**IAFI’s Input Document to Working Group (WG)-1, WG-2 and WG-3 of NFAP 2022 Review Committee – Simplification of IND Remark IND16**

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| **Contribution for updating National Frequency Allocation Table-2022 (upto1 GHz band)** | | |
| 1 | Name of Individual/Organization etc. | ITU-APT Foundation of India (IAFI) |
| 2 | Address | 504, 5th Floor, World Trade Center (Behind Lalit Hotel) Barakhamba Road New Delhi- 110001 |
| 3 | Mail ID | info@iafi.in |
| 4 | Phone/Mobile no. |  |
| 5(a)\* | Nature of business | Telecommunication |
| 5 (b) | Type of Organization  (Pvt industry, Association, academia, PSU, government departments etc.) | Industry Association |
|  |  |  |
| 6 | Frequency band (kHz/MHz) | 612-960, 1427-1518 MHz, 1710-2200 MHz, 2300-2450 MHz, 2500-2690 MHz, 3300-3670 MHz, 24.25-27.5 GHz, 37-43.5 GHz, 47.2-48.2 GHz, 66-71 GHz |
| 7\* | Applications of service | IMT |
| 8 | Minimum & Maximum power with unit | As per 3GPP |
| 9 | Purpose | Mobile Services |
| 10 (a) | Countries in which similar applications are used along with web link (if known) | As per ITU-R Recommendation M.1036 |
| 10 (b) | Provisions in frequency allocation table along with footnote of the country along with web link (if known) |  |
| 11 | Radio Regulations provisions (if known) |  |
| 12\* | Type of Radiocommunication service | Mobile service - IMT |
| 13 | Compatible Wireless Standard for the device likely to work in the proposed band (ETSI, 3GPP, IEEE, EC, FCC, TEC etc. or any proprietary standard) | 4G, 5G – 3GPP specifications |
| 14 | Benefit for public | For Public Mobile Services |
| 15 | If modification in NFAP-2022 footnote, then quote relevant footnote no. of NFAP-22 | Please see enclosed updated version of IND 16 |
| 16 | Remarks | . |

Note.

5\* . Construction service / Manufacturing service/ Shipping Service/Aeronautical Service etc

7\*. Specify the operation of service (e.g Hand held radio/ Vehicle mobile radio/ point to point links/FM/Community Radio/Aeromobile/Short Rang Device etc

12\* Amateur/Fixed/Land mobile/Aeronautical mobile/Maritime Mobile/Aeronautical radio navigation/FM broadcast/Community Radio Service etc

Date and Signature

**REVISED and UPDATED IND 16**

**IND 16** The following frequency bands, or parts thereof, have been identified for implementation of International Mobile Telecommunications **(IMT)**:



|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Band** | **Footnotes identifying the band for IMT** | **IND Notes** |
| **1** | **450-470 MHz** | **5.286AA** |  |
| **2** | **612-698 MHz** |  | **See note 1 below** |
| **3** | **698-960 MHz** | **5.313A, 5.317A** |  |
| **4** | **1 427-1 518 MHz** | **5.341C, 5.346A** |  |
| **5** | **1 710-2 025 MHz** | **5.384A, 5.388** |  |
| **6** | **2 110-2 200 MHz** | **5.388** |  |
| **7** | **2 300-2 400 MHz** | **5.384A** |  |
| **8** | **2 500-2 690 MHz** | **5.384A** |  |
| **9** | **3 300-3 400 MHz** | **5.429F** | **See note 2 below** |
| **10** | **3 400-3 500 MHz** | **5.432B** | **See note 3 below** |
| **11** | **3500-3600 MHz** | **5.433A** |  |
| **12** | **3 600-3 670 MHz** |  | **See note 4 below** |
| **13** | **7 025-7 125 MHz** | **5.457E** |  |
| **14** | **24.25-27.5 GHz** | **5.532AB** | **See note 5 below** |
| **15** | **37-43.5 GHz** | **5.550B** | **See note 6 below** |
| **16** | **47.2-48.2 GHz** | **5.553B** | **See note 6 below** |
| **17** | **66-71 GHz** | **5.559AA** | **See note 6 below** |

**Note1: The frequency range 612 -698 MHz may be used for IMT except that certain point to point links, subject to population being less, may be protected initially at few locations. Such sporadic non-IMT users shall vacate the band in near future.**

**Note 2: The frequency band 3300-3400 MHz may be used for implementation of IMT except that initially some usages towards high seas-beyond 50 kms from the coast- and some links in very less populated areas may be permitted for non-IMT usages. Such non-IMT usages shall be shifted to other bands in near future.**

**Note 3: The frequency range 3400-3425 MHz may be used for implementation of IMT except that in six DoS (Department of Space) locations at Thiruvanthapuram, Hassan, Bhopal, Jodhpur, Shillong and A&N Islands, a suitable keep-off distance shall be maintained by the IMT stations.**

**Note 4: The frequency range 3600-3670 MHz may be used for implementation of IMT. The Satellite services may use the C band frequencies beyond 3670 MHz after leaving a guard band of 10 MHz.**

**Note 5 The frequency range 24.25-27.5 GHz may be used for implementation of IMT except that in 25.5-27 GHz frequency range the IMT stations will be required to maintain a keep-off distance of 2.7 kms around five DoS locations at Delhi, Shadnagar, Khambaliya, Hut Bay and Tirunelveli.**

**Note 6: While considering the bands 37-43.5 GHz, 47.2-48.2 GHz and 66-71 GHz for the implementation of International Mobile Telecommunications (IMT), the requirements of Satellite based and other services to which these bands might have been allocated in the RR, may be taken due care of.**