUND**

16 CLAIM FOR PAYMENT

- 16.1 A universal service provider designated pursuant to this Invitation is entitled to claim its costs pursuant to subregulation 19(2) of the Regulations, more particularly the avoidable cost as specified in Table A of the Schedule in the Regulations. The Designated Service Providers are advised to refer to Part V and Table A of the Schedule in the Regulations in relation to the costing and claim for universal service provision.
- 16.2 In essence, 'avoidable cost' means the costs that a Designated Universal Service Provider would avoid if it had not been required to provide facilities and services in a universal service target and for purposes of this Invitation.
- 16.3 It is an obligation on every Designated Universal Service Provider to submit, not later than 31 March of the relevant calendar year(s), a written claim to MCMC in accordance with Regulation 20 of the Regulations for the cost of universal service provision for the previous calendar year. Interested Licensees are reminded that this obligation is applicable notwithstanding any payments that may be made by MCMC under Regulations 12 or 20A of the Regulations.
- 16.4 A Designated Universal Service Provider should submit the claims using the Claims Form that will be provided by MCMC and to be submitted together with necessary documents.
- 16.5 Payment will be made upon a duly verified claim less any payments already made under Regulations 12 or 20A of the Regulations not later than thirty (30) days from the date of the verification is completed by MCMC.

17 ADVANCE PAYMENT AND QUARTERLY PAYMENT(S)

Advance Payment

- 17.1 MCMC may, under Regulation 12 of the Regulations, consider making an advance payment to a Designated Universal Service Provider towards the capital cost of implementation of the universal service plan approved pursuant to this Invitation ("Advance Payment"). A Designated Universal Service Provider may submit its written application for Advance Payment to MCMC for its consideration.

Quarterly Payment(s)

- 17.2 MCMC may under Regulation 20A of the Regulations, consider making quarterly payments to a Designated Universal Service Provider for the capital costs of implementing the approved universal service plan ("Quarterly Payment"). A Designated Universal Service Provider may submit its written application for Quarterly Payment(s) to MCMC for its consideration.

Obligation to refund

- 17.3 In the event that a Designated Universal Service Provider receives payment under Regulation 12 and/or 20A of the Regulations of a total amount which exceeds the cost incurred for a calendar year that it is entitled to claim pursuant to this Invitation, the Designated Universal Service Provider is required under Regulation 21A of the Regulations to refund to MCMC the monies paid in excess in accordance with the notice that MCMC may issue.
- 17.4 A Designated Universal Service Provider who fails to comply with the notice issued by MCMC commits an offence under Regulation 21A (2) of the Regulations.

(the rest of this page has been intentionally left blank)

SECTION IV GENERAL TERMS & CONDITIONS

18 IMPLEMENTATION OF APPROVED UNIVERSAL SERVICE PLAN

- 18.1 The Designated Universal Service Providers are reminded that in the event that MCMC approved the draft universal service plan(s) submitted under this Invitation, the Designated Universal Service Providers will be subject to an obligation under subregulation 11(1) of the Regulations to comply with the approved universal service plan(s).
- 18.2 Change of site location
- (a) If the site locations and coverage objectives stated in Appendix 1 are found by the Designated Universal Service Providers to be unsuitable, the Designated Universal Service Providers may propose a change of the site location. The Designated Universal Service Providers shall first attempt to identify a site (within 2 kilometre radius from the site location identified in Appendix 1) which it considers suitable to meet the intended coverage objective in Appendix 1.
 - (b) If the coverage objective based on the proposed site location differs from the coverage objective in Appendix 1, the Designated Universal Service Providers are required to notify MCMC on the new coverage objective based on the proposed site location.
 - (c) The Designated Universal Service Providers must ensure that any new site location proposed is still within the same universal service target(s) as stated in Appendix 1.
- 18.3 The Designated Universal Service Providers are reminded that the selection of site locations and the corresponding coverage objectives shall be based on 2G and 3G network planning.
- 18.4 The Designated Universal Service Providers who fails to comply with subregulation 11(1) of the Regulations commits an offence under the Regulation 39 of the Regulations and shall on conviction be liable to a maximum fine of RM300,000.00 or imprisonment for a maximum term of 3 years or both.

19 ADDITIONAL SERVICES

- 19.1 As stated earlier, this Invitation is made with respect to the installation of tower and infrastructure and installation of equipment and electronics only pursuant to this Invitation is entitled to claim only such related costs.

Part 1 and Part 2

- 19.2 In the case of vandalism, the Designated Universal Service Providers for the both scope of work for PART 1 and PART 2 shall act accordingly on:
- (a) the process to investigate and verify the damage caused by vandalism and the apportionment of the cost for repair or replacement of any facilities that are vandalized; and
 - (b) the mechanism to minimize the risk of vandalism including reasonable security measures to be implemented at the affected site. The Designated Universal Service Provider for the scope of work in both PARTs may recover costs and expenses for the agreed security measures.

Part 1

- 19.3 The Designated Universal Service Providers for the scope of work in PART 1 shall be subject to an obligation to provide, at its own costs, the following services:
- (a) Responsible for facilities in Category A and Category B as stipulated in Appendix 2 and shall be valid within the warranty period; and
 - (b) The Designated Universal Service Provider is encouraged to invite qualified local sub-contractor(s) to carry out the work of PART 1 at the related site location.

Part 2

- 19.4 The Designated Universal Service Providers for the scope of work in PART 2 shall be subject to an obligation to provide the following services:
- (a) provide maintenance and operation support services to ensure that all the facilities provided at sites for both PART 1 (Category B) and PART 2 are continuously available, accessible and in good condition for use in the universal service targets upon the commencement date of PART 2.
 - (b) subject to item 19.4 (a) as above, the Designated Universal Service Providers shall include in their draft universal service plans the details on the provisioning of maintenance and operation support services including but not limited to the response times, hotline numbers, contact personnel, site and compound maintenance and all other relevant information as per Appendix 8 of the Invitation.
 - (c) notwithstanding the above, the Designated Universal Service Providers for the scope of work in PART 2 have to install and maintain their equipments for the provision of network services, cabins, power supply and all its accessories such as fire extinguisher, air conditioning, and electrical system.
 - (d) ensure the availability of public cellular services for 24 hours per day, 7 days a week that under normal operating conditions, include the following features at all times (unless otherwise required by the customers):

- (i) the ability to make and receive voice and to the networks of other licensed service providers;
- (ii) the ability to make and receive automated national and international voice;
- (iii) the ability to make calls to emergency numbers, which gives the customer access to emergency services, free of charge;
- (iv) the ability to make calls to operator for directory assistance, national and international call connection and reporting of service difficulties; and
- (v) the ability to use data services which includes SMS and internet browsing within 2G and 3G networks.
- (vi) allow the sharing of towers with other licensed service providers.

20 QUALITY OF SERVICE AND RATES

- 20.1 The Designated Universal Service Providers shall comply with the quality of service standards as provided in any mandatory standards or consumer codes registered under the Communications and Multimedia Act 1998 including but not limited to the various Commission Determinations on the Mandatory Standards for Quality of Service.
- 20.2 The Designated Universal Service Providers must ensure that the services are setup and delivered with high quality of service.
- 20.3 The Designated Universal Service Providers shall comply with the Consumer and Content Codes registered under the Communications and Multimedia Act 1998.
- 20.4 In the event, any abstraction of coverage that includes the signalling level on Quality of Service must be adhere in consistent with the Commission Determinations on the Mandatory Standards for Quality of Service (Public Cellular Service) or such other standards for quality of service on Public Cellular Service as may be required by MCMC.

21 TECHNICAL COMPLIANCE

- 21.1 The Designated Universal Service Providers shall be solely responsible for the correct design and configuration of the network facilities, equipment and services offered as per the submitted Draft Universal Service Plan. Spectrum used for the equipment shall comply with the Standard Radio System Plan (SRSP) and any other relevant standards as and when required by MCMC.
- 21.2 If subsequent modifications or changes are necessary for the network facilities, equipment and services to function in accordance with the specifications, the Designated Universal Service Providers shall bear the additional cost involved in modifying the equipment and no such claims from the USP Fund shall be allowed.

22 AUTHORITY APPROVAL

- 22.1 The Designated Universal Service Providers shall be responsible to obtain the necessary approvals from the state authority, local authority, electrical authority or other relevant authority (if applicable) before commencing the work.
- 22.2 The Designated Universal Service Providers shall be solely responsible for any failure to obtain the necessary approvals including any additional costs to comply with the authority's requirements.
- 22.3 The Designated Universal Service Provider will be responsible for any additional costs incurred to ensure infrastructure and services continue to be available in the event a change of site location is required as a result of the Designated Universal Service Providers non-compliance to the authority's requirements.

23 SAFETY

- 23.1 The Designated Universal Service Providers shall:
 - (a) be responsible to take all reasonable steps at all times to ensure the safety of persons and property at the sites;
 - (b) enforce and take all reasonable steps to cause compliance of all safety measures for workmen, contractors and all other persons at the sites as stipulated in all relevant safety-at-work legislation and regulations; and
 - (c) indemnify and keep indemnified, protect and defend at its own cost and expense, MCMC and its authorized officers from and against all actions, claims and liabilities arising out of acts done, omission or breach of any conditions in this Invitation by the Designated Universal Service Providers, its employees or its agents.

24 CLARIFICATION

- 24.1 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 equipment. In this respect, MCMC reserves the right to issue written clarification on the specifications to formalize its requirements more precisely.
- 24.2 By registering its interest and submitting its draft universal service plans, the Designated Universal Service Providers is deemed to consent to the use of any of the information in the draft universal service plans or part thereof by MCMC for any purpose whatsoever.

25 DATE FOR COMPLETION

- 25.1 The maximum time frame to complete the implementation of the entire scope of work in Appendix 2 (PART 1 and PART 2) shall not exceed a total of 7 months from the date of MCMC's approval based on the following breakdown:
- (a) PART 1- Implementation Period: maximum of 5 months; and
 - (b) PART 2 - Implementation Period: maximum of 2 months of the Completion date of Part 1.
- 25.2 Each Interested Licensee shall include a proposed detailed implementation timetable in its draft universal service plan.
- 25.3 The Designated Universal Service Provider shall complete the entire scope of PART 1 and PART 2 work **ON** or **BEFORE** the "Date For Completion" as stated in its Approved Universal Service Draft Plan or such extended of time may be allowed under the Item 26.2 of this Invitation.

26 EXTENSION OF TIME

- 26.1 Notwithstanding anything contained in Regulation 38 of the Regulations, where a time period is specified under these Regulations or in any request by the Commission for an act to be done or a condition to be fulfilled, the Designated Universal Service Provider for scope of PART 1 and PART 2 may request for an extension of time in writing and MCMC may grant such extension of time as it deems fit.
- 26.2 Extension of time may be given to the Designated Universal Service Provider upon requested and subject to confirmation by MCMC if the completion of the entire scope of PART 1 and PART 2 work is likely to be delayed or has been delayed beyond the date for completion as stated in its Approved Universal Service Draft Plan and item 25.1 of this Invitation due to any or more of the following events:
- a) force majeure as provided in Item 30 of this Invitation; or
 - b) exceptionally inclement weather.
- 26.3 **PROVIDED ALWAYS** that the Designated Universal Service Provider for scope of PART 1 and PART 2 has taken all reasonable steps to avoid or reduce such delay and shall do all that may reasonably required to proceed with the Work.
- 26.4 **PROVIDED THAT** all such delays are not due to any negligence, default or breach of contract as stated in the Letter Of Award (LOA) by the Designated Universal Service Provider for scope of PART 1 and PART 2.

26.5 **PROVIDED FURTHER** that the Designated Universal Service Provider for scope of PART 1 and PART 2 shall not be entitled to any extension of time where the instructions or acts of MCMC are necessitated by or intended to remedy any default of or breach of contract.

27 LIQUIDATED DAMAGES

27.1 In the event of a delay on the part of the Designated Universal Service Provider to complete the services in the stipulated time frame, the Designated Universal Service Provider shall pay MCMC liquidated damages at the rate of 0.002% per day, 5% per week, for a maximum of 2 weeks, of the value of the total cost and expenses of the approved universal service draft plan(s). In this respect, implementation time shall be of the essence.

28 WARRANTY PERIOD

28.1 A Designated Universal Service Provider for Part 1 shall be responsible to provide warranty for the items as stipulated in Appendix 2 as follows:

a) Category A for a period of warranty by tower manufacturer; and

b) Category B for a period of 12 months

from the date of completion work.

28.2 As stated in item 28.1 above, the obligation for a Designated Universal Service Provider for Part 1 under this warranty is to repair or replace for the items stipulated in Appendix 2.

29 PERFORMANCE BOND

29.1 A Designated Universal Service Provider is required to submit a performance bond in the form of Bank Draft or Bank Guarantee issued by a local licensed financial institution under the Banking and Financial Institutions Act 1989 prior to the execution of written notification of the approval of the universal service plan(s) with MCMC. This performance bond is equivalent in value of 10% of the approved universal service plan(s).

29.2 The Performance Bond **shall be kept** valid for a period of 12 months from the date of completion of the work.

29.3 In the event of a delay to complete the work upon the expiry of the performance bond, the Designated Universal Service Provider is required to renew and submit a new performance bond with the validity period of 12 months from the date of its expiry.

29.4 Notwithstanding the above, in the event that the Designated Universal Service Provider is being terminated under this Invitation hereof the said Performance Bond or any balance thereof shall be forfeited.

