INVITATION TO REGISTER INTEREST AS UNIVERSAL SERVICE PROVIDER FOR THE PROVISION OF PUBLIC CELLULAR SERVICE UNDER UBIQUITOUS PROJECT (PHASE 1)

Questions & Answers Part 4

No.	Questions	Answers
1	2.14 - The Interested Licensee shall give a reference list of commercially launched UMTS and/or LTE networks, with the proposed solution. The Commission reserves the right to obtain further information should it requests to do so. What if the solution to be proposed is a new RAN Sharing solution which is more future proof, better on operational efficiencies but no existing reference on the new solution? The operator only has other RAN sharing solution which is not so efficient. Will MCMC accept the new solution?	The proposal will be evaluated accordingly.
2	2.16 - The proposed solution shall be of open architecture and open protocol, and shall be implemented to ensure interoperability between systems in a multi-vendor environment. What is the definition on open architecture and open protocol? Is the 3GPP standard supported by the vendor equipment is not sufficient to demonstrate that the equipment is using same standard/protocol within industry or it has its own specific requirement.	By open architecture / open protocol, the tenderer is required to source systems that guarantees interoperability in multi-vendor environment. Compliance with the 3GPP standard does not necessarily imply that the sourced solution is interoperable.
3	2.19 - The proposed RAN sharing solution shall be configured so that it can serve at least 4 numbers of carriers per sector for 3G networks and 4 numbers of carriers per sector for 4G networks to make sure 3G	Yes, this minimum assumption is valid. Nevertheless, the Tenderer shall understand the requirement in respect of each site, and dimension the system accordingly.

No.	Questions	Answers
	configuration of each Public Cellular Network Providers could be S1/1/1, 4G configuration of each Public Cellular Network Providers could be S1/1/1.	
	The statement will be true for MORAN solution which use dedicated carrier concept. If the operator choose to use MOCN solution and configure 1 carrier per sector and the carrier are sharable with all the 4 operator and all operator will have a capacity of 1 carrier, does this 2 config consider the same to MCMC? (complied to the tender requirement)	
4	2.20 - Configuration of UMTS: UMTS S4/4/4, 5MHz bandwidth/carrier (S1/1/1 for each Public Cellular Network Provider) RRU: 2T4R Power: 20W/carrier/TX antenna port; CE number: 1024 per site Is 2T4R mandatory to be activated once the site on air? Can we use 1T2R instead as it will reduce the number of antenna at the site.	Tenderer shall comply with the minimum requirement.
5	3.7 - The proposed RAN sharing solution shall support 2T4R minimum and additional options shall be proposed to support 1T2R, output power per carrier per TX antenna port shall be minimum 20W for UMTS. Is 2T4R mandatory to be activated once the site on air? Can we use 1T2R instead as it will reduce the number of antenna at the site.	Tenderer shall comply with the minimum requirement.

No.	Questions	Answers
6	The Antenna Feeder System (AFS) shall include antennas, RETs, all required RF accessories and components. The proposed antenna shall be 4 ports Dual Band Antenna. Can we use more than 4 ports antenna as it can reduce the number of antenna at sites.	Yes.
7	Pursuant to submission of draft USP plan by tender closing date of 17/7, can the eventual winner of the UST clusters subsequently request for change to the draft USP plan, such as in terms of design solution from MOCN to MORAN or vice versa. Our rationale for this query is to accommodate a scenario whereby the tender winners have different solutions to be implemented.	The Commission may at its discretion approve or refuse any application for variation.
8	Can we interpret S4/4/4, as mentioned in the tender, to mean as S1/1/1 MOCN	Yes, this minimum assumption is valid. Nevertheless, the Tenderer shall understand the requirement in respect of each site, and dimension the system accordingly.
9	Please advise on how to reflect the Core Network cost in the BOQ, as it cannot be broken down on per site basis. This is because an operator still has to provision for all 150 sites regardless of number of sites awarded/won	The scope of work, and hence, the scope of the costing shall be based on the requirement defined in the RFP. Any upgrading cost shall be stated in Item 6 of the BoQ for Part 2.