

Immediate

Government of India  
Ministry of Communication  
Department of Telecommunications  
Wireless Planning & Coordination Wing

**Dated: 23.08.2024**

**Subject: Minutes of the 2<sup>nd</sup> meeting of Working Group (WG) 1 (upto 1GHz) of NFAP-2022 Review/Revision.**

Kindly refer to the 2<sup>nd</sup> meeting of Working Group (WG) 1 (upto 1 GHz) of NFAP-2022 Review/Revision Committee which was held under the chairmanship of Sh. Viresh Goel, Joint Wireless Adviser to the Govt. of India in virtual mode on 07.08.2024 and find enclosed the minutes of the meeting for reference and further necessary action please.



(Preetam Meena)  
Engineer (WPC Wing)

Encl: As above

To,  
All participants

Government of India  
Ministry of Communication  
Department of Telecommunications  
Wireless Planning & Coordination Wing

**Dated: 23.08.2024**

**Subject : Minutes of the 2nd meeting of Working Group (WG) 1  
(upto 1 GHz) of NFAP – 2022-Review/ Revision**

In continuation of the first meeting of Working Group-1 for NFAP-2022 Review/ Revision, the second meeting, was held on 07<sup>th</sup> August 2024 under the chairmanship of Sh. Viresh Goel, Joint Wireless Adviser to the Govt. of India in virtual mode. Wide participation from various segments such as Industry, Academia, representatives from WPC Wing, DoT and other government organizations such as JCES, MIB, GMRT-NCRA etc was witnessed during the virtual meet. The List of participant is attached herewith.

2. The meeting started with a welcome address by the Chairman to all the participants, briefing them about the ongoing activities in regards to revision committee meeting under chairmanship of Wireless Adviser and different input documents received from the stakeholders.

3. In addition to four inputs already presented and discussed in the first meeting, the following five input documents from stakeholders have been received:

- i.) M/s Arya Omnitalk Radio Trunking Services Private Limited\_Dated 11.07.2025\_ Received on\_11.07.2024.
- ii.) Mobile Trunked Radio Operators Association of India\_Received on\_11.07.2024.
- iii.) Harman International India (Private) Limited\_Received on 16.07.2024.
- iv.) Consumer Electronics and Appliances Manufacturers Association\_Dated 30.07.2025\_ Received on\_30.07.2024.
- v.) ITU-APT Foundation of India (IAFI) Dated NIL\_Received on 06.08.2024 (*Not in Format*)

4. The Stakeholders were requested to introduce and present their input to meeting:

4.1 M/s Arya Omnitalk Radio Trucking Services Private Limited presented their input document for applications of PMRTS, Two-Way, Push-To-Talk Radio communication on Handheld radios, Fixed/ Base radios, and Vehicle Mounted radios for Mission Critical Push-To-Talk Communication for Municipal Corporations, disaster management, several

PSUs, Public Utility, Public Safety etc agencies for day to day operations and Emergency Response Service etc. The proposal is based on availability of equipment, needs to continue operation in the existing 800MHz bands - 811-814 MHz(856-859 MHz) as well as 814 MHz- 819 MHz (859MHz-864 MHz), and no changes were suggested considering the size of industry, existing population of analog and digital radios and the replacement cost of new infrastructure equipment deployed under both PMRTS and CMRTS. This document also contained remarks on the input document of M/s Susan Future Technologies Ltd presented in the first meeting of WG-1. They requested that PPDR technology may be encouraged to use frequency bands which do not conflict with the frequency bands used by PMRTS and CMRTS industry. Through this document they also requested that the band used by PMRTS may be further subdivided into smaller bands for different technologies requiring three different channel bandwidths of 25 KHz/12.5 KHz and 6.25KHz supported by technologies such as DMR, NXDN, APCO Phase II, dPMR etc.

4.2 Mobile Trunked Radio Operators Association of India (MTROA) document is also on similar lines and supported the view of M/s Arya Ominitalk Radio Trucking Services Private Limited and presented a similar input document.

4.3 Consumer Electronics and Appliances Manufactures Association (CEAMA) presented their document requesting for allocation of VHF range 174-230 MHz and UHF range 470-694 MHz, for use of wireless microphones and in-ear monitors on a secondary basis. They indicated that such devices have extensively usages in program making, broadcast news, several types of live events, education, hospitals, touristic, etc. announcements at railway stations, bus stations etc.; fire and emergency evacuation in hotels / malls / hospitals / multi-story buildings; crowd control by police etc. CEAMA requested for addition of a footnote to the 470-694 MHz band in the NFAP to 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.

4.4 M/s Harman International (India) Pvt. Limited also introduced and presented their input contribution on Wireless Microphones, with an request to add a footnote in NFAP in respect of allocation of 470-694 MHz band for use of wireless microphones.