30 EFFECT OF FORCE MAJEURE

- 30.1 An "Event of Force Majeure" is an event beyond the control for the delay of scope of PART 1 and PART 2 work which are:
- a) war (whether declared or not), hostilities, invasion, act of foreign enemies;
 - b) insurrection, revolution, rebellion, military, or usurped power, civil war, terrorism;
 - c) 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;
 - d) nuclear explosion, radioactive or chemical contamination or radiation (unless caused by the negligence act, omission or default of the workmen, contractors and all other persons at all times during the execution of Works;
 - e) pressure waves caused by aircraft or other devices travelling at sonic or supersonic speeds; and
 - f) riot, commotion or disorder, unless solely restricted to employees of the workmen, contractors and all other persons for the execution of works.

31 QUALITY OF MATERIALS AND EQUIPMENTS

- 31.1 The Designated Universal Service Provider shall ensure that all items to be used in the provision of universal service in the underserved area shall be of the highest quality, fit for the purpose which they are intended and be free from defects arising out of faulty design, faulty and inferior material or faulty workmanship.

32 OMISSIONS OR ERRORS

- 32.1 The Designated Universal Service Providers are advised to study all terms, conditions and specifications very carefully and to make all necessary site survey, clarification etc., before finalizing their draft universal service plan under the Communications and Multimedia (Universal Service Provision) Regulation 2002 [*P.U. (A) 419/2002*] (as amended by *P.U (A) 258/2008*).
- 32.2 The Designated Service Providers shall be solely responsible for all such omissions/errors without any additional cost chargeable to MCMC. MCMC reserves the right not to entertain any request for variation of price(s) or submission of additional quotes for items left out in the original plan on the grounds of lack of knowledge, oversight etc.

33 CONDITION OF EQUIPMENTS

33.1 All items supplied shall be genuine, newly manufactured/factory fresh (i.e. not second hand, reconditioned and/or used items).

34 SOURCE OF SUPPLY

34.1 The Designated Universal Service Provider shall state the country of origin, place of manufacture and the registered name and address of manufacturer in their draft universal service plans. All equipment proposed is required to be in line with the Malaysian Standards type-approved.

35 INSPECTION AND AUDIT

35.1 MCMC shall have the right to inspect and verify that all obligations due from the Designated Universal Service Provider are fully complied with. The inspection and verification of the universal services provisioning may include:

a) Technical Audit

(i) Conducting a physical verification at the sites that the items and services are delivered according to the quantities, locations, timelines and specifications as contained in the approved universal service plan.

b) Commercial Audit

(ii) Verifying all relevant supporting documents submitted by the Designated Universal Service Provider in their claims for net universal service costs.

36 MONITORING AND REPORTING REQUIREMENT

36.1 The Designated Universal Service Provider shall, from time to time or upon request by MCMC, submit a report on the progress of the implementation of the Approved Universal Service Plan.

36.2 Notwithstanding the above, the Designated Universal Service Provider shall submit progress as may be determined by MCMC. The average number of different photographs to be taken shall be sufficient enough to show the progress of the works but in any case the average number per month shall not be less than five set. The digital qualities photographs in 4R size shall be all titled and dated and keep in album for safe keeping.

37 DECLARATION

- 37.1 The universal service plan shall be signed by the Chief Executive Officer of the Designated Universal Service Provider or any other person authorised by the Company.

38 INTERPRETATION

- 38.1 Any terms or words used in this Invitation shall, unless expressly stated or if the context otherwise requires, have the same meaning as in the Communications and Multimedia Act 1998, the regulation(s) and/or the instrument(s) made under it.
- 38.2 For avoidance of doubt, the word “Licensee” as used in this Invitation shall have the same meaning as in the Communications and Multimedia (Universal Service Provision) Regulations 2002.
- 38.3 “The Interested Licensees” means [any person who holds an individual license and interested to participate pursuant to this Invitation].
- 38.4 “The Designated Universal Service Providers” means [any licensees designated pursuant to this Invitation].
- 38.5 Glossary for the term or word used in this Invitation is stipulated in the List of Glossaries provided.

39 ENQUIRIES

- 39.1 Should there be a need to seek clarification and additional information regarding this Invitation, all inquiries shall be directed to Secretary of the Tender Committee via email at tender@cmc.gov.my.
- 39.2 All relevant enquiries pertaining to this Invitation should reach MCMC at least 14 days before the closing date for the submission of the relevant draft universal service plan(s).

**SECTION V
COORDINATION OF PART 1 AND PART 2**

40 GENERAL

- 40.1 This section applies where MCMC designates two different Universal Service Providers for one cluster; that is where MCMC designates one universal service provider for the scope of work in PART 1 and another Universal Service Provider for the scope of work in PART 2 for the same cluster.
- 40.2 The Universal Service Providers for the same cluster shall cooperate in good faith and provide reasonable assistance to each other in a timely manner to enable the implementation of the universal service plans so as to ensure the universal service objective are achieved. This includes sharing relevant information, avoiding unnecessary disputes and resolving differences and disputes promptly.

41 CONDITIONS RELEVANT TO SCOPE OF WORK IN PART 1

- 41.1 The Designated Universal Service Providers for the same cluster shall cooperate at all times including before the commencement and during the implementation of the scope of work in PART 1 to ensure that the facilities to be installed can enable the requirements for the provision of network services set out in Item 2.4 to be met, particularly in the following areas:
- (a) the Designated Universal Service Provider for the scope of work in PART 1 shall:
- (i) consult the Designated Universal Service Provider for the scope of work in PART 2 on all relevant matters before commencing the work; and
 - (ii) promptly notify the Designated Universal Service Provider for the scope of work in PART 2 when the tower and its associated site/facilities are ready for use and allow the Designated Universal Service Provider for PART 2 to install their equipments for the provision of network services.
 - (iii) shall assist the universal service provider for the scope of work in PART 2 in all relevant matters to the commencement of any physical work related to site/access to site/towers.
- 41.2 The relevant matters include but not limited to, the confirmation of suitability of site location (for example, clarity of line of sight).

42 CONDITIONS RELEVANT TO SCOPE OF WORK IN PART 2

42.1 The Designated Universal Service Providers for the same cluster shall cooperate at all times including before the commencement and during the implementation of the scope of work in PART 2 to ensure that network services can be provided consistent with the requirement set out in Item 2.4, particularly in the following areas:

- (a) the Designated Universal Service Provider for the scope of work in PART 2 shall promptly attend to issues related to its equipments as and when notified by the universal service provider for the scope of work in PART 1.

(the rest of this page has been intentionally left blank)

**SECTION VI
NATURAL DISASTERS**

43 CONTINUATION OF SERVICES

- 43.1 Since the communication network is quite likely to be affected during disasters, disrupting the communication connectivity (which is the most crucial for response and relief work), this Invitation is made with respect to the Installation of Equipment and Electronics only pursuant to this Invitation subject to Item 2.4 (b), is entitled to claim only such related costs.
- 43.2 The primary terms and requirement are to establish and ensure the public cellular services still **IN-SERVICE**.
- 43.3 Notwithstanding the above and Item 30, the Designated Universal Service Providers shall establish a contingency plan as stated in Item 13.1 (c) (iv) with the following:
- (a) the Designated Universal Service Providers for the scope of work in PART 1 to perform any work deemed necessary to improve resilience and to protect the infrastructure following the natural disaster such as flood, erosion due to the climate and others.
 - (b) the Designated Universal Service Providers for the scope of work in PART 2 to install and maintain the equipment or to equip with the contingency plan during natural disasters events such as flood period especially at low-lying flood prone areas;
 - (c) the Designated Universal Service Providers for the same cluster (PART 1 and PART 2) shall cooperate in good faith and provide reasonable assistance to each other in a timely manner especially when dealing with natural disasters event such as flooding etc to enable the public cellular coverage is **IN-SERVICE**.

(the rest of this page has been intentionally left blank)

APPENDICES

(which are to be taken and construed as an essential part of this invitation)

APPENDIX 1 – LIST OF UNIVERSAL SERVICE TARGETS

Cluster 1

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|-------|-------------|--|----------|------------|
| 1 | T3E_0001 | Johor | Batu Pahat | Kg Pt Hj Yusof | 1.733417 | 103.251187 |
| 2 | T3E_0002 | Johor | Kota Tinggi | Jalan Sg Waha ke Sg Mas | 1.657724 | 104.133440 |
| 3 | T3E_0003 | Johor | Kulaijaya | Kulai to Pekan Nenas (Ldg Kulai Young) | 1.626165 | 103.531867 |
| 4 | T3E_0004 | Johor | Muar | Kg Paya Lebar | 1.983503 | 102.698525 |
| 5 | T3E_0005 | Johor | Paloh | Ldg Kempas & Ladang Gunung Mas | 2.204950 | 103.163350 |
| 6 | T3E_0006 | Johor | Pontian | Kg Simpang Kiri | 1.360710 | 103.496640 |
| 7 | T3E_0007 | Johor | Segamat | Felda Plantation Palong Timur 5 | 2.782228 | 102.688163 |
| 8 | T3E_0008 | Johor | Segamat | Felcra Sekijang, Segamat | 2.529206 | 102.937770 |
| 9 | T3E_0009 | Johor | Segamat | Kg Melayu Bukit Siput | 2.461039 | 102.846966 |
| 10 | T3E_0010 | Johor | Segamat | Kg Org Asli Segamat | 2.545030 | 103.004370 |

Cluster 2

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|-----------------|-------------|---|----------|------------|
| 1 | T3E_0011 | Negeri Sembilan | Gelami Lemi | Jeram Gading | 3.081300 | 102.056900 |
| 2 | T3E_0012 | Negeri Sembilan | Gelami Lemi | Glami Lemi (Pusat Perikanan) | 3.020239 | 102.009781 |
| 3 | T3E_0013 | Negeri Sembilan | Juasseh | Kg Rembang Panas & Kg Kuala Rembang Panas | 2.754636 | 102.310375 |
| 4 | T3E_0014 | Negeri Sembilan | Kenaboi | Kg. Bintongan | 2.603143 | 102.118974 |
| 5 | T3E_0015 | Negeri Sembilan | Kenaboi | Kg. Tohor | 3.162110 | 101.993920 |
| 6 | T3E_0016 | Negeri Sembilan | Pantai | Bkt Tangga | 2.829100 | 101.999400 |
| 7 | T3E_0017 | Negeri Sembilan | Peradong | Kg Chenor, Kg Relai | 2.956211 | 102.108211 |
| 8 | T3E_0018 | Negeri Sembilan | Serting Ulu | Felda Pasoh Dua | 2.942575 | 102.303325 |
| 9 | T3E_0019 | Negeri Sembilan | Terachi | Kg. Parit Istana (Seri Menanti) | 2.724492 | 102.150742 |

Cluster 3

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|-----------------|-------------|-----------------------------|----------|------------|
| 1 | T3E_0020 | Negeri Sembilan | Gemas | Felda Palong 1 | 2.689679 | 102.571147 |
| 2 | T3E_0021 | Negeri Sembilan | Gemas | Kg. Orang Asli Goodwood | 2.590238 | 102.550622 |
| 3 | T3E_0022 | Negeri Sembilan | Gemencheh | Kg Ulu Rokan | 2.568969 | 102.381997 |
| 4 | T3E_0023 | Negeri Sembilan | Jelai | Felda Bukit Rokan Barat | 2.673300 | 102.381700 |
| 5 | T3E_0024 | Negeri Sembilan | Jempol | Kg. Langkap | 2.611635 | 102.352086 |
| 6 | T3E_0025 | Negeri Sembilan | Jempol | Kg. Sg. Kelamah | 2.727475 | 102.434060 |
| 7 | T3E_0026 | Negeri Sembilan | Johol | Kg Ulu Punggul | 2.644145 | 102.251865 |
| 8 | T3E_0027 | Negeri Sembilan | Johol | Kg Kuala Johol | 2.625169 | 102.260731 |
| 9 | T3E_0028 | Negeri Sembilan | Johol | Kg. Gemencheh Ulu | 2.564004 | 102.299608 |
| 10 | T3E_0029 | Negeri Sembilan | Keru | Kg Keru | 2.501422 | 102.282439 |
| 11 | T3E_0030 | Negeri Sembilan | Miku | Kg. Miku | 2.605166 | 102.160848 |
| 12 | T3E_0031 | Negeri Sembilan | Pertang | Taman Guru, Simpang Pertang | 2.947000 | 102.237100 |
| 13 | T3E_0032 | Negeri Sembilan | Rantau | Kg. Charik, Inas | 2.603242 | 102.188444 |
| 14 | T3E_0033 | Negeri Sembilan | Sri Menanti | Kg. Gunung Pasir | 2.666733 | 102.160392 |
| 15 | T3E_0034 | Negeri Sembilan | Ulu Jempol | Kg. Tengkek | 2.857800 | 102.207600 |
| 16 | T3E_0035 | Negeri Sembilan | Ulu Muar | Kg. Sungai Dua Besar | 2.733693 | 102.289964 |

