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# Cambodia Approach for Cross-border RF interference Mitigation

ITU – ITTLLDC Seminar – 2025

28 – 29 August 2025 Ulaanbaatar, Mongolia

# The Architecture of Telecommunications Regulations in Cambodia



## Ministry of Posts and Telecommunication,” MPTC”

- The sector ministry which is responsible as a telecommunication policy-maker and state member for international cooperation;
- Has the authority to manage all the Telecommunication services;
- The functioning of the management of telecommunication services shall be determined by Ministerial declaration (Prakas) of the MPTC.



## Telecom Regulation of Cambodia, “TRC”

- Legal entity with autonomy in technical and administrative inspection and management;
- Regulate in pursuant to the policy and legal framework governing the telecommunication sector, and other applicable regulations;
- Monitor the provision of telecommunication service in pursuant with the applicable regulations.

### Joint Technical Committee (JTC)

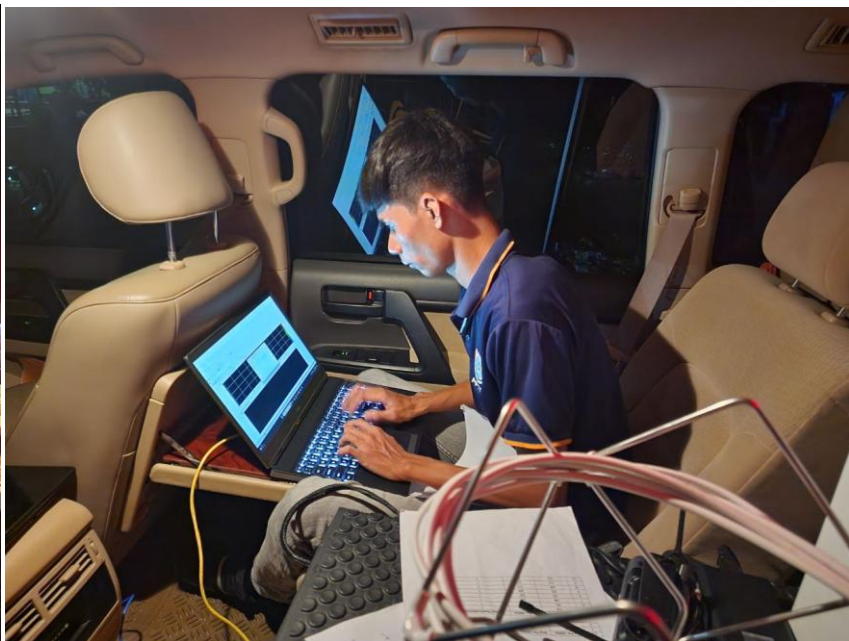
- Bilateral Meeting on Spectrum Management and Cross-Border Frequency Coordination between Cambodia and its neighboring countries
- Purpose of the meeting to is collaborate on the coordination RF spectrum usage along the common border at the technical level to ensure adequate quality of telecommunication and broadcasting services and to achieve the most efficient use of spectrum for both countries.
- Cambodian delegate led by Telecommunication Regulator of Cambodia
- The first JTC Meeting was held on 19-20 January 2004, The meeting is scheduled to happen once a year

### Prompt Response to RF interference issue

- Both countries assign a team to response to RF interference
- When receive complaint of RF interference, the response team will take action in timely manner



# Joint Technical Committee Meeting: On-site Spectrum Monitoring and Analysis





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**Promax:** Ranger neo 4  
DVB-T, DVB-T2, DVB-T2 lite  
DVB-T2-MI (Gateway to modulator)  
DVB-C, DVB-C2  
DVB-S, DVB-S2, DVB-S2 multistream  
ISDB-T/Tb  
DSS, ACM/VCM/CCM  
MPEG-TS



