

#### COOPERATION AGREEMENT ON IMPLEMENTATION OF ITU/ABU REGIONAL WORKSHOP ON UHF-VHF BAND PLANNING FOR DIGITAL TV BROADCASTING SERVICES

Duration, date:	4 days, from 21 to 24 July 2008				
Workshop venue:	Kuala Lumpur, Malaysia				
Language:	English				
Executing Agency:	Asia-Pacific Broadcasting Union (ABU) in collaboration with ITU (BDT)				
Brief Description:	ITU (BDT) will provide expertise and contribute to ABU towards ASP fellowships thus encouraging participation in the above-mentioned Workshop (Action 9861).				
Organisation	Signature	Date	Name/Title		
For ABU			David Astley Secretary-General ABU		
For ITU			Sami Al Basheer Al Morshid Director BDT		

Annex: Agenda

# REGIONAL WORSHOP ON UHF-VHF BAND PLANNING FOR DIGITAL TV BROADCASTING SERVICES (hereinafter referred to as " the workshop" )

Organized by ABU & ITU 21-24 July 2008, Kuala Lumpur, Malaysia

#### 1. Background

The ITU Regional Radiocommunication Conferences RRC- 04 and RRC-06 addressed the planning for digital broadcasting services in Europe, Africa and certain other areas. However, most countries in the Asia-Pacific Region were not a part of this process. There arecurrently no plans for broadcasting in the VHF-UHF range in this area.

#### 2. Aims

This workshop is aimed at providing sufficient information to such broadcasters and to assist ABU members to make decisions as to whether or how the countries in the region could carry out a planning exercise, either similar to the RRC-04 and RRC-06 or on a national basis. This event will be held back to back with the 3rd Asia-Pacific Technical Regulators-Broadcasters Forum for national regulators of the region in order to take advantage of synergies that the two events would develop.

#### 3. Objectives

- To enable participants of countries in the region to carry out frequency planning exercises for digital TV services either similar to RRC-06 [Q: what about RRC-04?] or on a national basis.
- To ensure efficient utilization of spectrum in all the countries.
- To develop synergies with national regulators of the region.

## 4. Duration

Four (4) Days.

## 5. Proceedings

The workshop will be conducted in an interactive manner. Participants will be exposed to theoretical as well as practical elements of DTV frequency planning in the existing frequency environment.

As an important part of the workshop, individual broadcasters and their spectrum regulators will be asked to prepare frequency plans for DTV for their own countries.

## 6. Participants

It is expected that broadcasting engineers, planners, decision makers and regulators associated with planning and implementation of digital television broadcasting, will take part in thisworkshop. Participants are invited from Bangladesh, Bhutan, DPR Korea, Lao PDR, Maldives, Nepal, India, Indonesia and Vietnam.

Number of participants expected to attend under their own funding: ten (10).

### 7. Inputs

ITU will provide financial support to ABU for ASP fellowships (nine (9) fellowships to ABU members: Bangladesh, Bhutan, DPR Korea, Laos, Maldives, Nepal, India, Indonesia and Vietnam) to facilitate participation in the workshop. ITU is cooperating with ABU in the preparation of theworkshop's program and in the selection of suitable speakers, and will provide experts [Q:how many?] to deliver presentations. ABU [is responsible] [Note: contradiction between this sentence and the heading of the Agreement] for all other aspects of the organization of the workshop, including inviting the speakers and participants, managing administrative arrangements for participation and fellowships, etc.

#### 8. Speakers

Mr. Antoine Guilbot [title?!] and Mr. J. P. Chaib, Director of Sales and Business Development, ATDI.

	Morning Session 0900 – 1230hrs		Afternoon Session 1400 – 1730hrs
Day 1	<ul> <li>Opening Session</li> <li>Elements of Digital Signal Propagation</li> <li>Elements of Coverage Planning</li> <li>Frequency Planning and Lattice Structures</li> </ul>		<ul> <li>Recommendation ITU-R P.1546 and Recommendation ITU-R P.452</li> </ul>
Day 2	planning decisions • Role in Frequency Management • Interference Theory T • C	Coverage planning Ind frequency Planning Methods Planning methods or Digital Terrestrial Felevision Coverage planning	ITU-R P.1546 Method for point to area predictions for terrestrial services in the frequency range 30-3000MHz ITU-R P.452-13 Prediction procedure for the evaluation of microwave interference between stations on the surface of the Earth at frequencies above about 0.7 GHz • Exercises (Common)
	a p fr	Ind frequency Ianning for multi- requency and ingle-frequency	

## 9. Draft Programme Schedule

		networks	<ul> <li>Technical Regulators- Broadcasters' Forum</li> </ul>
Day 3	<ul> <li>Country Specific Data</li> <li>Country Specific Frequency Planning Exercises (one per country)</li> </ul>		<ul> <li>Country Specific Frequency Plan Exercise (one per country)</li> </ul>
Day 4	<ul> <li>Country Specific Frequency Planning Exercise (one per country)</li> </ul>		Analysis of results of Exercises

## **10** Privileges and Immunities of ITU

Nothing in this Agreement shall constitute or be interpreted as a waiver or renunciation of the privileges and immunities which ITU enjoy by virtue of the international treaties and agreements or national laws applicable to it.