Cluster 4

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|-------|---------------|--|----------|------------|
| 1 | T3E_0036 | Perak | Batang Padang | Pos Keding | 4.003725 | 101.507040 |
| 2 | T3E_0037 | Perak | Batang Padang | Pos Tenau | 4.066465 | 101.530496 |
| 3 | T3E_0038 | Perak | Batang Padang | Kg Poh, Bidor | 4.087660 | 101.334248 |
| 4 | T3E_0039 | Perak | Batang Padang | Kg Sg Dara, Tg Malim | 3.788849 | 101.498521 |
| 5 | T3E_0040 | Perak | Batang Padang | Lata Iskandar | 4.326556 | 101.330917 |
| 6 | T3E_0041 | Perak | Hilir Perak | Kg. Tebing Rebak/ Kg. Sg. Dulang Dalam | 3.954810 | 100.877890 |
| 7 | T3E_0042 | Perak | Hulu Perak | KM 24 - Baling-Gerik Highway | 5.507706 | 100.930858 |
| 8 | T3E_0043 | Perak | Hulu Perak | KM 29 - Baling-Gerik Highway | 5.497819 | 100.969672 |

| | | | | | | |
|----|----------|-------|---------------|------------------------------|----------|------------|
| 9 | T3E_0044 | Perak | Hulu Perak | KM 34 - Baling-Gerik Highway | 5.502458 | 101.006517 |
| 10 | T3E_0045 | Perak | Hulu Perak | KM 39 - Baling-Gerik Highway | 5.495614 | 101.047542 |
| 11 | T3E_0046 | Perak | Hulu Perak | KM 44 - Baling-Gerik Highway | 5.464892 | 101.080842 |
| 12 | T3E_0047 | Perak | Kampar | Kg. Seri Kampar | 4.276944 | 101.170278 |
| 13 | T3E_0048 | Perak | Kerian | Kg. Alor Setanggol | 4.994020 | 100.622125 |
| 14 | T3E_0049 | Perak | Batang Padang | Kg. Rasau, Slim River | 4.820701 | 100.878330 |
| 15 | T3E_0050 | Perak | Kuala Kangsar | Kg.Pechah Batu | 4.622282 | 100.875432 |
| 16 | T3E_0051 | Perak | Selama | Kg Ulu Mengkuang | 5.213058 | 100.765070 |

Cluster 5

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|--------|--------------|---|----------|------------|
| 1 | T3E_0052 | Kedah | Baling | Kg. Charok Pendiat, Kg. Seniyek | 5.543561 | 100.931053 |
| 2 | T3E_0053 | Kedah | Baling | Kampung Simpang Empat, Kuala Lesong, Mukum Teloi Kanan, Kuala Ketil | 5.692200 | 100.667200 |
| 3 | T3E_0054 | Kedah | Changlun | Kg. Kangar | 6.345352 | 100.394712 |
| 4 | T3E_0055 | Kedah | Telaga Mas | Kg. Bukit Teriak | 6.173577 | 100.453868 |
| 5 | T3E_0056 | Kedah | Kubang Pasu | Kg Carok Tok Lateh | 6.266667 | 100.483333 |
| 6 | T3E_0057 | Kedah | Padang Terap | Kg Kubang Panjang | 6.266203 | 100.555061 |
| 7 | T3E_0058 | Kedah | Pendang | Kg Bukit Chengal | 6.053204 | 100.564857 |
| 8 | T3E_0059 | Kedah | Pendang | Kg Lampam, Pendang | 6.108445 | 100.605580 |
| 9 | T3E_0060 | Kedah | Sik | Kg Perangis/ Kg. Durian Burong | 5.862861 | 100.748250 |
| 10 | T3E_0061 | Kedah | Sik | Kg Hujung Bandar SIK | 5.776400 | 100.744400 |
| 11 | T3E_0062 | Kedah | Sik | Kg Beruna | 5.830790 | 100.620230 |
| 12 | T3E_0063 | Kedah | Sik | Kg Batu Besar Mukim Teloi | 5.726763 | 100.735174 |
| 13 | T3E_0064 | Perlis | Perlis | Wang Kelian | 6.696288 | 100.179701 |
| 14 | T3E_0065 | Perlis | Perlis | Kg Guar Jentik | 6.565153 | 100.208352 |

Cluster 6

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUDE |
|-----|----------|----------|------------|--|----------|------------|
| 1 | T3E_0066 | Kelantan | Gua Musang | Between Kundur To Panggung Lalat | 4.893769 | 101.911735 |
| 2 | T3E_0067 | Kelantan | Gua Musang | Felda Aring 4 | 4.997694 | 102.494500 |
| 3 | T3E_0068 | Kelantan | Gua Musang | Jln Felda Paloh 3 - Kg Lebir Kesedar, Gua Musang | 5.009354 | 102.327009 |
| 4 | T3E_0069 | Kelantan | Gua Musang | Pos Linggi / Miak (Sk Linggi) Kg. Lepar | 5.105365 | 102.353198 |
| 5 | T3E_0070 | Kelantan | Gua Musang | Pos Pasik (SK Sri Permai), Gua Musang | 5.212600 | 101.761700 |
| 6 | T3E_0071 | Kelantan | Jeli | Kg Kerilla | 5.423933 | 101.957159 |
| 7 | T3E_0072 | Kelantan | Jeli | Kg Pulau Tiga | 5.531000 | 101.894000 |
| 8 | T3E_0073 | Kelantan | Jeli | Pos Sg Rual (Sk Sg Rual) | 5.653200 | 101.794000 |
| 9 | T3E_0074 | Kelantan | Kuala Krai | Jelawang | 5.216889 | 101.931361 |
| 10 | T3E_0075 | Kelantan | Kuala Krai | Kg.Bt.Balai/ Kg. Bechah Salok | 5.547750 | 102.257750 |
| 11 | T3E_0076 | Kelantan | Kuala Krai | Sg Setong & Surrounding | 5.253200 | 101.950000 |

Cluster 7

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUDE |
|-----|----------|----------|------------|-------------------------------|----------|------------|
| 1 | T3E_0077 | Kelantan | Bachok | Kg Chap | 6.039206 | 102.331104 |
| 2 | T3E_0078 | Kelantan | Kota Bharu | Kg Chengal, Ketereh | 5.977470 | 102.263703 |
| 3 | T3E_0079 | Kelantan | Kota Bharu | Kg Kota | 6.087858 | 102.223090 |
| 4 | T3E_0080 | Kelantan | Kota Bharu | Kg Serian | 6.018811 | 102.201862 |
| 5 | T3E_0081 | Kelantan | Machang | Kg. Joh | 5.828661 | 102.194996 |
| 6 | T3E_0082 | Kelantan | Pasir Mas | Kg Gabus, Kg Bujuk, Bkt Jarum | 5.966686 | 102.126155 |
| 7 | T3E_0083 | Kelantan | Pasir Mas | Kg Kolam, Chasi, Tasik Nibung | 5.937805 | 102.117615 |
| 8 | T3E_0084 | Kelantan | Tumpat | Pulau Suri/Teluk Rajuna/Gorek | 6.210700 | 102.208900 |

Cluster 8

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|------------|------------|--|----------|------------|
| 1 | T3E_0085 | Terengganu | Dungun | Jln AMBS-Pasir Raja (new site) | 4.663334 | 103.076121 |
| 2 | T3E_0086 | Terengganu | Dungun | Jln Pasir Raja - Ambs3 | 4.658413 | 103.144252 |
| 3 | T3E_0087 | Terengganu | Dungun | Jln Pasir Raja - Ambs4 | 4.671216 | 103.130665 |
| 4 | T3E_0088 | Terengganu | Dungun | Kg Baru Kuala Abang | 4.839548 | 103.394913 |
| 5 | T3E_0089 | Terengganu | Dungun | Lpt2 No.5 | 4.897199 | 103.145600 |
| 6 | T3E_0090 | Terengganu | Dungun | Lpt2 No.6 | 4.854967 | 103.186242 |
| 7 | T3E_0091 | Terengganu | Dungun | LPT2 No.8 | 4.781200 | 103.290300 |
| 8 | T3E_0092 | Terengganu | Dungun | Pulau Tanggol | 4.809635 | 103.679890 |
| 9 | T3E_0093 | Terengganu | Kemaman | Jln Felda Bkt Kuantan - Felda Neram 2, Kemaman | 4.012180 | 103.266687 |
| 10 | T3E_0094 | Terengganu | Kemaman | Jln Felda Cherul-Sg Lembang 1, Kemaman | 4.096671 | 103.124057 |
| 11 | T3E_0095 | Terengganu | Kemaman | Jln Kg. Paman - Kemasik | 4.272035 | 103.343225 |
| 12 | T3E_0096 | Terengganu | Kemaman | Jln Mak Lagam-Cheneh1 | 4.195426 | 103.343897 |
| 13 | T3E_0097 | Terengganu | Kemaman | Jln Mak Lagam-Cheneh2 (Kg. Lubuk Batu) | 4.198213 | 103.289350 |
| 14 | T3E_0098 | Terengganu | Kemaman | Lpt2 No.10 | 4.548300 | 103.359200 |
| 15 | T3E_0099 | Terengganu | Kemaman | Lpt2 No.11 | 4.507246 | 103.375940 |
| 16 | T3E_0100 | Terengganu | Kemaman | Lpt2 No.12 | 4.189400 | 103.311000 |
| 17 | T3E_0101 | Terengganu | Kemaman | Padang Kubu, Kemaman | 4.385089 | 103.262810 |

Cluster 9

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUDE |
|-----|----------|------------|-----------------|---|----------|------------|
| 1 | T3E_0102 | Terengganu | Hulu Terengganu | Kampong Tok Randok | 5.064900 | 103.096252 |
| 2 | T3E_0103 | Terengganu | Hulu Terengganu | Kg Bukit Tadok | 5.184674 | 103.007330 |
| 3 | T3E_0104 | Terengganu | Hulu Terengganu | Kg Durian Kassim/Kg Pachat | 5.021034 | 103.134460 |
| 4 | T3E_0105 | Terengganu | Hulu Terengganu | Kg Jerkah | 5.247702 | 102.848554 |
| 5 | T3E_0106 | Terengganu | Hulu Terengganu | Kg Kuala Jeneris /Simpang ke Tasik Kenyir | 5.194033 | 102.886140 |
| 6 | T3E_0107 | Terengganu | Hulu Terengganu | Kg Ulu Sat, Hulu Trg | 5.187950 | 102.922259 |
| 7 | T3E_0108 | Terengganu | Hulu Terengganu | Kg. Bukit Nenasá / Jalan K. Berang Sg. Tong | 5.314112 | 102.913821 |
| 8 | T3E_0109 | Terengganu | Hulu Terengganu | Lpt2 No.2 | 5.131732 | 103.051696 |
| 9 | T3E_0110 | Terengganu | Marang | Jln Jambu Bongkok-Rantau Abang, Marang | 4.905303 | 103.365294 |
| 10 | T3E_0111 | Terengganu | Marang | Kg Alor Tembesu/Gong Balai, Marang | 5.019366 | 103.302800 |
| 11 | T3E_0112 | Terengganu | Marang | Kg Batu Kelikir/ Jerung Seberang | 5.136872 | 103.118135 |
| 12 | T3E_0113 | Terengganu | Marang | Kg Kubu/Kg Tanah Lot, Marang | 5.089081 | 103.163827 |
| 13 | T3E_0114 | Terengganu | Marang | Kg. Undang | 5.229188 | 103.132360 |
| 14 | T3E_0115 | Terengganu | Marang | Pulau Kapas | 5.218586 | 103.261174 |

Cluster 10

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUDE |
|-----|----------|------------|------------|-------------------------------|----------|------------|
| 1 | T3E_0116 | Terengganu | Besut | Kg Keluang | 5.782329 | 102.613899 |
| 2 | T3E_0117 | Terengganu | Besut | Kg Kuala Kubang | 5.642941 | 102.583760 |
| 3 | T3E_0118 | Terengganu | Besut | La Hot Spring | 5.517183 | 102.534534 |
| 4 | T3E_0119 | Terengganu | Setiu | Jln Between Belara - Sg. Tong | 5.344683 | 102.907010 |
| 5 | T3E_0120 | Terengganu | Setiu | Kg Permaisuri, Setiu | 5.570745 | 102.769575 |
| 6 | T3E_0121 | Terengganu | Setiu | Kg Saujana And Surrounding | 5.606885 | 102.750845 |
| 7 | T3E_0122 | Terengganu | Setiu | Pulau Bidong | 5.620428 | 103.063717 |
| 8 | T3E_0123 | Terengganu | Setiu | Pulau Lang Tengah | 5.792258 | 102.896063 |

Cluster 11

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|--------|------------|---|----------|------------|
| 1 | T3E_0124 | Pahang | Bera | Bera Selatan 3 | 2.909200 | 102.682400 |
| 2 | T3E_0125 | Pahang | Bera | Felda Triang Selatan 1 | 3.126500 | 102.786800 |
| 3 | T3E_0126 | Pahang | Bera | Jln Bukit Serok ke sempadan Phg-Negeri Sembilan, Bera | 2.907473 | 102.691726 |
| 4 | T3E_0127 | Pahang | Bera | Jln Pelangai ke Kemasul, Bera | 3.256388 | 102.190742 |
| 5 | T3E_0128 | Pahang | Bera | Jln Tembangau 5 - Tembangau 8 | 3.025792 | 102.567875 |
| 6 | T3E_0129 | Pahang | Bera | Kg Menteri | 3.288236 | 102.421325 |
| 7 | T3E_0130 | Pahang | Bera | Mengkarak Stesen | 3.329200 | 102.419430 |
| 8 | T3E_0131 | Pahang | Pekan | Jln Sg Ganoh - Kg Chamau, Pekan | 3.269946 | 102.891161 |
| 9 | T3E_0132 | Pahang | Pekan | Kg. Pulau Keladi/Tmn. Pelangkah, Pekan | 3.516151 | 103.373366 |
| 10 | T3E_0133 | Pahang | Rompin | Ladang Chin Teck, Rompin | 3.271800 | 102.808403 |
| 11 | T3E_0134 | Pahang | Rompin | Main Road Muadzam Gambang | 3.125402 | 103.100061 |
| 12 | T3E_0135 | Pahang | Rompin | Sungai Puteri, Kg Sepakat Timur | 2.780500 | 103.498900 |

