Asia-Pacific Broadcasting Union

Doc T-26/11

ABU Technology

TERMS OF REFERENCE
TOPIC AREAS AND PROJECTS

Revised: October 2026

TOPIC AREA: PRODUCTION

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Secretary: ABU-TD, td@abu.org.my

	PROJECT TOPIC	TASKS	DELIVERABLES	PROJECT MANAGER
1.	**Ultra High Definition TV and Advanced Immersive Sensory Media Systems P/UHDAISM**	1. Monitor developments regarding UHDTV, and study its technical specifications. 2. Monitor developments regarding advanced immersive sensory media and study its technical specifications. 3. Study use cases of advanced immersive sensory media like VR, AR, 360° video, 3D video, audio, and haptic to enhance the audience experience. 4. Study the possibility of a programme exchange technology in ABU region.	1. Report to members on UHDTV developments, including applications and technical aspects. 2. Report to members on the latest technologies on advanced immersive sensory media. 3. Report to members on use cases on advanced immersive sensory media within broadcast and media organization. 4. Contributions to relevant working parties in ITU-R SG6, when necessary. **Time Period: Oct 2026**	**Dr. Toshie HIROSHIMA** hiroshima.t-ey@nhk.or.jp **Co-Project Manager:** **Mr Byung Sun KIM, KBS** bskim2000@kbs.co.kr **Mr Halil Us, TRT** halil.us@trt.net.tr **Zhou Yun, ABS/RTPRC** zhouyun@abs.ac.cn **Hu Xiao, ABS/RTPRC** huxiao@abs.ac.cn **Mr. P.S.Srivastava** pss_18@yahoo.com **Mr Abhishek Agrawal, Prasar Bharati** abhishekagrawal@prasarbharati.gov.in **Mr. Himanshu Goel, Prasar Bharati** himanshu@prasarbharati.gov.in
2.	**Systems for people with special needs P/SN**	1. Study activities related to broadcast service for people with special needs done by other organisations 2. Make possible contributions to international forums or organizations if necessary	1. Report to members outlining broadcast service and systems in place to serve people with special needs 2. Contributions to relevant international forums or organizations **Time Period: Oct 2026**	**Ms. Reiko TAKOU** takou.r-go@nhk.or.jp **Mr. R.P. Joshi** rpjoshi.delhi@gmail.com **Mr. Himanshu Goel, Prasar Bharati** himanshu@prasarbharati.gov.in **Mr Ashok Pant, Prasar Bharati** ashokpant@prasarbharati.gov.in **KBS, TBS, RTPRC, TRT**

	PROJECT TOPIC	TASKS	DELIVERABLES	PROJECT MANAGER
3.	**IT -based Production System and file-based workflows** **P/ITPS**	1. Study use cases of IT -based programme production systems, which are implemented, or being implemented in broadcasters' facilities. 2. Gather the information about operational know-how in total production chain of the systems above. 3. Collaborate with P/RTA if necessary, especially in metadata or storage issues. 4. Prepare a monograph on IT -based programme production systems if possible.	1. Report to members outlining use cases of IT-based programme production systems and the information about operational know-how in total production chain of the above systems. 2. Monograph on IT -based programme production systems. **Time Period: Oct 2026**	**Mr. Onur SÜEL** onur.suel@trt.net.tr **Co-Project Manager** **Mr Daeyang Kim, KBS** kimdaeyang@kbs.co.kr **Mr Gökhan Tikit, TRT** gokhan.tikit@trt.net.tr **Mr Nguyen Duc Tue, VTV** tuend72@vtv.vn **Mr P S Srivastava, DDI** pss_18@yahoo.com **Mr. R.P. Joshi** rpjoshi.delhi@gmail.com **Mr Alireza Abedin, IRIB** a_abedini@irib.ir abedini_ar@yahoo.com **Mr Ashok Pant, Prasar Bharati** ashokpant@prasarbharati.gov.in **CCTV/RTPRC;TDM;TVB [Manufacturers]**
4.	**Big Data, Personalisation and Artificial Intelligence** **P/BDAI**	1. Study use cases of Big Data and technologies like Artificial Intelligence (AI) within broadcasting and media organisations. 2. Gather information about how Data analysis is used for personalisation and how it can be utilised by broadcasters. 3. Study how AI technologies can be deployed and used within production environment and other related applications for broadcasters.	1. Report to members on use cases and applications of Big Data and AI within broadcast and media organisations. 2. Report on the use of Data analytics for personalisation and to understand audience requirements and preferences. **Time Period: Oct 2026**	**Project Manager** **Dr Byunghee Jung, KBS** bhjung@kbs.co.kr **Co-Project Manager** **Mr. Taro MIYAZAKI** miyazaki.t-jw@nhk.or.jp **Dr Sansung KIM, KBS TRI** sansung@kbs.co.kr **Li xiao, ABS/RTPRC** lix@abs.ac.cn **Zhao Ming, ABS/RTPRC** zhaoming@abs.ac.cn **Zheng Ruidi, ABS/RTPRC** zhengruidi@abs.ac.cn **Ms. Wang Yi, ABP/RTPRC** wangyiamy@abp2003.cn