**HBflex Scanning Receiver**

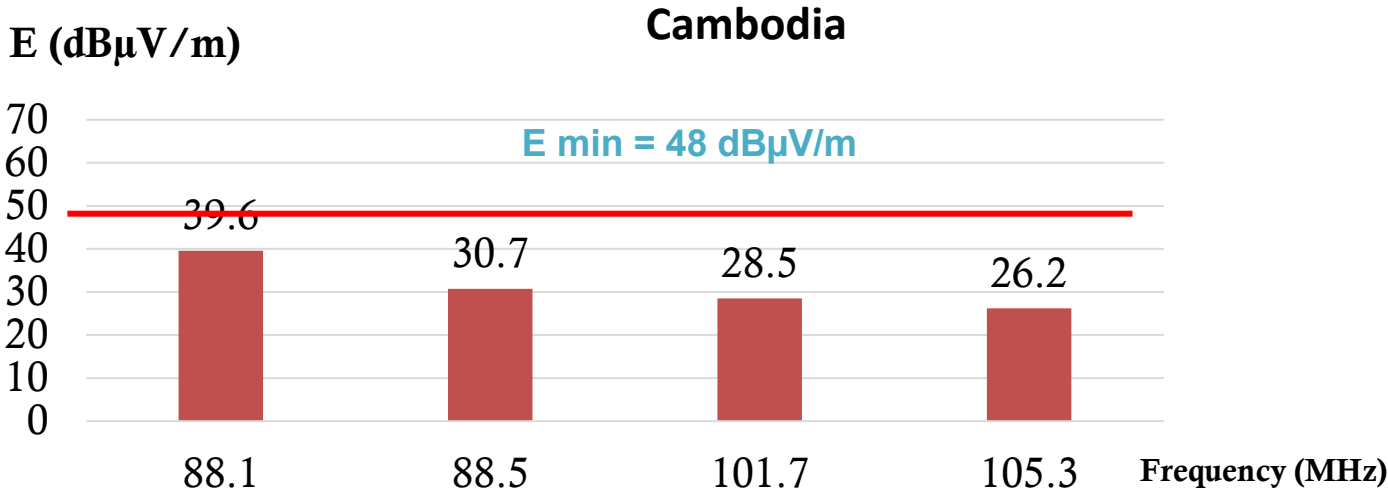
Frequency Range  
Sub 6 GHz: 10 MHz – 6 GHz  
mmWave: N257 (26.5-29.5 GHz),  
N258 (24.25-27.5 GHz), N260 (37-  
40 GHz), N261 (27.5-28.35 GHz)



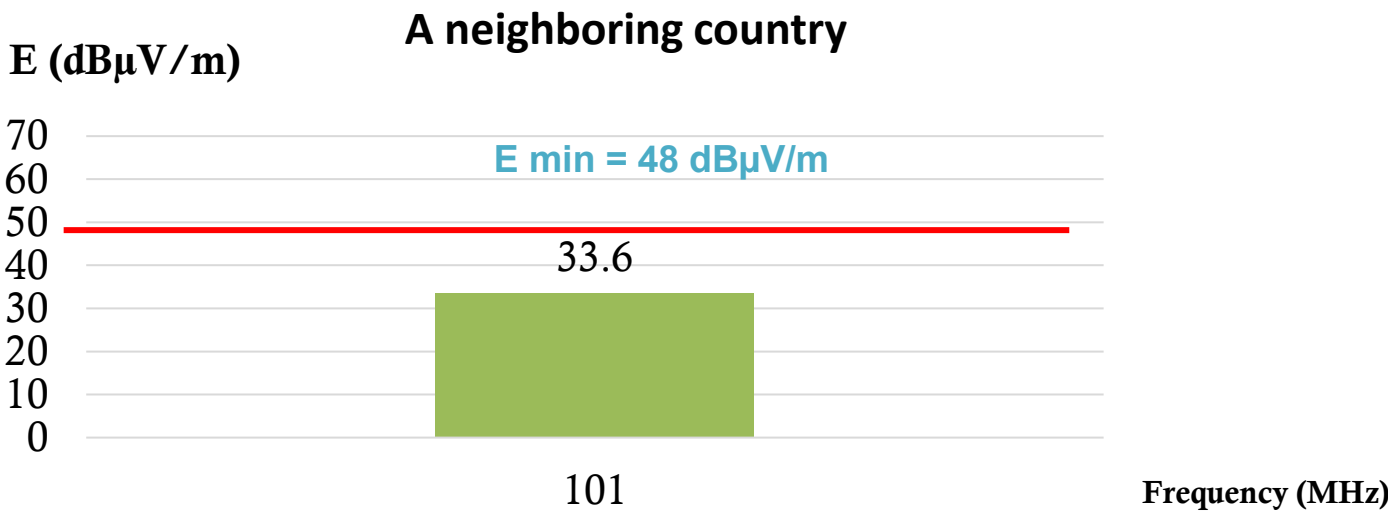
- Frequency range:  
DF mode: 20 MHz to 6 GHz  
Receive mode: 20 MHz to 6 GHz  
- DF method  
VHF/UHF/SHF: correlative interferometer  
HF: Watson-Watt  
- BW DF: up to 20 MHz  
- Receive mode  
Analysis bandwidth: up to 20 MHz  
Demodulation bandwidth: up to 20 MHz  
- Scan speed up to 12 GHz/s