Cluster 12

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|--------|------------|-------------------------------|----------|------------|
| 1 | T3E_0136 | Pahang | Jerantut | Kg Ulu Retang, Jerantut | 4.097670 | 102.361775 |
| 2 | T3E_0137 | Pahang | Jerantut | Kg. Binjai, Jerantut | 3.924902 | 102.331797 |
| 3 | T3E_0138 | Pahang | Jerantut | Kg. Pulau Mansok | 3.976152 | 102.378859 |
| 4 | T3E_0139 | Pahang | Lipis | Ganding/Lik Kecil | 4.091600 | 102.248300 |
| 5 | T3E_0140 | Pahang | Lipis | Kg Jeransang | 4.010978 | 102.081778 |
| 6 | T3E_0141 | Pahang | Lipis | Pos Lenjang | 3.965600 | 101.971400 |
| 7 | T3E_0142 | Pahang | Raub | Jln Lembah Klau - Bilut, Raub | 3.654148 | 101.953132 |
| 8 | T3E_0143 | Pahang | Raub | Kg OA Batu Balung, Raub | 3.709759 | 101.864294 |
| 9 | T3E_0144 | Pahang | Raub | Kg Orang Asli Ulu Yol | 3.889908 | 101.978683 |
| 10 | T3E_0145 | Pahang | Raub | Kg Tanjung Putus, Raub | 3.889329 | 101.919247 |
| 11 | T3E_0146 | Pahang | Raub | Kg. Temau, Dong | 3.923330 | 101.913190 |

Cluster 13

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUDE |
|-----|----------|--------|------------|--|----------|------------|
| 1 | T3E_0147 | Pahang | Kuantan | Felda Lepar Hilir 2/3, Kuantan | 3.644929 | 103.039542 |
| 2 | T3E_0148 | Pahang | Kuantan | Jln Felda Cherul-Sg Lembing 2, Kuantan | 4.067510 | 103.049833 |
| 3 | T3E_0149 | Pahang | Kuantan | Jln Felda Cherul-Sg Lembing 3, Kuantan | 4.022424 | 103.029786 |
| 4 | T3E_0150 | Pahang | Kuantan | Kg Paya Rambutan, Paya Bungor | 3.718827 | 102.911015 |
| 5 | T3E_0151 | Pahang | Kuantan | Lepar Utara 4, Kuantan | 3.867742 | 102.828523 |
| 6 | T3E_0152 | Pahang | Maran | Jln Sg Jerik-Kg Perak, Maran | 3.824631 | 102.634107 |
| 7 | T3E_0153 | Pahang | Maran | Kg. Belebung | 3.532200 | 102.774640 |
| 8 | T3E_0154 | Pahang | Maran | Kg. Seberang Chenor, Maran | 3.483100 | 102.599900 |
| 9 | T3E_0155 | Pahang | Maran | Kuala Wau | 3.484100 | 102.787100 |
| 10 | T3E_0156 | Pahang | Maran | Lubuk Ujid | 3.651306 | 102.699026 |
| 11 | T3E_0157 | Pahang | Temerloh | Gunung Senyum | 3.717560 | 102.398580 |
| 12 | T3E_0158 | Pahang | Temerloh | Kg Sg Cheh, Bukit Lada | 3.607407 | 102.414028 |
| 13 | T3E_0159 | Pahang | Temerloh | Kg. Jebat | 3.740540 | 102.362278 |
| 14 | T3E_0160 | Pahang | Temerloh | Main Road Temerloh - Jerantut | 3.602523 | 102.390945 |

Cluster 14

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUDE |
|-----|----------|--------|-------------------|--|----------|------------|
| 1 | T3E_0161 | Pahang | Cameron Highlands | New Main Road (Lipis To Cameron Highland) 6 | 4.406807 | 101.434246 |
| 2 | T3E_0162 | Pahang | Lipis | Kg Betong Baru | 4.226927 | 101.948744 |
| 3 | T3E_0163 | Pahang | Lipis | Kg Kenip | 4.277400 | 101.683800 |
| 4 | T3E_0164 | Pahang | Lipis | Kuala Koyan | 4.259700 | 101.858600 |
| 5 | T3E_0165 | Pahang | Lipis | New Main Road (Lipis To Cameron Highland) 3 | 4.348838 | 101.649252 |
| 6 | T3E_0166 | Pahang | Lipis | New Main Road (Lipis To Cameron Highland) 4 | 4.390578 | 101.617126 |
| 7 | T3E_0167 | Pahang | Lipis | Pos Lanai | 4.403840 | 101.724581 |
| 8 | T3E_0168 | Pahang | Lipis | Pos Semui | 4.311539 | 101.618419 |
| 9 | T3E_0169 | Pahang | Lipis | Pos Sinderut | 4.183424 | 101.582408 |
| 10 | T3E_0170 | Pahang | Lipis | Pos Titom | 4.290815 | 101.509908 |
| 11 | T3E_0171 | Pahang | Raub | Jln. Tersang-Sg. Koyan, Raub | 4.147146 | 101.792248 |
| 12 | T3E_0172 | Pahang | Raub | Kg Padang Kela | 4.025516 | 101.679360 |

Cluster 15

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|-------|------------|----------------------------|----------|------------|
| 1 | T3E_0173 | Sabah | Beaufort | Kg Sg Gerama | 5.363100 | 115.576700 |
| 2 | T3E_0174 | Sabah | Beaufort | Kg Karangan | 5.145500 | 115.691940 |
| 3 | T3E_0175 | Sabah | Beaufort | Kg Bintuka | 5.271700 | 115.415800 |
| 4 | T3E_0176 | Sabah | Beaufort | Beaufort3 (Kg Jabang) | 5.287700 | 115.583683 |
| 5 | T3E_0177 | Sabah | Keningau | SK Kinaluan | 5.591900 | 116.454000 |
| 6 | T3E_0178 | Sabah | Keningau | Kg Lanas | 5.319610 | 116.499030 |
| 7 | T3E_0179 | Sabah | Papar | Kg.Kaiduan | 5.783300 | 116.083300 |
| 8 | T3E_0180 | Sabah | Papar | Kg. Kinolosodon | 5.555800 | 115.982800 |
| 9 | T3E_0181 | Sabah | Papar | Kg Ulu Bongawan Kimanis | 5.333300 | 115.850000 |
| 10 | T3E_0182 | Sabah | Papar | Kg Gadong Kimanis | 5.625800 | 115.911600 |
| 11 | T3E_0183 | Sabah | Penampang | Kg.Kalangaan | 5.850000 | 116.272800 |
| 12 | T3E_0184 | Sabah | Penampang | Kg.Longkogungan | 5.817540 | 116.308222 |
| 13 | T3E_0185 | Sabah | Penampang | Kg.Terian | 5.810300 | 116.180900 |
| 14 | T3E_0186 | Sabah | Sipitang | SK Ulu Bole | 4.826400 | 115.709000 |
| 15 | T3E_0187 | Sabah | Sipitang | SK Meligan | 4.971200 | 115.671000 |
| 16 | T3E_0188 | Sabah | Sipitang | Long Pasia | 4.406000 | 115.731400 |

Cluster 16

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|-------|------------|--------------------|----------|------------|
| 1 | T3E_0189 | Sabah | Pensiangan | Mukim Tibow | 4.500000 | 116.733300 |
| 2 | T3E_0190 | Sabah | Pensiangan | Kg.Saliliran | 4.572700 | 116.110300 |
| 3 | T3E_0191 | Sabah | Pensiangan | Kg Sibulu | 4.470600 | 116.214200 |
| 4 | T3E_0192 | Sabah | Pensiangan | Kg Balahuyong | 4.436800 | 116.330800 |
| 5 | T3E_0193 | Sabah | Pensiangan | Pekan Pensiangan | 4.538980 | 116.312849 |
| 6 | T3E_0194 | Sabah | Pensiangan | Kg Sibugo | 4.618600 | 116.229700 |
| 7 | T3E_0195 | Sabah | Pensiangan | Kg. Saliman | 4.412740 | 116.433343 |
| 8 | T3E_0196 | Sabah | Pensiangan | Kg.Sumandi | 4.539680 | 116.375136 |
| 9 | T3E_0197 | Sabah | Pensiangan | SK Longongon | 4.380400 | 116.097000 |

Cluster 17

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|-------|-------------|----------------------------------|----------|------------|
| 1 | T3E_0198 | Sabah | Kota Belud | Kg Taburan | 6.612222 | 116.597778 |
| 2 | T3E_0199 | Sabah | Kota Belud | Kg Pituru | 6.340280 | 116.338610 |
| 3 | T3E_0200 | Sabah | Kota Belud | Pulau Mantanani | 6.364410 | 116.471976 |
| 4 | T3E_0201 | Sabah | Kota Belud | Lok Lunuk | 6.297220 | 116.281600 |
| 5 | T3E_0202 | Sabah | Kota Marudu | Gana | 6.341230 | 116.912700 |
| 6 | T3E_0203 | Sabah | Kudat | SK Sabur | 6.720100 | 116.787000 |
| 7 | T3E_0204 | Sabah | Kudat | SK Manggis | 6.454200 | 116.956000 |
| 8 | T3E_0205 | Sabah | Pitas | Kg Dandun Pusat | 6.658330 | 117.016944 |
| 9 | T3E_0206 | Sabah | Ranau | Kg Bongkad/Kg Narawang | 6.007320 | 116.779480 |
| 10 | T3E_0207 | Sabah | Ranau | Miruru | 5.766944 | 116.978333 |
| 11 | T3E_0208 | Sabah | Ranau | Kg Pahu | 5.942160 | 116.554900 |
| 12 | T3E_0209 | Sabah | Ranau | SK Pinawantai Ranau | 6.123300 | 116.718000 |
| 13 | T3E_0210 | Sabah | Ranau | SK Nampasan | 5.867000 | 116.685000 |
| 14 | T3E_0211 | Sabah | Tuaran | Tomis | 5.996670 | 116.482778 |
| 15 | T3E_0212 | Sabah | Tuaran | Tiong Ratau | 5.933060 | 116.400000 |
| 16 | T3E_0213 | Sabah | Tuaran | Kg Gonipis | 5.943330 | 116.327222 |
| 17 | T3E_0214 | Sabah | Tuaran | Kg Sinorut | 6.001390 | 116.312500 |
| 18 | T3E_0215 | Sabah | Tuaran | Kg Pangalan -North to Kg Betutai | 6.243900 | 116.324400 |

Cluster 18

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|-------|------------|-----------------------------------|----------|------------|
| 1 | T3E_0216 | Sabah | Beluran | Meridian Plantation Labuk & Sugut | 6.458440 | 117.405240 |
| 2 | T3E_0217 | Sabah | Beluran | SK Abuan | 6.242500 | 117.119000 |
| 3 | T3E_0218 | Sabah | Beluran | Kg Tengkurus | 6.312000 | 117.515400 |
| 4 | T3E_0219 | Sabah | Beluran | Kg Pantai Boring | 6.371800 | 117.620600 |
| 5 | T3E_0220 | Sabah | Beluran | SK Golong | 6.451500 | 117.283000 |
| 6 | T3E_0221 | Sabah | Beluran | Kg Matanggal Lama | 6.286300 | 117.231800 |
| 7 | T3E_0222 | Sabah | Beluran | Melapi Sugut | 6.219000 | 117.254300 |
| 8 | T3E_0223 | Sabah | Beluran | Pamoi | 6.015400 | 117.485800 |
| 9 | T3E_0224 | Sabah | Sandakan | SK Ran Luboh | 5.998117 | 117.964253 |
| 10 | T3E_0225 | Sabah | Sandakan | Rosco Plantation | 5.812909 | 117.505247 |
| 11 | T3E_0226 | Sabah | Sandakan | Masang Estate | 5.665400 | 117.868100 |

Cluster 19

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUDE |
|-----|----------|-------|--------------|---------------------------|----------|------------|
| 1 | T3E_0227 | Sabah | Kinabatangan | Melewar Estate | 5.324261 | 118.042100 |
| 2 | T3E_0228 | Sabah | Kinabatangan | Kg Tangkong | 5.218144 | 117.534800 |
| 3 | T3E_0229 | Sabah | Kinabatangan | Kg Kuamut | 5.219682 | 117.487900 |
| 4 | T3E_0230 | Sabah | Kinabatangan | Tundun Bohangin | 5.418710 | 118.077000 |
| 5 | T3E_0231 | Sabah | Kinabatangan | SK Keramuak | 5.914200 | 117.085000 |
| 6 | T3E_0232 | Sabah | Kinabatangan | Pinangan Estet | 5.099825 | 116.748100 |
| 7 | T3E_0233 | Sabah | Kinabatangan | Abai Island -River Island | 5.687300 | 118.383522 |
| 8 | T3E_0234 | Sabah | Tongod | Lalampas | 5.439300 | 116.745900 |
| 9 | T3E_0235 | Sabah | Tongod | Tampasak | 5.291000 | 116.883100 |
| 10 | T3E_0236 | Sabah | Tongod | Inarad | 5.005200 | 116.857000 |

