

Contribution for updating National Frequency Allocation Table-2022 (up to 1 GHz)		
1	Name of Individual/Organization etc	Consumer Electronics and Appliances Manufacturers Association (CEAMA)
2	Address	F-4/23, 4th Floor, Wave 1st Silver Tower, Plot No. D-6, Sector -18, Noida 201 301 (U.P.)
3	Mail ID	info@ceama.in
4	Phone/Mobile no.	+91 120 4265697 / +91 8588801293
5(a)*	Nature of business	Industry Association
5 (b)	Type of Organisation (Pvt industry, Association, academia, PSU, government departments etc.)	Association
6	Frequency band (kHz/MHz)	174MHz - 230 MHz 470MHz - 694 MHz
7*	Applications of service	Short Range Devices – Wireless Microphones and In-ear Monitors.
8	Minimum & Maximum power with unit	50mW minimum and 100mW maximum
9	Purpose	Wireless microphones and in-ear monitors are extensively used in program making, broadcast news, live events, institutions, corporate meetings, politics, live debate, theatre, press-conference, sports, cultural events, state assemblies, parliament, army, house of worship, education, hospitals, touristic, etc. Wireless microphones and In-ear monitors are integral part of program making and somehow much needed for the cultural development of the country.
10 (a)	Countries in which similar applications are used along with web link (if known)	Germany, Singapore, Australia, USA, UK https://www.bundesnetzagentur.de/SharedDocs/Downloads/DE/Sachgebiete/Telekommunikation/Unternehmen_Institutionen/Frequenzen/Allgemeinzuteilungen/Mikrofone/vfg342020geaendert_vfg992022.pdf?__blob=publicationFile&v=5 https://www.imda.gov.sg/-/media/imda/files/regulation-licensing-and-consultations/frameworks-and-policies/spectrum-management-and-coordination/spectrummgmthb.pdf https://www.acma.gov.au/wireless-microphones https://www.ecfr.gov/current/title-47/chapter-I/subchapter-A/part-15/subpart-C https://www.ofcom.org.uk/spectrum/radio-equipment/co-ordinated

10 (b)	Provisions in frequency allocation table along with footnote of the country along with web link (if known)	ITU-R Region 1 under footnote 5.296. Individual countries may have their own specific regulations and footnotes that further define the use of wireless microphones. https://www.btk.gov.tr/uploads/pages/slug/itu-radio-regulations-footnotes-for-region-1.pdf
11	Radio Regulations provisions (if known)	Besides terrestrial TV, the wireless microphone & In-ear monitors also use the VHF range 174 MHz to 230 MHz and UHF range 470 MHz to 694 MHz since decades on co-existence basis as secondary user in most European countries and other parts of the globe. Wireless Microphones & In-ear Monitors share the spectrum in this UHF range as the entire band is not occupied by the terrestrial TV. TV leaves enough gap for wireless microphone & In-ear monitors to be used within this spectrum.
12*	Type of Radio communication service	Land Mobile
13	Combatable Wireless Standard for the device likely to work in the proposed band (ETSI, 3GPP, IEEE, EC, FCC,TEC etc or any proprietary standard)	ETSI EN 300 422
14	Benefit for public	Wireless Microphones have varied applications and very often the same are in public interest including Job creation and significantly contributing to economy. An illustrative list of usages is set out below: <ul style="list-style-type: none"> a. announcements at railway stations, bus stations etc.; b. fire and emergency evacuation in hotels / malls / hospitals / multi-story buildings; c. crowd control by police; d. "Lost & Found" or other messages of public importance broadcast at mela's or other large public gatherings; example, Maha Kumbh Mela, which have gathering in crores of people. e. auditoriums, including school & college auditoriums; f. conferences and conventions; g. teaching aids in large classrooms; h. religious activities; i. sports stadiums; j. Concerts k. Defense forces (Army, Navy & Air Force) l. Disaster management in events such as Tsunami, Tunnel evacuations, etc.
15	If modification in NFAP-2022 footnote then quote relevant footnote no. of NFAP-22	CEAMA humbly requests for the addition of a footnote to the 470-694 MHz band in the NFAP. This footnote would allow the use of wireless microphone and In-ear monitors on a non-protection and co-sharing basis as a secondary user of the spectrum. CEAMA proposes the following text for a new India footnote: " <i>IND XX - The frequency band 174-230 MHz and 470-694 MHz are also allocated on a secondary basis for the use of wireless microphone and In-ear monitors. (Subject to specified ERP)</i> "

16	Remarks	Our humble request to the respected authorities is to kindly look into this spectrum need for the wireless microphone & In-ear monitors & consider our request to ensure that the wireless audio industry continues to get access to sufficient spectrum in VHF range 174-230 MHz and UHF range 470 MHz to 694 MHz on co-existence and non-protection basis as a secondary user, which will enable the audio industry to support the events much needed for the cultural development of the country.
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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: 30 July 2024

Submitted by CEAMA



Ravi Shankar Chaudhary
Secretary General