

NFAP-2022 Revision: Working Group-2

{ Chair: Mr N K Bhola, JWA; Convener: Mr D S Rawat, Engr }

Contribution for updating National Frequency Allocation Table-2022 (1 – 6 GHz band)		
1	Name of Individual/ Organization etc	Airports Authority of India (AAI)
2	Address	Rajiv Gandhi Bhavan, Safdarjung Airport, New Delhi – 110003
3	Mail ID	gmcnscom@aai.aero ; asyadav@aai.aero ; afsmcnschq@aai.aero
4	Phone/Mobile no.	011-24620287
5 (a)*	Nature of business	Air Navigation Services Provider (ANSP) in India
5 (b)	Type of Organization (Pvt industry, Association, academia, PSU, government departments etc.)	Central Govt PSU


6	Frequency Band (kHz/MHz)	2700 – 2900 MHz
7*	Applications of service	Primary Approach Radar
8	Minimum & Maximum power with unit	14 kW approx. (Max)
9	Purpose	PSR is safety-critical approach and en-route surveillance facility in the aviation sector and continuously provides aircraft position to the ATC.
10 (a)	Countries in which similar applications are used along with web link (if known)	Global usage.
10 (b)	Provisions in frequency allocation table along with footnote of the country along with web link (if known)	5.337, 5.423, 5.424
11	Radio Regulations provisions (if known)	Frequency band 2700 – 2900 MHz has been exclusively earmarked for Aeronautical Radionavigation Service (ARNS) on PRIMARY basis; and, to the Radiolocation Service (RLS) on Secondary basis.
12*	Type of Radiocommunication service	AERONAUTICAL RADIONAVIGATION SERVICE (ARNS) Radiolocation Service (RLS)
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)	--
14	Benefit for public	For Civil & Defence both to ensure air safety to the air-travelling general public.
15	If modification in NFAP-2022 footnote then quote relevant footnote no. of NFAP-22	Delete footnote IND 27. During revision of NFAP-2011 / 2018, AAI vide letter dated 16.11.2017 / e-mail 08.03.2021 & letter dated 28.08.2023 had already requested WPC Wing to delete this footnote.
16	Remarks	Please refer Annex-1 .

Rajiv Bhola
12/8/24

AAI Comments on 2700 – 2900 MHz Band

NOTE:

- This band is heavily used for Primary Approach Radar (PAR) service mainly providing medium range independent non-cooperative surveillance of the aircraft by ATC. These radars typically provide surveillance in terminal and approach areas around the airports. Multiple frequency operation, commonly using two to four frequencies separated by 60 – 100 MHz, is necessary and requires careful frequency planning and separation of stations.
- Primary Approach Radar systems are being extensively used by AAI for Civil Aviation. As such, AAI has also to accommodate Defence Radar assignments within this small band through frequency coordination to WPC Wing as and when requested. These Radars fall under critical systems for safety of life services as well as for defence purposes. Any proposal for restricting the available frequency spots will badly impact these sophisticated systems designed specifically for this band.
- The planned usage of this frequency band will continue to grow due to phenomenal growth in the aviation sector especially in the coming decade. Therefore, it should be ensured that current and evolving aeronautical systems are free of unintentional adverse effects from the electromagnetic environment.
- Since PSR is extensively used, AAI, in the past, experienced constraints for getting suitable/desirable frequencies for operation in view of sharing the band in non-critical MMDS uses as per NFAP-IND 27. Earlier also, AAI submitted its inputs for protection of aeronautical bands in general and rescind the MMDS use to ensure safety to airborne aircrafts. Despite our cogent reasons, the Microwave Multipoint Distribution System (MMDS), including broadband applications as mentioned in footnote IND 27 (NFAP-2022) **is still allowed in this band**. This may jeopardize air-safety **Therefore, AAI requests to rescind this footnote from the NFAP during the ongoing revision exercise.**


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