Cluster 20

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUDE |
|-----|----------|-------|------------|--------------------------|----------|------------|
| 1 | T3E_0237 | Sabah | Kalabakan | Km 10 Kalabakan-Nabawan | 4.444200 | 117.417200 |
| 2 | T3E_0238 | Sabah | Kalabakan | Km 20 Kalabakan-Nabawan | 4.494000 | 117.346800 |
| 3 | T3E_0239 | Sabah | Kalabakan | Km 30 Kalabakan-Nabawan | 4.505500 | 117.273000 |
| 4 | T3E_0240 | Sabah | Kalabakan | Km 40 Kalabakan-Nabawan | 4.522700 | 117.193500 |
| 5 | T3E_0241 | Sabah | Kalabakan | Km 50 Kalabakan-Nabawan | 4.563500 | 117.138400 |
| 6 | T3E_0242 | Sabah | Kalabakan | Km 60 Kalabakan-Nabawan | 4.547000 | 117.061200 |
| 7 | T3E_0243 | Sabah | Kalabakan | Km 70 Kalabakan-Nabawan | 4.578000 | 116.991600 |
| 8 | T3E_0244 | Sabah | Kalabakan | Km 80 Kalabakan-Nabawan | 4.584000 | 116.909100 |
| 9 | T3E_0245 | Sabah | Kalabakan | Km 90 Kalabakan-Nabawan | 4.595700 | 116.823700 |
| 10 | T3E_0246 | Sabah | Kalabakan | Km 100 Kalabakan-Nabawan | 4.617600 | 116.754800 |
| 11 | T3E_0247 | Sabah | Kalabakan | Km 110 Kalabakan-Nabawan | 4.611700 | 116.679300 |
| 12 | T3E_0248 | Sabah | Tawau | Balong Cocos | 4.375910 | 118.040090 |
| 13 | T3E_0249 | Sabah | Tawau | Kretam Kalabakan | 4.299000 | 117.468000 |
| 14 | T3E_0250 | Sabah | Tawau | Kalabakan BS Estate | 4.690000 | 117.300000 |
| 15 | T3E_0251 | Sabah | Tawau | Gunung Rara | 4.534200 | 116.827700 |

Cluster 21

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|---------|------------|--|----------|------------|
| 1 | T3E_0252 | Sarawak | Lubok Antu | Nanga Uyau, Nanga Patoh, Kekan | 1.351836 | 111.813739 |
| 2 | T3E_0253 | Sarawak | Lubok Antu | Serubah, Rumah Joseph, Rumah Empaok, Lubok Subang | 1.229980 | 111.782560 |
| 3 | T3E_0254 | Sarawak | Lubok Antu | Rumah Marian | 1.110890 | 111.730180 |
| 4 | T3E_0255 | Sarawak | Sri Aman | Nanga Murat | 1.338920 | 111.675310 |
| 5 | T3E_0256 | Sarawak | Sri Aman | Kampung Pulau, Kg. Maruji, Nanga Pelo, Nanga Kujuh | 1.419459 | 111.675457 |
| 6 | T3E_0257 | Sarawak | Sri Aman | Rumah Lait, Rumah Beji, Rumah Sebangkoi, Rumah Gunong | 1.044826 | 111.630065 |
| 7 | T3E_0258 | Sarawak | Sri Aman | Rumah Silit, Rumah Philip, Rumah Edward | 1.055000 | 111.591499 |
| 8 | T3E_0259 | Sarawak | Sri Aman | Rumah Richard, Rumah Sanggau, Rumah Jawan, road to Paku | 1.035529 | 111.581660 |
| 9 | T3E_0260 | Sarawak | Sri Aman | Rh. Tinchin, Rumah Sumel, Rh. Bruen, Rh. Ami | 1.275170 | 111.207938 |
| 10 | T3E_0261 | Sarawak | Sri Aman | Rh. Abdul Rahman, Rumah Alam, Rumah Bager, SALCRA plantation | 1.145763 | 110.994807 |
| 11 | T3E_0262 | Sarawak | Sri Aman | Kampung Gua Dalam, Sri Aman highway | 1.083410 | 111.279029 |
| 12 | T3E_0263 | Sarawak | Sri Aman | Rumah Tunggang, Engkeramut | 1.049920 | 111.385310 |
| 13 | T3E_0264 | Sarawak | Sri Aman | Skrang Betong Road | 1.350300 | 111.616520 |
| 14 | T3E_0265 | Sarawak | Sri Aman | Tanjung Bijat, Kampung Bakong | 1.337831 | 111.379310 |
| 15 | T3E_0266 | Sarawak | Sri Aman | Kampung Seduku, Lingga - Sri Aman road | 1.384649 | 111.240265 |
| 16 | T3E_0267 | Sarawak | Sri Aman | Sri Aman Lidong road, Rumah Rambai | 1.279404 | 111.532214 |

Cluster 22

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|---------|------------|--|----------|------------|
| 1 | T3E_0268 | Sarawak | Betong | Rumah Beduru, Teberu, Rumah Pelandok, Pelawa, Jalan Ulu Paku | 1.518100 | 111.517290 |
| 2 | T3E_0269 | Sarawak | Betong | Jambu Kerapa, Rumah Giri, Rantau Rayang, Nanga Bair, Rumah Panjang Jambu | 1.576203 | 111.741428 |
| 3 | T3E_0270 | Sarawak | Betong | Kampung Manggut | 1.512389 | 111.346946 |
| 4 | T3E_0271 | Sarawak | Betong | Rumah Philip Mujah, Rumah Renang, Rumah Sambang | 1.569890 | 111.474910 |

| | | | | | | |
|----|----------|---------|--------|-------------------------------------|----------|------------|
| 5 | T3E_0272 | Sarawak | Betong | Nanga Bayor, Ulu Rimbak, Nanga Pek | 1.636882 | 111.508661 |
| 6 | T3E_0273 | Sarawak | Betong | Kg. Setambak, Hilir, Setambak Hulu | 1.427213 | 111.463742 |
| 7 | T3E_0274 | Sarawak | Betong | Rumah Dau, Rumah Ali, Rumah Ringkai | 1.520040 | 111.659710 |
| 8 | T3E_0275 | Sarawak | Betong | Kampung Tuie, Kampung Dit | 1.537786 | 111.357188 |
| 9 | T3E_0276 | Sarawak | Betong | Kampung Srui, Betong Suri road | 1.530680 | 111.448670 |
| 10 | T3E_0277 | Sarawak | Betong | Kampung Supa, Kampung Medang | 1.504519 | 111.283341 |
| 11 | T3E_0278 | Sarawak | Betong | Kampung Serabang, Ulu Dit | 1.574835 | 111.347175 |

Cluster 23

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|---------|------------|---|----------|------------|
| 1 | T3E_0279 | Sarawak | Saratok | Empayang Atas, Empayang Baroh, Empayang Pasir | 1.871900 | 111.130050 |
| 2 | T3E_0280 | Sarawak | Saratok | Lubok Kerukoh, Rumah Lee, Rumah Jilan, Rumah Tangan | 1.840032 | 111.455025 |
| 3 | T3E_0281 | Sarawak | Saratok | Rumah Sabai, Nanga Derau, Sungai Babang | 1.731363 | 111.468572 |
| 4 | T3E_0282 | Sarawak | Saratok | Rumah Sandai, Rumah Budin, Rumah Kenchendai | 1.853440 | 111.495110 |
| 5 | T3E_0283 | Sarawak | Saratok | Rumah Jawi, Rumah Unti, Rumah Inggot, Rumah Sang | 1.700516 | 111.591918 |
| 6 | T3E_0284 | Sarawak | Saratok | Rumah Gimang, Rumah Ganya, Rumah Jangi | 1.872750 | 111.469474 |
| 7 | T3E_0285 | Sarawak | Saratok | Lubok Kepayang, Rumah Medol, Rumah Semina | 1.811882 | 111.383219 |
| 8 | T3E_0286 | Sarawak | Saratok | Rumah Nyelang | 1.789754 | 111.295374 |
| 9 | T3E_0287 | Sarawak | saratok | Simpang saratok, highway | 1.787708 | 111.356636 |

Cluster 24

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|---------|------------|--|----------|------------|
| 1 | T3E_0288 | Sarawak | Julau | Rumah Ayub, Rumah Enting, Rumah Nyandang | 1.961170 | 111.788200 |
| 2 | T3E_0289 | Sarawak | Julau | SK Nanga Pedanum, Pakan-Pedanum road | 1.913995 | 111.724425 |

| | | | | | | |
|----|----------|---------|-------|---|----------|------------|
| 3 | T3E_0290 | Sarawak | Julau | SK Nanga Meluan, Rumah Chuat,á Rumaah Randi, Rumah Genta | 1.871424 | 111.927439 |
| 4 | T3E_0291 | Sarawak | Julau | Rumah Gani, Rumah Amba,á Rumah Nyikoh | 1.754047 | 111.951088 |
| 5 | T3E_0292 | Sarawak | Julau | Rumah Eddy Madang, Julau Pakan road | 1.879480 | 111.803440 |
| 6 | T3E_0293 | Sarawak | Matu | Feri Station, Igan - Matu road | 2.829350 | 111.645970 |
| 7 | T3E_0294 | Sarawak | Matu | Kampung Kuala Matu | 2.706803 | 111.466648 |
| 8 | T3E_0295 | Sarawak | Pakan | Rumah Beracok, Simpang Wak | 1.906150 | 111.643270 |
| 9 | T3E_0296 | Sarawak | Pakan | Rumah George, Rumah Racak, Rumah Empati, Rumah Chabu | 1.821085 | 111.645396 |
| 10 | T3E_0297 | Sarawak | Pakan | Nanga Dayu, Rumah Tinding, Rumah Samak, Rumah Senabong | 1.734634 | 111.653662 |
| 11 | T3E_0298 | Sarawak | Pakan | SK Sungai Babai- Pakan road, Rumah Anyi | 1.921320 | 111.640950 |
| 12 | T3E_0299 | Sarawak | Pakan | Rumah Dana | 1.794604 | 111.853262 |

Cluster 25

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|---------|------------|--|----------|------------|
| 1 | T3E_0300 | Sarawak | Dalat | Kg. Bungan Kecil, Kg. Bungan Besar | 2.658960 | 111.812260 |
| 2 | T3E_0301 | Sarawak | Dalat | Kampung Medong Hilir, Medong Hulu | 2.684436 | 111.938791 |
| 3 | T3E_0302 | Sarawak | Dalat | Kampung Teh, Ksampung Terus | 2.822960 | 111.897320 |
| 4 | T3E_0303 | Sarawak | Kanowit | Durin-Kanaowit road | 2.123850 | 112.070160 |
| 5 | T3E_0304 | Sarawak | Kanowit | Rumah Lambai, Rumah Minda, Ladang Mapai | 2.108020 | 112.298100 |
| 6 | T3E_0305 | Sarawak | Kanowit | Nanga Jagau Settlement | 1.881254 | 112.310220 |
| 7 | T3E_0306 | Sarawak | Kanowit | Nanga Dap, Rumah Jelan, Rumah Michael, Rumah Bantin | 2.050489 | 112.322621 |
| 8 | T3E_0307 | Sarawak | Mukah | Rumah Sandin, Rumah Janin, Rumah Lili, Rumah Telajan | 3.023574 | 112.623789 |
| 9 | T3E_0308 | Sarawak | Mukah | Matadeng - Kuala Balingian road | 2.988800 | 112.412570 |
| 10 | T3E_0309 | Sarawak | Mukah | Kampung Sekai | 2.837940 | 112.198240 |
| 11 | T3E_0310 | Sarawak | Mukah | Mukah - Selangau road | 2.828790 | 112.333090 |
| 12 | T3E_0311 | Sarawak | Sibu | Nanga Tutus, Ladang Sawit | 2.511974 | 111.850440 |
| 13 | T3E_0312 | Sarawak | Sibu | Tg. Penasu, Batu Burak | 2.378270 | 111.795950 |
| 14 | T3E_0313 | Sarawak | Sibu | Rumah Malim, Rumah Takin, Rumah Jentau | 2.464735 | 112.065473 |
| 15 | T3E_0314 | Sarawak | Sibu | Tamin, Rumah Nyawai, Rumah Dingun | 2.510139 | 112.073013 |

Cluster 26

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|---------|------------|--|----------|------------|
| 1 | T3E_0315 | Sarawak | Belaga | Tegulang Settlement (Murum Hydro Settlement) | 2.695830 | 114.191670 |
| 2 | T3E_0316 | Sarawak | Belaga | Metalun Settlement (Murum Hydro Settlement) | 2.656790 | 114.735080 |
| 3 | T3E_0317 | Sarawak | Belaga | Murum Dam | 2.633199 | 114.363074 |
| 4 | T3E_0318 | Sarawak | Kapit | Pekan Nanga Merit | 2.289690 | 113.129270 |
| 5 | T3E_0319 | Sarawak | Kapit | Skim Tunoh Settlement | 2.050120 | 113.674790 |
| 6 | T3E_0320 | Sarawak | Kapit | Punan Ba, Nanga Ibun | 2.369708 | 113.337515 |
| 7 | T3E_0321 | Sarawak | Kapit | Nanga Entawau, Rumah Nabau, Rumah Tijai, Nanga Merirai | 1.823466 | 113.707821 |
| 8 | T3E_0322 | Sarawak | Kapit | Rumah Sait, Rumah Kupa, Rumah mamat, Rumah Jaing | 1.798668 | 113.347300 |
| 9 | T3E_0323 | Sarawak | Kapit | Rumah Masam, Rumah Ugak, Rumah Enggam | 2.074601 | 113.249697 |
| 10 | T3E_0324 | Sarawak | Song | Rumah Taboh, Nanga Embuau, Rumah Geruma | 2.002249 | 112.656970 |
| 11 | T3E_0325 | Sarawak | Song | Nanga Bangkit, Rumah Sebastian, Arumah Janang | 1.798328 | 112.645771 |
| 12 | T3E_0326 | Sarawak | Song | SK Lubok Bedil, RumahJinggai, Rumah Rantai | 1.855606 | 112.617649 |
| 13 | T3E_0327 | Sarawak | Song | Nanga Engkuah | 1.934360 | 112.534762 |