TOPIC AREA: DISTRIBUTION

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Secretary: ABU-TD, td@abu.org.my

	PROJECT TOPIC	TASKS	DELIVERABLES	PROJECT MANAGER
1.	**Digital Terrestrial Television Broadcasting** **D/DTTB**	1. Investigate next generation terrestrial television broadcasting technologies and efforts toward their implementation. 2. Investigate mobile reception technologies for terrestrial broadcasting services. 3. Study the development of 5G technology and its applications in broadcasting delivery and related services. 4. Investigate other initiatives and developments related to digital terrestrial television broadcasting (DTTB). 5. Study the use and regulatory aspects of TV White Spaces (TVWS).	1. Report on next generation terrestrial broadcasting technologies and implementation efforts. 2. Report on mobile terrestrial broadcasting, including services for handheld and mobile devices. 3. Report on the development of 5G technologies and their applications in broadcasting. 4. Report on other initiatives and developments related to DTTB. 5. Report on the use and regulatory status of TVWS **Time period: Oct 2026**	**Mr Singo Asakura** asakura.s-ie@nhk.or.jp **Co-Project Manager:** **Mr. Woojong Ko, KBS** jeonsh@kbs.co.kr **Mr Chen Delin, ABS/RTPRC** chendelin@abs.ac.cn **Mr Halil Us, TRT** halil.us@trt.net.tr **Mr D.P. Singh, Prasar Bharati** dpsingh@prasarbharati.gov.in **Mr A K Mangalgi, Doordarshan** amangalgi@yahoo.com **Zhang Yu, ABS/RTPRC** zhangyu@abs.ac.cn **Xiao Jingting, ABS/RTPRC** xiaojingting@abs.ac.cn **Mr Ajay K Dohare, Prasar Bharati** ajaydohare@prasarbharati.gov.in
2.	**Integrated Broadcast-Broadband and OTT** **D/IBBOTT**	1. Study technologies and specifications related to Integrated Broadcast-Broadband (IBB) platforms. 2. Investigate technologies that enhance broadcasting services in various aspects including integration with OTT platforms. 3. Study information security for broadcasting services delivered via airwaves and/or communication networks (e.g., content protection, conditional access, digital rights management systems). 4. Study cybersecurity measures in broadcasting industry to protect broadcasting infrastructure and services.	1. Report on technologies and specifications of IBB platforms. 2. Report on technologies enhancing broadcasting services, including integration with OTT platforms. 3. Report on information security for broadcasting services over airwaves and communication networks. 4. Report on cybersecurity measures in the broadcasting industry. **Time period: Oct 2026**	**Dr Go Ohtake, NHK** ohtake.g-fw@nhk.or.jp **Mr. Manoj Gupta, Prasar Bharati** manoj.gupta@prasarbharati.gov.in **Co-Project Manager:** **Mr A K Mangalgi, Doordashan** amangalgi@yahoo.com **Mr R.P. Joshi, All India Radio** rpjoshi.delhi@gmail.com **Dr Hirokazu Kamoda, NHK** kamoda.h-ci@nhk.or.jp **Mr Hiroki Endo, NHK** endou.h-hc@nhk.or.jp **Zhang Dingjing, ABS/RTPRC** zhangdingjing@abs.ac.cn **Zhang Yu, ABS/RTPRC** zhangyu@abs.ac.cn **Zhang Wei, ABS/RTPR** zhangwei@abs.ac.cn **He Jing, ABS/RTPRC** hejing@abs.ac.cn **Wang Lei, ABS/RTPRC** wanglei@abs.ac.cn