4.5 ITU-APT Foundation of India (IAFI) presented their input document regarding amendments to multiple India specific footnotes of NFAP-2022 in the meeting. The input document proposed several modifications to NFAP footnotes. It was indicated that the document was not in the prescribed format and Chairman requested IAFI to provide their input in the prescribed input format (as was circulated by WG1). The proponent was requested to submit the proposed modifications in the specified format, covering one issue at a time, with necessary justifications, for deliberation in the WG1. IAFI representative indicated that they will submit their inputs, for each modification separately. There were several comments from MIB/

Doordarshan, MTROA, M/S Ericsson, NCRA/ GMR and other Stakeholders on the document, they were requested to submit their comments, counter comments in writing for further deliberations.

4.6 Further, M/s Susan Future Technologies Limited presented a modified version of their earlier input document on PPDR, wherein they requested for amendment of IND 18 footnote of NFAP-2022, for also accommodating PPDR in frequency bands 814-819/ 859-864 and 819-824 / 864-869 MHz along with PMRT/ CMRT.

5. Upon completion of introduction of document the floor was opened for discussions.

5.1 There was an elaborate discussion with multiple stakeholders like MIB JCES, Doordarshan, M/S Ericsson, NCRA/ GMR and others, in addition to the PMSE proponents, regarding the definition of PMSE, its technical aspects and applications, scope of PMSE for audio or video usage. It was indicated that relevant ITU-R Reports, Recommendations can also be referred for additional information in this regard. Stakeholders indicated that (i) a part of the UHF band requested for PMSE is already identified for IMT; (ii) whether the PMSE, would be a licensed or de-licensed operations etc. It was also indicated that number of equipment are being used. Considering these aspects, it was requested for appropriate changes in the PMSE related input documents for further deliberations; along with further Inputs and counter argument from all the stakeholders were also invited on this matter.

5.2 On the matter of CMRTS/ PMRTS and PPDR, Sh. Avneesh Kumar, AWA, indicated that that the sub-band 806-816/851-861 MHz band has been considered for Broadband PPDR and 816-824/861-869 MHz band for Digital PMRTS/CMRTS, and in future there will be no analog PMRTS/CMRTS. Interventions were made by MTROA and others on the matter and discussed. The issue of channelling size of 12.5 / 6.25 kHz was also indicated and discussed. MTROA indicated they will submit their input in this respect. In view of this information WG-1 requested the stakeholders to further submit their comments and inputs accordingly.

6. The Preliminary draft NFAP working document, incorporating the changes as per the final acts of WRC-23 in track change mode, was presented by Sh. Vishal Singh Yadav, Deputy Director. Special emphasis was placed on the changes in Frequency Allocation Table for ITU Region 3 and corresponding changes in table of allocation of India. The stakeholders were requested to provide input documents for assimilation of WRC-23 changes in the Indian context, as per national needs and requirements. After finalization of the inputs, appropriate changes (editorial/ IND footnotes) will be carried out at the WG level. The draft NFAP working document is also enclosed with the minutes.

7. The channelling plans being used in WPC Wing, for assignments in VHF and UHF range, were presented by Sh. Srinivasa Rao, DWA. All the

Stakeholders were requested to submit their inputs for inclusion of more channelling plans, particularly the spectrum efficient plans i.e. channel size 6.25/ 12.5 kHz for consideration in the WG1.

7.1 Stakeholders, including IAFI, Doordarshan, M/s Susan Future Technologies Ltd and others under the moderation of the Chairman, took part in the discussion on the pros and cons of including Channel plans in the NFAP document. It was deliberated that inclusion of Channel plans in NFAP aids transparency, and also act as guide to the prospective users to plan their networks etc. Some stakeholders were of the view that the Channelling Plans may be dealt separately, and may not be part of NFAP revision.

7.2 It was indicated that Channelling plans so incorporated in the NFAP are not really restrictive in nature and are meant to facilitate and reflect the currently applicability. It was further stated that new Channel plans (apart from NFAP specified Channel plans) may always considered within the WPC Wing, as and when required, on the basis of spectrum efficient technologies, and requirements of the users introduction of new services etc. and the same may be ensured through an appropriate note in the NFAP revision.

7.3 In this context it was also indicated by some participants that the reference to the ITU-R, APT reports/ recommendations may be considered in the IND footnotes; wherein it was clarified that as per current practice reference to ITU-R resolutions, as applicable, have been made; however there is no reference to ITU-R, APT reports/ recommendations in IND footnotes.

8. The Chairman thanked all the stakeholders for the active participation in the meeting and again requested everyone to provide their written comments, counter-comments in respect of the various inputs along with necessary justification, so that they may be presented and discussed during subsequent meetings of WG1.

9. The meeting ended with a vote of thanks.