Cluster 27

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|---------|------------|--|----------|------------|
| 1 | T3E_0328 | Sarawak | Bintulu | Coastal Highway, plantation camp #1 | 3.330272 | 113.219538 |
| 2 | T3E_0329 | Sarawak | Bintulu | Coastal Highway, plantation camp #2 | 3.358303 | 113.290065 |
| 3 | T3E_0330 | Sarawak | Bintulu | Coastal Highway, plantation camp #3 | 3.442438 | 113.371635 |
| 4 | T3E_0331 | Sarawak | Bintulu | Coastal Highway, #4 Samalaju Industrial Park | 3.564435 | 113.381952 |
| 5 | T3E_0332 | Sarawak | Bintulu | Kampung Maskat, Rumah Mandau, Rumah Agoh | 3.206590 | 113.431740 |
| 6 | T3E_0333 | Sarawak | BIntulu | Rumah Libau, Rumah Bili, Rumah Mujah | 3.042390 | 113.487550 |
| 7 | T3E_0334 | Sarawak | Bintulu | Coastal highway #5 | 3.727266 | 113.524849 |
| 8 | T3E_0335 | Sarawak | Niah Suai | Higwhway Bekenu Miri-Lambir, Peninjau | 4.001225 | 113.893499 |

| | | | | | | |
|----|----------|---------|-----------|--|----------|------------|
| 9 | T3E_0336 | Sarawak | Niah-Suai | Kg Bungai | 4.064320 | 113.792963 |
| 10 | T3E_0337 | Sarawak | Niah-Suai | Kg. Selanyau, Kampung Danau | 4.096180 | 113.850380 |
| 11 | T3E_0338 | Sarawak | Niah-Suai | Rh. Lingu, Rumah Tinggi, Rh. Jeli, Rh Duat, Hulu Sibuti, Sg. Pakut | 3.917306 | 113.938914 |

Custer 28

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|---------|------------|--|----------|------------|
| 1 | T3E_0339 | Sarawak | Marudi | Uma Bawang, LongTepen, Long Lunyim | 3.605580 | 114.422650 |
| 2 | T3E_0340 | Sarawak | Marudi | Long Banga, Long Lamai | 3.202750 | 115.369390 |
| 3 | T3E_0341 | Sarawak | Marudi | Long Bedian, Long Atip, Sungai Tenyok | 3.793870 | 114.737890 |
| 4 | T3E_0342 | Sarawak | Marudi | Long Jegan | 3.597187 | 114.126989 |
| 5 | T3E_0343 | Sarawak | Marudi | Long Jekitan, Long Bee, Ba Purau, Long Mekabar, Long Tikan | 2.876599 | 114.930280 |
| 6 | T3E_0344 | Sarawak | Marudi | Long Kevok, Long Latei | 3.799621 | 114.910438 |
| 7 | T3E_0345 | Sarawak | Marudi | Long Lellang A, Long Lellang B | 3.421039 | 115.159634 |
| 8 | T3E_0346 | Sarawak | Marudi | Long Loyang, Long Batan, Apau Gun, Long Aya, Rumah Ugak Kalang | 3.448180 | 114.122560 |
| 9 | T3E_0347 | Sarawak | Marudi | Longá San, Long Liam Keliman, Long Sektaong, Long Tap, Sungai Akah | 3.303460 | 114.788580 |
| 10 | T3E_0348 | Sarawak | Marudi | Long Seridan | 3.976400 | 115.069270 |
| 11 | T3E_0349 | Sarawak | Marudi | Long Sobeng, Tinjar, Long Dunin, Long Pejawai | 3.324640 | 114.281050 |
| 12 | T3E_0350 | Sarawak | Marudi | Pa Dalih, Pa Mada | 3.550000 | 115.550000 |
| 13 | T3E_0351 | Sarawak | Marudi | Rumah Jugah Anyi, Rumah Nyala Kedit, Sungai Belasoi | 4.078419 | 114.378425 |
| 14 | T3E_0352 | Sarawak | Marudi | Rumah Entika, Rumah Hillary, Rumah Undak, Rumah Lansam | 4.128953 | 114.347906 |
| 15 | T3E_0353 | Sarawak | Marudi | Rumah Sering, Ladang Bunut | 3.820100 | 114.300469 |
| 16 | T3E_0354 | Sarawak | Marudi | Long Pila | 3.483587 | 114.428793 |

Cluster 29

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|---------|------------|--|----------|------------|
| 1 | T3E_0355 | Sarawak | Lawas | Ba Kelalan highland | 3.983230 | 115.619330 |
| 2 | T3E_0356 | Sarawak | Lawas | Kampung Awat-Awat, Main Road Trusan-Awat-Awat | 4.947020 | 115.230780 |
| 3 | T3E_0357 | Sarawak | Lawas | Long Semado, Kg Punang Trusan | 4.235880 | 115.589550 |
| 4 | T3E_0358 | Sarawak | Lawas | Long Sukang, Long Lutok | 4.552720 | 115.490900 |
| 5 | T3E_0359 | Sarawak | Lawas | Kampung Pengaleh | 4.827610 | 115.449036 |
| 6 | T3E_0360 | Sarawak | Lawas | Kampung Bukit Naga, Kampung Sulai, Kudong | 4.875600 | 115.356296 |
| 7 | T3E_0361 | Sarawak | Limbang | Rumah Agih, Rumah Insungai, Rumah Kuala Medalam, Melaban | 4.397670 | 114.902480 |
| 8 | T3E_0362 | Sarawak | Limbang | Kampung Gadong, Kampung Buangabai | 4.771243 | 114.938144 |
| 9 | T3E_0363 | Sarawak | Limbang | SK Ulu Lubai, Nanga Merit, Rumah Dalie, Klinik Nanga Merit | 4.539255 | 114.973767 |

Cluster 30

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUD E |
|-----|----------|---------|------------|--|----------|------------|
| 1 | T3E_0364 | Sarawak | Bau | Kg. Skio, Segubang, Seromah, Sogo | 1.384680 | 110.224700 |
| 2 | T3E_0365 | Sarawak | Bau | Kg. Stass Kecil, Kg. Stass Besar, Kg. Skibang, | 1.396140 | 110.002580 |
| 3 | T3E_0366 | Sarawak | Bau | Kg. Suba Buan, Taiton, Suba Baru, Kg. Boring | 1.400750 | 110.102930 |
| 4 | T3E_0367 | Sarawak | Bau | Bengoh Settlement, Plaman Skio | 1.340722 | 110.223617 |
| 5 | T3E_0368 | Sarawak | Kuching | Kg. Bradek, Kg Semilang, Kg. Tiang Api | 1.609460 | 110.504010 |
| 6 | T3E_0369 | Sarawak | Kuching | Kg. Duras | 1.360580 | 110.389750 |
| 7 | T3E_0370 | Sarawak | Lundu | Kg. Serabang, Telok Melano | 1.993250 | 109.655000 |
| 8 | T3E_0371 | Sarawak | Lundu | Jalan Lundu - Sampadi | 1.625941 | 109.922440 |
| 9 | T3E_0372 | Sarawak | Lundu | Kampung Kandai, Engkeranji | 1.570684 | 109.775447 |
| 10 | T3E_0373 | Sarawak | Lundu | Kampung Bwelungei Besar, Belungei Kecil | 1.770541 | 109.835011 |
| 11 | T3E_0374 | Sarawak | Padawan | Kg. Sadir, Kg. Annah Semuti, Kg. Tindu/Sibakar | 1.101940 | 110.281560 |
| 12 | T3E_0375 | Sarawak | Padawan | Kg. Kakas, Kg. Kiding, Kg. Tabak, Kg. Assom | 1.190050 | 110.213990 |

Cluster 31

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUDE |
|-----|----------|---------|------------|---|----------|------------|
| 1 | T3E_0376 | Sarawak | Daro | Kampung Tebaan Besar, Tebaan Kecil | 2.458469 | 111.532217 |
| 2 | T3E_0377 | Sarawak | Daro | Tanjung Manis - Sibul Road #1 | 2.269020 | 111.436260 |
| 3 | T3E_0378 | Sarawak | Daro | Tanjung Manis - Sibul Road #2 | 2.231730 | 111.384499 |
| 4 | T3E_0379 | Sarawak | Daro | Tanjung Manis - Sibul Road #3 | 2.280417 | 111.557215 |
| 5 | T3E_0380 | Sarawak | Daro | Kampung Paloh | 2.413068 | 111.255911 |
| 6 | T3E_0381 | Sarawak | Sarikei | Rumah Jawa, Rumah Mudam, Rumah Lanyau | 2.002470 | 111.389340 |
| 7 | T3E_0382 | Sarawak | Sarikei | Rumah Nanang, Nisau, Rumah Jarin | 1.989741 | 111.514905 |
| 8 | T3E_0383 | Sarawak | Sarikei | Rumah Sigat, Giring, Gundi, Rumah Meringgai | 2.082685 | 111.438581 |
| 9 | T3E_0384 | Sarawak | Sarikei | Rumah Nyuka, Rumah Girie, Rumah Sandai | 1.943836 | 111.503424 |
| 10 | T3E_0385 | Sarawak | Sarikei | SJK Hua Kee, Rumah Mulong, Rumah Clement, Rumah Sumbang | 2.003805 | 111.583660 |
| 11 | T3E_0386 | Sarawak | Sarikei | Rumah Jantan, Rumah Sujang, Rumah Usay, Rumah Andit | 2.054722 | 111.406008 |

Cluster 32

| NO. | SITE ID | STATE | USP TARGET | COVERAGE OBJECTIVE | LATITUDE | LONGITUDE |
|-----|----------|---------|------------|--|----------|------------|
| 1 | T3E_0387 | Sarawak | Serian | Kg. Lanchang, Kg. Jenan, Kg. Pesah | 1.156083 | 110.487238 |
| 2 | T3E_0388 | Sarawak | Serian | Kg. Karan Poneg, Kg. Koran Padang | 1.088910 | 110.546530 |
| 3 | T3E_0389 | Sarawak | Serian | Kg. Mongkos, Kg. Mujat | 0.885510 | 110.591000 |
| 4 | T3E_0390 | Sarawak | Serian | Kg. Paon Gahat, Pahan Rimo, Kerangan Ngurak, Palm Oil Mill | 0.960435 | 110.667867 |
| 5 | T3E_0391 | Sarawak | Serian | Kg. Resak, Kg. Peridan, Kg. Sengai Mawang | 1.048390 | 110.579660 |
| 6 | T3E_0392 | Sarawak | Serian | Kg. Reteh Mawang, Reteh Plaman | 1.068700 | 110.449720 |
| 7 | T3E_0393 | Sarawak | Serian | Kg. Sejijak Plaman, Sejijak Mawang, Sejijak Kabuhu | 1.066640 | 110.350150 |
| 8 | T3E_0394 | Sarawak | Serian | Kg. Semada Mawang, Semada Belatok, Kg. Tapang Lebat | 1.102080 | 110.806250 |
| 9 | T3E_0395 | Sarawak | Serian | Kg. Kranji A, Kg. Kranji B, Kg. Tapang Lemaung, Kg. Linsat | 0.968553 | 110.720477 |
| 10 | T3E_0396 | Sarawak | Serian | Kg. Temong Mawang, Kg. Tepoi, Kg. Nurul Huda | 1.052716 | 110.303290 |

| | | | | | | |
|----|----------|---------|----------|--------------------------------------|----------|------------|
| 11 | T3E_0397 | Sarawak | Simunjan | Kampung Mentu, Rumah Ligok,Muding | 1.265419 | 111.029811 |
| 12 | T3E_0398 | Sarawak | Simunjan | Kg. Lubok Punggor | 1.339938 | 110.690109 |
| 13 | T3E_0399 | Sarawak | Simunjan | Kg. Tungkah | 1.540710 | 110.789080 |
| 14 | T3E_0400 | Sarawak | Simunjan | Simunjan _ Kenion Main road | 1.315065 | 110.861044 |

(the rest of this page has been intentionally left blank)

APPENDIX 2 – SCOPE OF WORK

A) PART 1 : Installation of Tower and Infrastructure

A1. The facilities to be provided shall include the following components:

| NO. | CATEGORY | ITEM |
|------------|-----------------|---|
| 1 | A | Self-Supporting Tower |
| 2 | | Fall Arrest System |
| 3 | | Aviation Light |
| 4 | | Lightning Protection System |
| 5 | | Anti-Climb System |
| 6 | | Tower Vertical Cable Gantry |
| 7 | | Tower Structure Foundation |
| 8 | B | Concrete Plinth for Cabin / Outdoor BTS and Genset System |
| 9 | | Basic Grounding and Earthing Systems |
| 10 | | Civil Works and Drainage System |
| 11 | | Fencing System & Entrance Gate |
| 12 | | Access Road |

(the rest of this page has been intentionally left blank)

**B) PART 2 : Installation of Equipment and Electronics
(Radio Access Network (RAN) Sharing Approach)**

B1. The equipment to be provided shall include the following components:

| NO. | ITEM |
|-----|--|
| 1 | Base Transceiver Station (BTS) Equipment |
| 2 | Backhaul via Microwave, VSAT or Fiber |
| 3 | Antenna and Feeder System |
| 4 | Antenna Support System |
| 5 | AC Power Supply |
| 6 | Feeder Pillar with Meter Panel |
| 7 | AC Main Distribution Board Systems – Outdoor or Indoor Type |
| 8 | DC Power System Including Back Up Batteries |
| 9 | Outdoor Cabinet or Cabin Complete With Accessories |
| 10 | Alarm Monitoring System |
| 11 | Any Necessary Upgrades or Additional Equipment As Required In The Core Network Inclusive For The Contingency Plan for Natural Disasters Situation Like Flooding and Etc. |
| 12 | Horizontal Cable Gantry |

B2) Cabin shall be deployed only at collector site. As for spur site, outdoor cabinet shall be used.