# Joint Technical Committee Meeting: On-site Spectrum Monitoring and Analysis



There are 4 FM signals on channels 88.1 MHz, 88.5 MHz, 101.7 MHz and 105.3 MHz broadcasted by Cambodia



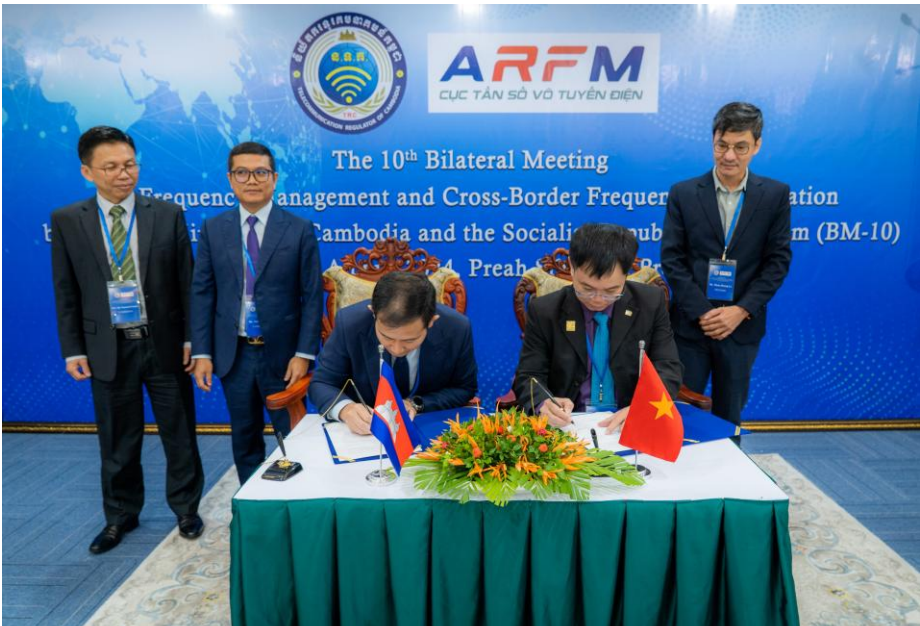
There is 1 FM signal on channel 101 MHz broadcasted by our neighboring country.

## List of main activities:

- Adoption of Agenda and Working Group arrangement
- Appointment of Co-Chairmen for each Working Group
- Information Updates on RF management, Policies and WRC outcomes
- Exchange of Information on Radio Monitoring and Interferences
- Report of Working Group
  - Working Group 1: Band plan and Coordination Parameters for IMT service in each frequency band and Frequency Registration
  - Working Group 2: Status Update for Radio Service, Status Update for Digital Terrestrial Television (DTT) and Frequency Registration
- Frequency planning for future services and harmonization of existing band plans
- Other matter.



# Joint Technical Committee Meeting





Thank You!  
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