	PROJECT TOPIC	TASKS	DELIVERABLES	PROJECT MANAGER
				Mr. Devesh Kumar, Prasar Bharati devesh@prasarbharati.gov.in
3.	**Satellite Broadcasting D/SB**	1. Investigate the latest satellite broadcasting technologies and challenges. 2. Study the specifications of latest satellite broadcasting systems. 3. Investigate advanced satellite broadcasting technologies using Ka band, etc.	1. Report on the latest satellite broadcasting technologies. 2. Report on the specifications of latest satellite broadcasting systems. 3. Report on advanced satellite broadcasting technologies utilizing the Ka band and other high frequency bands. **Time period: Oct 2026**	**Mr Masashi Kamei, NHK** kamei.m-kw@nhk.or.jp **Co-Project Managers:** **Mr K K Rao, Prasar Bharati** kkrao@prasarbharati.gov.in **Mr. Himanshu Goel**, Prasar Bharati **himanshu@prasarbharati.gov.in**
4.	**Digital Sound Broadcasting Systems** **D/DSBS**	1. Follow developments in digitally modulated radio transmissions in broadcasting, and examine issues related to transition from analogue services to digital services and implementation. 2. Examine issues related to transition from analogue services to digital services in the FM band. 3. Examine the implementation in the medium and shortwave bands.	1. Report on digital radio, including relevant information on ITU-R recommended systems and developments in digital receivers. 2. Report on implementation issues and possibilities. **Time period: Oct 2026**	**Project Manager** **Co-Project Managers:**

TOPIC AREA: **TRAINING AND SERVICES**
Chairperson: **Mr Prakash Veer, Prasar Bharati , p.veer@gov.in**
Secretary: ABU-TD, td@abu.org.my