B3) As for the antenna, the required configuration is 3 sector panel antennas with a separation of 60 to 120 degrees between the antennas.

B4) For satellite links, technical measures must be implemented to handle customer expectation with respect to propagation delay and latency.

(the rest of this page has been intentionally left blank)

APPENDIX 3 - REGISTRATION OF INTEREST FORM

[To be printed on Interested Licensee's Letterhead]

REGISTRATION OF INTEREST

To: **RURAL DEVELOPMENT DIVISION
Suruhanjaya Komunikasi dan Multimedia Malaysia
Ground Floor, Prima Avenue 1,
Block 3507, Jalan Teknokrat 5,
63000 Cyberjaya, Selangor**

Date:

Dear Sir,

UNIVERSAL SERVICE PROVISION - REGISTRATION OF INTEREST TO BE UNIVERSAL SERVICE PROVIDER FOR THE PROVISION OF PUBLIC CELLULAR SERVICE

We refer to the "*Invitation to Register Interest as Universal Service Provider – Ref. no. "MCMC/RDD/PDD(1)/T3_Extn(P1)/TCA/03/14(01)"*" ("the Invitation") issued by MCMC on [to insert date].

We hereby register our interest to be the universal service provider pursuant to subregulation 5(1) of the Communications and Multimedia (Universal Service Provision) Regulations 2002 ("the Regulations") in the following universal service targets :

| Cluster | Scope of Work |
|--------------------------------------|-----------------------------------|
| 1. [<i>Insert the Cluster No.</i>] | [<i>PART 1 and / or PART 2</i>] |
| 2. [<i>Insert the Cluster No.</i>] | [<i>PART 1 and / or PART 2</i>] |
| 3. [<i>Insert the Cluster No.</i>] | [<i>PART 1 and / or PART 2</i>] |
| 4. | |

We are also aware that pursuant to subregulation 6(1) of the Regulations, we are legally obliged to submit the draft universal service plan(s) for the universal service targets chosen above on or before the time frame specified in the Invitation.

Signed for and on behalf of

.....
by [*to be signed by the Chief Executive Officer or
any other person authorized by the Company*]

APPENDIX 4 – SUMMARY OF LICENSEE INFORMATION

1. Full Company's Name:
2. Full Address:
3. E-Mail Address:
4. Homepage/Website:
5. Status of Incorporation: Sole Proprietor / Partnership / Enterprise /Sendirian Berhad / Berhad / Private Limited / Limited
6. Date Incorporated:
7. Date of Operation:
8. Paid up Capital (RM):
9. Status of Licences:
 - a) NFP(I): Yes / No
 - b) NSP(I): Yes / No
 - c) ASP(I): Yes / No
10. Collaboration Partner (If applicable) :
11. Number of Employees:
12. Bumiputera Status: Yes / No
13. Financial Details:
 - a) Asset (RM):
 - b) Liability (RM):
 - c) Worth (Asset – Liability) (RM):

Note:

The Interested Licensee is required to enclose:

- the financial statement and audited account for the last 2 or 1 financial year in order to support the above information;
- a copy of individual license and it's conditions;
- track records (Interested Licensees and Collaboration Partner (if applicable)).

**APPENDIX 5- SUMMARY OF TECHNICAL PROPOSAL FOR
(CLUSTER #, Scope of Work: Part #)- where applicable**

PART 1

| USP TARGET | SITE NAME | SITE ID | SITE LOCATION | COVERAGE OBJECTIVE | TOWER TYPE AND HEIGHT | SITE CATEGORY (COLLECTOR / SPUR) | CABIN SIZE | SITE FOOTPRINT | COMPLETION DATE |
|------------------------|-----------|---------|---------------|--------------------|-----------------------|----------------------------------|------------|----------------|-----------------|
| (Name of USP Target 1) | Site A | | | | | | | | |
| | Site B | | | | | | | | |
| | ... | | | | | | | | |
| (Name of USP Target 2) | Site A | | | | | | | | |
| | Site B | | | | | | | | |
| | | | | | | | | | |
| (Name of USP Target 3) | Site A | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

PART 2

| USP TARGET | SITE NAME | SITE ID | SITE LOCATION | COVERAGE OBJECTIVE | TOWER TYPE AND HEIGHT | AC & DC POWER SUPPLY | SITE CATEGORY | SITE CAPACITY | INTER OPERABILITY & INTER CONNECTION | EQUIPMENT CONFIGURATION | COMPLETION DATE |
|------------------------|-----------|---------|---------------|--------------------|-----------------------|----------------------|---------------|---------------|--------------------------------------|-------------------------|-----------------|
| (Name of USP Target 1) | Site A | | | | | | | | | | |
| | Site B | | | | | | | | | | |
| | ... | | | | | | | | | | |
| (Name of USP Target 2) | Site A | | | | | | | | | | |
| | Site B | | | | | | | | | | |
| | | | | | | | | | | | |
| (Name of USP Target 3) | Site A | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

**APPENDIX 6 - SUMMARY OF FINANCIAL PROPOSAL FOR
(CLUSTER # Scope Of Work: Part #)- where applicable**

PART 1

| USP TARGET | SITE NAME | SITE ID | PRELIMINARIES | TOWER | SITE INFRASTRUCTURE AND ANCILLARIES | ADDITIONAL WORK (if any) | TOTAL (RM) |
|------------------------|-----------|---------|---------------|-------|-------------------------------------|--------------------------|------------|
| (Name of USP Target 1) | Site A | | | | | | |
| | Site B | | | | | | |
| | ... | | | | | | |
| (Name of USP Target 2) | Site A | | | | | | |
| | Site B | | | | | | |
| | ... | | | | | | |
| ... | | | | | | | |
| TOTAL (RM) | | | | | | | |

PART 2

| USP TARGET | SITE NAME | SITE ID | PRELIMINARIES | BTS EQUIPMENT | BACKHAUL | ANTENNA SYSTEM | AC & DC POWER SUPPLY | ALARM SYSTEM | INTER OPERABILITY & INTER CONNECTION | NECESSARY UPGRADES OR ADDITIONAL EQUIPMENT (IF REQUIRED) | TOTAL (RM) |
|------------------------|-----------|---------|---------------|---------------|----------|----------------|----------------------|--------------|--------------------------------------|--|------------|
| (Name of USP Target 1) | Site A | | | | | | | | | | |
| | Site B | | | | | | | | | | |
| | ... | | | | | | | | | | |
| (Name of USP Target 2) | Site A | | | | | | | | | | |
| | Site B | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| TOTAL (RM) | | | | | | | | | | | |

(the rest of this page has been intentionally left bla

APPENDIX 7 - DETAILS OF FINANCIAL PROPOSAL (PER SITE)

PART 1

CLUSTER :
USP TARGET:
SITE NAME :
SITE ID :

Bill of Quantity for 76m Height Tower (20m x 18m footprint)

| ITEM | DESCRIPTION | | UNIT | QTY | UNIT COST | TOTAL (RM) |
|-----------------------------------|--|--|------|-----|-----------|------------|
| 1. PRELIMINARIES | | | | | | |
| A | General | | | | | |
| | 1 | Provision for Insurance during construction period | LS | | | |
| B | Site Planning & Design | | | | | |
| | 1 | Site Survey | LS | | | |
| | 2 | Services of licensed surveyor for setting out of the Site Boundary | LS | | | |
| | 3 | Soil investigation | LS | | | |
| | 4 | C&S, M&E Consulting Engineer Services & Design including PE Endorsement | LS | | | |
| C | Site Acquisition | | | | | |
| | 1 | Deposits and Preliminary rental charges to landowner (prior to official site handover to PART 2) - maximum 3 months + 2 months deposit | LS | | | |
| D | Site Management | | | | | |
| | 1 | Site Monitoring and Inspection | LS | | | |
| | 2 | Monthly Reporting & Meetings | LS | | | |
| E | Permitting & Authority Fees | | | | | |
| | 1 | OSA Fees, Local Authority fee/charges, permit fees and other fees deemed necessary. | LS | | | |
| | TOTAL PRELIMINARIES | | | | | |
| 2. TOWER & ACCESSORIES | | | | | | |
| A | Tower Supply | | | | | |
| | 1 | Supply, Delivery & Install 3 Legged Tower inclusive of: | LS | | | |
| | a | Vertical Gantry | | | | |
| | b | Fall Arrest System | | | | |
| | c | Stainless Steel Lightning Arrestor (3m x 16mm dia) | | | | |

| ITEM | DESCRIPTION | | UNIT | QTY | UNIT COST | TOTAL (RM) |
|----------|---|---|------|-----|-----------|------------|
| | d | Anti-Climb devices consisting of cage & barb wire | | | | |
| | e | Brackets for Aviation lights & Lightning Arrestor | | | | |
| | f | Tower Erection | | | | |
| | g | Paint | | | | |
| | h | Delivery | | | | |
| | i | PE Endorsement | | | | |
| B | Tower Earthing & Plates | | | | | |
| | 1 | To supply, install and commission tower grounding system: | | | | |
| | a | Cu ground plate size 1200mm x 1200mm x 3mm thick at each leg | pc | | | |
| | b | Supply and install 355mm x 100mm x 6mm Cu busbar c/w 50mm pvc cable in 50mm diameter GI pipe at 3 levels of the tower | pc | | | |
| | c | 70mm Cu Cable with one end cadweld to tower leg with expose cable run in 50mm diameter galvanised iron pipe and the other and cadweld to the cu plate | LS | | | |
| C | Tower Foundation | | | | | |
| | Reinforced Concrete Pad Foundation.To supply manpower, machineries, necessary tools and equipments for normal foundation excavation up to 3m deep, place formworks, timbering(if necessary), anchor bolt setting as per requirement, supply and placing of minimum G30 concrete complete with reinforcement bars, dewatering, back filling, compaction including all necessary works. | | | | | |
| | 1 | Excavation for foundation maximum depth not exceeding 4m deep, backfill and remove surplus spoil and deposit, spread and level on site as specified | m3 | | | |
| | 2 | Concrete: | | | | |
| | a | Lean Concrete Grade 15P for foundation base - 75mm | m3 | | | |
| | b | Concrete Grade 30P as specified in Foundation, Stump & Tie Beam | m3 | | | |
| | 3 | Steel Bars in reinforcement to concrete works generally including all cutting, bending and placing in position | | | | |
| | a | High Tensile - Pad Footing, Stump & Tie Beam | Kg. | | | |
| | b | Mild Steel - Stump & tie Beam | Kg. | | | |
| | 4 | Sawn Formwork | | | | |
| | a | •To sides of foundation, stump & tie beam | M2 | | | |
| | TOTAL TOWER | | | | | |

| ITEM | DESCRIPTION | | UNIT | QTY | UNIT COST | TOTAL (RM) |
|---|---|---|------|-----|-----------|------------|
| 3. SITE INFRASTRUCTURE AND ANCILLARIES | | | | | | |
| A | Site Clearance | | | | | |
| | 1 | Excavate oversite average 150mm deep to level off formation or reduce level. | M2 | 590 | | |
| B | Concrete Base | | | | | |
| | 1 | 200mm thk hardcore, one layer BRC A7 and 100mm thk grade 25 concrete over site - platform 24m x 20m | | | | |
| | 2 | 200mm Hardcore | M3 | 90 | | |
| | 3 | 100mm Concrete Grade 25P | M3 | 35 | | |
| | 4 | BRC A8 | M2 | 350 | | |
| C | Concrete Plinth For | | | | | |
| | 1 | Cabin / Outdoor base (size: 5.4m x 4.8m x 0.40m thk) | | | | |
| | a | 50mm thk lean Concrete Grade 15P for foundation base – 5.4 x 4.8 x 0.05 | M3 | 2 | | |
| | b | 400mm thk reinforced concrete (G30) – from platform level | M3 | 11 | | |
| | c | To supply and lay 1 layer BRC A7 reinforcement for concrete platform | M2 | 35 | | |
| | d | Sawn formwork | M2 | 9 | | |
| | e | 100m Dia, 1W PVC Duct | Nos | 1 | | |
| | f | Inspection Type A | Nos | 1 | | |
| | 2 | 2 x Genset c/w skid tank (7m x 3m x 0.2m thk) | | | | |
| | a | 50mm thk lean Concrete Grade 15P for foundation base | M3 | 1 | | |
| | b | 200mm thk.Reinforced concrete (G30) – from platform level | M3 | 4.5 | | |
| | c | To supply and lay 1 layer BRC A7 reinforcement for concrete platform | M2 | 28 | | |
| | d | Sawn formwork | M2 | 4 | | |
| | e | Inspection Type B | M2 | 4 | | |
| D | Premix Area / Rc Concrete (*To fill either Item 1 or Item 2) | | | | | |
| | *1 | 1st 30m Premix Access Road - 3m wide (1st 6m = 4.8m wide) | | | | |
| | a | 50mm thick sand spread, levelled and compacted to falls and chambers with an 8-ton roller | M2 | 105 | | |
| | b | 200mm (finished) thick crusher run base course | M2 | 105 | | |
| | c | 50mm asphaltic concrete wearing course | M2 | 105 | | |
| | d | Bituminous binder | M2 | 105 | | |

