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Bangladesh

**questionnaire ON regulatory information for implementation IMT network in Asia-Pacific Region**

**Question 1:**

**Institution/Company Information and Profile**

Name of the institution : Bangladesh Telecommunication Regulatory Commission

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My institution is (please choose) :Regulator

**Question 2:**

Which IMT technology being use and will be used or technology neutral in these bands?

Please fill in the frequency bands used for IMT and specify which IMT technology (e.g. WCDMA, HSPA, LTE, LTE-A, TDD-LTE, 3GPP Release 10, …) being used, if not IMT please answer “non-IMT”.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Frequency band****(MHz)** | **FrequencyBlock (MHz)** | **Operator** | **IMT Technology** | **Channel bandwidth (MHz)** |
| **Uplink** | **Downlink** |
| 880 – 915/ 925 – 960 | 888.4-890 | 933.4 - 935 | Operator A | Tech Neutral | 1.6 |
| 890.0-895.2 | 935 – 940 | Operator B | 5.2 |
| 895.2-900.2 | 940.2-945.2 | Operator C | 5.0 |
| 900,2-907.6 | 945.2-952.6 | Operator D | 7.4 |
|  |  |  |  |
| 1710 – 1785/ 1805 –1880 | 1710.0-1720.0 | 1805.0 – 1815.0 | Operator B | Tech Neutral | 10 |
|  |  |  |  |
| 1720.0-1737.4 | 1815.0-1832.4 | Operator A | 17.4 |
| 1737.4-1752.0 | 1832.4-1847.0 | Operator D | 14.60 |
| 1752.0-1767.60 | 1847.0-1862.60 | Operator C | 15.60 |
| 1767.60-1772.60 | 1862.60-1867.60 | Operator D. | 5 |
| 1920-1960/2110-2150 | 1930-1935 | 2120-2125 | Operator C | Technology Neutral | 5 |
| 1935-1945 | 2125-2135 | Operator D. | 10 |
| 1950-1955 | 2140-2145 | Operator A | 5 |
| 1955-1960 | 2145-2150 | Operator C | 5 |
| 1960-1970 | 2150-2160 | Operator B | 10 |

**Question 3:**

Please provide (or refer to) characteristics, and protection criteria, for implementing the IMT systems/networks in Question 2, and similar information for non-IMT services, within the IMT band and in the neighboring bands.

Ans: In IMT Bands mentioned in Question 2 ,all blocks are assigned for implementing only IMT Services for Cellular Mobile Phone Operators. There is no non-IMT services assigned in this Band. Each block of IMT frequency assigned with several licensing and frequency assignment conditions to Cellular Mobile operators under which radio equipment can be authorized for use in their territories.

**Question 4:**

Which case of co existence as illustrated below and the technical conditions must be applied to each IMT block (e.g power limit, emission mask for spectrum block, pfd limit, ) to support technology neutrality and spectrum efficiency?

In case of technical conditions for IMT Bands, we follow 3GPP standard. As there is no non-IMT frequency in these IMT band so there is no need to consider case B,case C and case D . In case of IMT blocks in IMT bands , each blocks lower band includes guardband.

|  |  |  |
| --- | --- | --- |
| Frequency band (MHz) | Case | Technical condition |
|  | A |  |
| B |  |
| C |  |
| D |  |
| E |  |
|  | A |  |
| B |  |
| C |  |
| D |  |
| E |  |
|  | A |  |
| B |  |
| C |  |
| D |  |
| E |  |
|  | A |  |
| B |  |
| C |  |
| D |  |
| E |  |
|  | A |  |
| B |  |
| C |  |
| D |  |
| E |  |
|  | A |  |
| B |  |
| C |  |
| D |  |
| E |  |



Case A: coexistence between IMT block and IMT in adjacent block in same IMT band

Case B: coexistence between IMT block and non-IMT in adjacent block in same IMT band

Case C: coexistence between IMT block in IMT band and non-IMT block in adjacent band

Case D: coexistence between IMT block and non-IMT block co-channel but adjacent geographical area

Case E:coexistence between IMT block and other IMT block co-channel but adjacent geographical area

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