	PROJECT TOPIC	TASKS	DELIVERABLES	PROJECT MANAGER
1.	**Technical Training Priorities and Members Requirements** **TS/TTPMR**	1. Periodically conduct surveys among members to understand the requirements and priority areas by members and based on these suggest topics for training. 2. Identify requirement of Technical Advisory Services for Member organisations 3. Work with ABU Media Academy to develop: - curriculum-based training programmes - a certification system with different levels - effective monitoring and assessing methods to evaluate how beneficial the training workshops/seminars have been to members. 4. Collaborate with AMA and other established Media Training Academies of members	1. Survey Report on Member requirements 2. List of Priority Areas, Topics and Program Schedule for training 3. Certification and Evaluation Template 4. Database of training academies and training programmes offered by them 5. Databse of Production/ B'cast Technology/ equipment used by Members 6. Database of Resource Persons along with Topics, **Time period: Oct 2026**	**Project Manager:** **Sh. Anil Kumar Gupta, Prasar Bharati** anilkumargupta1@prasarbharati.gov.in **Co-Project Managers:** **Mr. Ravinder Kumar, Prasar Bharati** ravinderkumar@prasarbharati.gov.in **Sh. Yogendra Pal Singh, Prasar Bharati** yogendraair@prasarbharati.gov.in **Contributors:**
2.	**Skill Development Programme for Managerial, and Occupational Safety** **TS/ SDPMOS**	1. Identify and develop training programmes for non-technical, managerial, financial and occupational safety and skills enhancement 2. Conduct surveys to study members requirements on these areas such as General management, Health & Safety considerations. 3. Explore the best possible ways of delivery of such training and good practice methods within the industry	1. List of non-technical, managerial, financial Skills courses that can be organised. 2. Identify and suggest at least one such topic to be included in the TD training calendar annually based on member requirements 3. Find out Standard Operating Procedures (SOP) and best practice methods adopted by members on different situations and work environment in general 4. develop standard code of conduct and work ethics information manual 5. Develop a disaster recovery and response manual that can be used in technical areas **Time period: Oct 2026**	**Project Manager**: **Sh. Sunil Bhatia, Prasar Bharati** sbhatia@prasarbharati.gov.in **Co-Project Managers:** **Mr. Ravinder Kumar, Prasar Bharati** ravinderkumar@prasarbharati.gov.in **Mr. D.K. Mazumder, Prasar Bharati** dkmazumder@prasarbharati.gov.in **Contributors:**
3	**Technical Skill Building and Knowledge Sharing** **TS/TSBKS** **OR** **High-Tech Exposure & Knowledge Sharing** **TS/TEKS**	1. Work with industry partners and international events to identify applicable training opportunities available in broadcasting field eg: ITU, IABM, SMPTE etc. 2. Explore and develop a staff exchange or short-term attachment programme among members. 3. Explore easy ways how redundant or in excess equipment from members can be acquired and utilised by other members who can use them.	1. MoU with Industry Partners 2. Guidelines for staff exchange programme 3. Members' Information Exchange platform **Time period: Oct 2026**	**Project Manager:** **Sh. Sunil Bhatia, Prasar Bharati** sbhatia@prasarbharati.gov.in **Co-Project Managers:** **Mr Devesh Kumar, Prasar Bharati** devesh@prasarbharati.gov.in **Mr. Ravinder Kumar, Prasar Bharati** ravinderkumar@prasarbharati.gov.in Sh. Yogendra Pal Singh**, Prasar Bharati** yogendraair@prasarbharati.gov.in

	PROJECT TOPIC	TASKS	DELIVERABLES	PROJECT MANAGER
				Contributors:

TOPIC AREA: SPECTRUM

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	WRC-27 ISSUES			
	PROJECT TOPIC	**TASKS**	**DELIVERABLES**	**PROJECT MANAGER**
1.	**to consider a possible new primary allocation to the fixed-satellite service (space-toEarth) in the frequency band 17.3-17.7 GHz and a possible new primary allocation to the broadcasting-satellite service (space-to-Earth) in the frequency band 17.3-17.8 GHz in Region 3, while ensuring the protection of existing primary allocations in the same and adjacent frequency bands, and to consider equivalent power flux-density limits to be applied in Regions 1 and 3 to nongeostationary-satellite systems in the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz, in accordance with Resolution 726 (WRC-23);** **(WRC-27 AI 1.4)**	1. Follow developments of studies in **relevant SGs and WPs of ITU-R** to identify and possible impact on Broadcasting Services. 2. Possible impact on broadcasting service in Asia-Pacific Area.	1. From time to time, circulate among ABU members, relevant information on sharing studies. 2. Preparation of ABU contributions to the relevant SGs and WPs of ITU-R, APT and others. **Reports: As required.** **Time Period: Oct 2026**	**Project Manager** **Co-Project Managers:** **Mr. Rajeev Kumar, Prasar Bharati** rajeev00kumar@yahoo.com rajeev00kumar@prasarbharati.gov.in **Contributors:**
2.	**to consider technical and regulatory measures for fixed-satellite service satellite networks/systems in the frequency bands 37.5-42.5 GHz (space-to-Earth), 42.5-43.5 GHz (Earth-tospace), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space) for equitable access to these frequency bands, in accordance with Resolution 131 (WRC-23);** **(WRC-27 AI 1.6)**	1. Follow developments of studies in **relevant SGs and WPs of ITU-R** to identify and possible impact on Broadcasting Services. 2. Possible impact on broadcasting service in Asia-Pacific Area.	1. From time to time, circulate among ABU members, relevant information on sharing studies. 2. Preparation of ABU contributions to the relevant SGs and WPs of ITU-R, APT and others. **Reports: As required.** **Time Period: Oct 2026**	**Project Manager** **Co-Project Managers:** **Mr. Rajendra Kumar** rkumar@prasarbharati.gov.in **Mr. Sunil Bhatia, Prasar Bharati** sbhatia@prasarbharati.gov.in **Contributors:**