| ITEM | DESCRIPTION | | UNIT | QTY | UNIT COST | TOTAL (RM) |
|----------|---------------------------|--|------|-----|-----------|------------|
| | e | 75mm thick premix | M2 | 105 | | |
| | | | | | | |
| | *2 | 1st 30m RC Concrete Road - 3m wide | | | | |
| | a | 100mm hardcore | M2 | 105 | | |
| | b | 50mm lean concrete Grade 15P | M2 | 105 | | |
| | c | 100mm Concrete Grade 20P | M2 | 105 | | |
| | d | 1 layer mesh fabric A6 | M2 | 105 | | |
| E | Perimeter Drainage | | | | | |
| | 1 | 300mm width block drain thk including all necessary excavation | m | 30 | | |
| | 2 | To supply, excavate and construct 450mm x 450mm brickwall sump at as per drawings at suitable discharge point. The rate include lean concrete, concrete base complete with 1 layer cement mortar rendering to exposed brickwall as per drawings | Nos | 1 | | |
| | 3 | Soakway pit 1200mm dia 1500mm deep c/w retractable cover (where necessary) | Nos | 1 | | |
| F | Fence And Gate | | | | | |
| | 1 | Supply and install 2600mm high 50mm x 50mm x 3.3/2.8mm PVC coated galvanised mesh chain link fencing with 75mm x 75mm x 5mm thick angle and 50mm x 50mm x 5mm thick bracing post both embedded in and including 450mm x 450mm x 600mm deep concrete footing | m | 72 | | |
| | 2 | Extra Over for 4 strands barb wire on top | m | 76 | | |
| | 3 | Supply and install 2600mm (H) x 4000mm (W) 50 x 50 SWG 10 galvanised mild steel chain link fencing gate in two leaf complete, including 2 bolts with PVC pocket sleeves, stainless steel h/duty padlocks, hinges, concrete foundation, 500mm high bard wire and ets including all other related items. | LS | | | |
| | 4 | Supply and install 3600mm (H) x 150mm (ø) x 6mm (thk) steel pipe gate post both embedded in infill with concrete | LS | | | |
| G | Turfing | | | | | |
| | 1 | 1500mm closed turfing to surrounding fencing at site level (75mm thk) | M2 | 72 | | |
| H | Electrical Pit | | | | | |

| ITEM | DESCRIPTION | | UNIT | QTY | UNIT COST | TOTAL (RM) |
|--|--|--|------|-----|-----------|------------|
| | 1 | 450mm x 450mm Electrical Pit c/w retractable lifting handle (outdoor with hinges), inclusive necessary 100mm diameter PVC duct | No | 1 | | |
| I | Basic Grounding And Earthing System | | | | | |
| | 1 | To supply and install common earthing system (compound area) c/w copper tape, copper rod, G.I pipe 50mm and cadweld jointing | No | 1 | | |
| | 2 | To supply and install common earthing system (plinth) c/w copper tape, 3 units of MGB, vertical G.I pipe 50mm infill with concrete and cadweld jointing | No | 1 | | |
| | 3 | 300mm x 300mm Heavy Duty Earth Chamber | No | 3 | | |
| | 4 | 450mm x 475mm Inspection Pit c/w retractable lifting handle (outdoor with hinges), inclusive necessary 100mm diameter PVC duct | No | 2 | | |
| | 5 | To supply and install earthing system for feeder c/w vertical 50mm GI pipe infill with concrete, copper cable, MGB and proper connection to the common earthing system using copper clamp with hidrolic cramping | No | 1 | | |
| J | Compound Lighting | | | | | |
| | 1 | Supply and install 6m hot dipped Galvanised column c/w 250W floodlight 2nos per each c/w accessories) and u/g cable 6mm ² . | No | 4 | | |
| K | Aircraft Warning Light | | | | | |
| | 1 | Supply and install Solar LED Aircraft Warning Lights c/w ultra high intensity 100,000 hours life expectancy, equipped with built-in back battery. | No | 3 | | |
| | TOTAL SITE INFRASTRUCTURE AND ANCILLARIES | | | | | |
| 4. SITE INFRASTRUCTURE FOR NATURAL DISASTERS (to fill if necessary) | | | | | | |
| L | Concrete Plinth For | | | | | |
| | 1 | Cabin / Outdoor base (size: 5.4m x 4.8m x 0.70m thk) | | | | |
| | a | 50mm thk lean Concrete Grade 15P for foundation base – 5.4 x 4.8 x 0.05 | M3 | 2 | | |
| | b | 600mm thk reinforced concrete (G30) – from platform level | M3 | 11 | | |
| | c | To supply and lay 1 layer BRC A7 reinforcement for concrete platform | M2 | 35 | | |
| | d | Sawn formwork | M2 | 9 | | |
| | e | 100m Dia, 1W PVC Duct | Nos | 1 | | |

| ITEM | DESCRIPTION | | UNIT | QTY | UNIT COST | TOTAL (RM) |
|------|--|--|------|-----|-----------|------------|
| | f | Inspection Type B | Nos | 1 | | |
| | g | To supply and install "I" beam base (size: 4m x 0.2m x 0.2m x 0.01m thk) | Nos | 6 | | |
| | h | Concrete steps | Nos | 1 | | |
| | 2 | 2 x Genset c/w skid tank (7m x 3m x 0.7m thk) | | | | |
| | a | 50mm thk lean Concrete Grade 15P for foundation base | M3 | 1 | | |
| | b | 600mm thk.Reinforced concrete (G30) – from platform level | M3 | 4.5 | | |
| | c | To supply and lay 1 layer BRC A7 reinforcement for concrete platform | M2 | 28 | | |
| | d | Sawn formwork | M2 | 4 | | |
| M | Electrical Pit | | | | | |
| | 1 | 450mm x 450mm Electrical Pit c/w retractable lifting handle (outdoor with hinges), inclusive necessary 100mm diameter PVC duct | No | 1 | | |
| N | Basic Grounding And Earthing System | | | | | |
| | 1 | To supply and install common earthing system (compound area) c/w copper tape, copper rod, G.I pipe 50mm and cadweld jointing | No | 1 | | |
| | 2 | 300mm x 300mm Heavy Duty Earth Chamber | No | 3 | | |
| | 3 | 450mm x 475mm Inspection Pit c/w retractable lifting handle (outdoor with hinges), inclusive necessary 100mm diameter PVC duct | No | 2 | | |
| | 4 | To supply and install earthing system for feeder c/w 50mm GI pipe, copper cable, MGB and proper connection to the common earthing system | No | 1 | | |
| | TOTAL SITE INFRASTRUCTURE FOR NATURAL DISASTERS | | | | | |
| | SUMMARY | | | | | |
| | 1 | TOTAL PRELIMINARIES | | | | |
| | 2 | TOTAL TOWER | | | | |
| | 3 | TOTAL SITE INFRASTRUCTURE AND ANCILLARIES | | | | |
| | 4 | TOTAL SITE INFRASTRUCTURE FOR NATURAL DISASTERS (to fill if necessary) | | | | |
| | SUMMARY OF TOTAL PART 1 | | | | | |

PART 2

CLUSTER :
USP TARGET:
SITE NAME:
SITE ID:
SITE CATEGORY: (SPUR/COLLECTOR)

| NO | DESCRIPTION | UNIT | QTY | UNIT COST | TOTAL (RM) |
|-------------------------------------|---|----------|-----|-----------|------------|
| 1. PRELIMINARIES | | | | | |
| a | Insurance | | | | |
| | 1. Provision for Insurance during construction period | LS | 1 | | |
| b | Planning & Design | | | | |
| | 1. Technical Site Survey - Pre and Post Award | LS | 1 | | |
| | 2. RF & TX Audit | LS | 1 | | |
| | 3. Network Design | LS | 1 | | |
| c | Site Supervision and Management | | | | |
| | 1. Site Monitoring and Inspection | LS | 1 | | |
| | 2. Monthly Reporting & Meetings | LS | 1 | | |
| d | Double handling charges - subject to site condition | LS | 0 | | |
| | only applicable for sites not accessible by land | | | | |
| e | Deposit / Contribution Charges for incoming power supply | LS | 0 | | |
| TOTAL ITEM 1 : PRELIMINARIES | | | | | |
| | | | | | |
| 2. BTS EQUIPMENT / NODE B | | | | | |
| a | Supply of Complete BTS Equipment (2G and 3G) | per site | 1 | | |
| b | Installation, Commissioning & Integration | per site | 1 | | |
| c | Optimisation | per site | 1 | | |
| TOTAL ITEM 2 : BTS EQUIPMENT | | | | | |
| | | | | | |

| NO | DESCRIPTION | UNIT | QTY | UNIT COST | TOTAL (RM) |
|---|--|----------|-----|-----------|------------|
| 3. BACKHAUL (*To fill either Item a or Item b) | | | | | |
| *a | PDH Microwave System | | | | |
| | 1. Supply of Complete PDH Microwave System for Complete Link including necessary feeder cable, brackets and jumper. | per link | 1 | | |
| | 2. Frequency Scanning, physical LOS check, installation, commissioning & Integration of PDH Microwave System for complete link | per link | 1 | | |
| | 3. Supply and install complete antenna support system | set | 1 | | |
| *b | VSAT Transmission System including plinth | per link | 1 | | |
| TOTAL ITEM 3 : BACKHAUL | | | | | |
| | | | | | |
| 4. ANTENNA SYSTEM | | | | | |
| a | Supply of Complete Antenna | set | 3 | | |
| b | Supply of Complete antenna feeder system (AFS) including necessary feeder Cable, brackets and jumper | set | 1 | | |
| c | Supply and install complete antenna support system | set | 3 | | |
| c | Installation and Testing of complete antenna system | set | 1 | | |
| TOTAL ITEM 4 : ANTENNA SYSTEM | | | | | |
| | | | | | |
| 5. DC POWER SUPPLY | | | | | |
| a | Supply of Complete Rectifier System and Battery Backup System | LS | 1 | | |
| b | Installation and Commissioning of rectifier and battery system including necessary power and grounding cables. | LS | 1 | | |
| TOTAL ITEM 5 : DC POWER SUPPLY | | | | | |
| | | | | | |

| 6. NECESSARY UPGRADING OR ADDITIONAL EQUIPMENT(To fill if necessary) | | | | | |
|---|---|-----|----------|--|--|
| a | BSC Upgrade | LS | 1 | | |
| b | RNC | LS | 1 | | |
| c | Backhaul (Link Transmission Upgrade) | LS | 1 | | |
| d | MSC Upgrade / EMS | LS | 3 | | |
| c | RNC basic features | LS | per site | | |
| TOTAL ITEM 6 : UPGRADING/ ADDITIONAL EQUIPMENT | | | | | |
| | | | | | |
| 7. EQUIPMENT SHELTER & ALARM SYSTEM (*To fill either Item a or Item b) | | | | | |
| a* | Supply & Install Cabin complete with all necessary accessories | set | 1 | | |
| b* | Supply & Install Outdoor Cabinet | set | 1 | | |
| c | Supply & Install horizontal cable gantry | set | 1 | | |
| d | Supply & Install MGB at the edge of horizontal gantry | Nos | 1 | | |
| e | Supply and install of Intruder System | LS | 1 | | |
| | *Note: To choose either Item a or Item b | | | | |
| TOTAL ITEM 7 : EQUIPMENT SHELTER & ALARM SYSTEM | | | | | |
| | | | | | |
| 8. AC POWER SUPPLY | | | | | |
| a | AC Main Distribution Board System (* To fill either Item 1 or Item 2) | | | | |
| 1* | To supply and install 3phase 60A TPN ACPDB indoor type (for Cabin) | | | | |
| 2* | To supply and install 3phase 60A TPN Power Distribution Unit (PDU) Weather proof Outdoor Type (for Outdoor BTS) | | | | |
| 3 | EL-4C x 35mm (u/g)PVC/SWA/PVC cable from meter box | LS | 1 | | |
| 4 | To supply and install metering panel / meter box | LS | 1 | | |
| | | | | | |

| | | | | | |
|----------------|---|-----|---|--|--|
| b | Sourcing of Permanent Power Supply (To fill one item only) | | | | |
| 1 | Power Supply sourced from National grid (3phase 60Amps) - overhead including concrete poles 35mm overhead cable, staywires and all necessary labour | Lot | 1 | | |
| 2 | Supply and Install Hybrid Power System | Lot | 1 | | |
| 3 | Supply & Install Generator Set System: 2 x15kVA Genset c/w 1,000L skid tank | Lot | 1 | | |
| 4 | Supply & Install Generator Set System: 2 x20kVA Genset c/w 2,000L skid tank | Lot | 1 | | |
| | TOTAL ITEM 8 : AC POWER SUPPLY | | | | |
| | | | | | |
| SUMMARY | | | | | |
| | TOTAL ITEM 1: PRELIMINARIES | | | | |
| | TOTAL ITEM 2: BTS EQUIPMENT | | | | |
| | TOTAL ITEM 3: BACKHAUL | | | | |
| | TOTAL ITEM 4: ANTENNA SYSTEM | | | | |
| | TOTAL ITEM 5: DC POWER SUPPLY | | | | |
| | TOTAL ITEM 6 : UPGRADING/ ADDITIONAL EQUIPMENT | | | | |
| | TOTAL ITEM 7: EQUIPMENT SHELTER & ALARM SYSTEM | | | | |
| | TOTAL ITEM 8 : AC POWER SUPPLY | | | | |
| | GRAND TOTAL (RM) | | | | |

APPENDIX 8 - MAINTENANCE AND OPERATION SUPPORT PLAN (where applicable)

The preventive and corrective maintenance includes operational checking and testing as well as cleanliness and tidiness of the site and equipment.

A. Preventive Maintenance

| NO | ITEM | MANPOWER PER SITE | FREQUENCY | DESCRIPTION |
|----|------|-------------------|-----------|-------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

B. Corrective Maintenance

| NO | ITEM | MANPOWER PER SITE | RESPONSE TIME | OPERATING CENTER (OPERATING HOUR) |
|----|------|-------------------|---------------|-----------------------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

C. Contact Personnel :

D. Hotline/Contact No. :

E. Others :

(the rest of this page has been intentionally left blank)

APPENDIX 9 – TECHNICAL SPECIFICATIONS