	WRC-27 ISSUES			
	PROJECT TOPIC	**TASKS**	**DELIVERABLES**	**PROJECT MANAGER**
3.	**to consider appropriate regulatory actions to update Appendix 26 to the Radio Regulations in support of aeronautical mobile (OR) high frequency modernization, in accordance with Resolution 411 (WRC-23); (WRC-27 AI 1.9)**	1. Follow developments of study results in **relevant SGs and WPs of ITU-R** 2. Possible impact on broadcasting service in Asia-Pacific Area.	1. From time to time, circulate among ABU members, relevant information on sharing studies. 2. Preparation of ABU contributions to the relevant SGs and WPs of ITU-R, APT and others. **Reports: As required.** **Time Period: Oct 2026**	**Project Manager** **Co-Project Managers:** **Mr. Rajeev Kumar** rajeev00kumar@yahoo.com **Mr. Sunil Bhatia, Prasar Bharati** sbhatia@prasarbharati.gov.in **Contributors:**
4	**to consider developing power flux-density and equivalent isotropically radiated power limits for inclusion in Article 21 of the Radio Regulations for the fixed-satellite, mobile-satellite and broadcasting-satellite services to protect the fixed and mobile services in the frequency bands 71-76 GHz and 81-86 GHz, in accordance with Resolution 775 (Rev.WRC-23); (WRC-27 AI 1.10)**	1. Follow developments of study results on **relevant SGs and WPs of ITU-R** 2. Possible impact on broadcasting services.	1. From time to time, circulate among ABU members, relevant information on sharing studies. 2. Preparation of ABU contributions to the relevant SGs and WPs of ITU-R, APT and others. **Reports: As required.** **Time Period: Oct 2026**	**Project Manager:** **Dr. Li Leilei** **lileilei@abp2003.cn** **Co-Project Managers:**
5	**to consider studies on possible new allocations to the mobile-satellite service for direct connectivity between space stations and International Mobile Telecommunications (IMT) user equipment to complement terrestrial IMT network coverage, in accordance with Resolution 253 (WRC-23);** **(WRC-27 AI 1.13)**	1. Follow developments of study results on **relevant SGs and WPs of ITU-R** 2. Possible impact on broadcasting services.	1. From time to time, circulate among ABU members, relevant information on sharing studies. 2. Preparation of ABU contributions to the relevant SGs and WPs of ITU-R, APT and others. **Reports: As required.** **Time Period: Oct 2026**	**Project Manager:** **Dr. Li Leilei** **lileilei@abp2003.cn** **Co-Project Managers:**

	WRC-27 ISSUES			
	PROJECT TOPIC	**TASKS**	**DELIVERABLES**	**PROJECT MANAGER**
6	**to consider regulatory provisions for receive-only space weather sensors and their protection in the Radio Regulations, taking into account the results of ITU Radiocommunication Sector studies, in accordance with Resolution 682 (WRC-23);** **(WRC-27 AI 1.17)**	1. Follow developments of study results on **relevant SGs and WPs of ITU-R** 2. Possible impact on broadcasting services.	1. From time to time, circulate among ABU members, relevant information on sharing studies. 2. Preparation of ABU contributions to the relevant SGs and WPs of ITU-R, APT and others. **Reports: As required.** **Time Period: OCt 2026**	**Project Manager:** **Dr. Li Leilei** **lileilei@abp2003.cn** **Co-Project Managers:**