

**DECREE OF THE MINISTER OF COMMUNICATION AND INFORMATION  
TECHNOLOGY OF THE REPUBLIC OF INDONESIA**

**NUMBER : 23/PER/M.KOMINFO/11/2011**

**ON**

**MASTER PLAN OF RADIO FREQUENCY FOR TERRESTRIAL DIGITAL  
BROADCAST TELEVISION AT RADIO FREQUENCY BAND OF 478 - 694 MHz**

**BY THE GRACE OF GOD THE ALMIGHTY**

**MINISTER OF COMMUNICATION AND INFORMATION TECHNOLOGY OF THE  
REPUBLIC OF INDONESIA**

- Considering:
- a. that within the framework of technological application in the provision of digital television broadcasting using radio frequency spectrum in a terrestrial manner for fixed reception, it is considered necessary to carry out structuring for radio frequency usage at band IV and band V of *Ultra High Frequency* (UHF) in an orderly, effective and efficient manner in line with national and international provisions.
  - b. that based on consideration mentioned in point a, it is deemed necessary to ratify a Decree of the Minister of Communication and Information Technology on Master Plan of Radio Frequency for Terrestrial Digital Broadcast Television At Radio Frequency Band of 478 – 694 MHz.

- Bearing in mind:
1. Law of the Republic of Indonesia Number 36 Year 1999 on Telecommunication (State Gazette of the Republic of Indonesia Number 154 Year 1999, Additional State Gazette of the Republic of Indonesia Number 3881);
  2. Law of the Republic of Indonesia Number 32 Year 2002 on Broadcasting (State Gazette of the Republic of Indonesia Number 139 Year 2002, Additional State Gazette of the Republic of Indonesia Number 4252);
  3. Government Regulation of the Republic of Indonesia Number 52 Year 2000 on Provision of Telecommunication (State Gazette of

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the Republic of Indonesia Number 107 Year 2000, Additional State Gazette of the Republic of Indonesia Number 3980);

4. Government Regulation of the Republic of Indonesia Number 53 Year 2000 on Use of Radio Frequency Spectrum and Satellite Orbit (State Gazette of the Republic of Indonesia Number 108 Year 2000, Additional State Gazette of the Republic of Indonesia Number 3981);
5. Government Regulation of the Republic of Indonesia Number 38 Year 2007 on Allocation of Governmental Matters Between the (Central) Government, Provincial Governments, And District/Municipal Governments (State Gazette of the Republic of Indonesia Number 82 Year 2007, Additional Gazette of the Republic of Indonesia Number 4737);
6. Decree of the President of the Republic of Indonesia Number 47 Year 2009 on Formation and Organization of State Ministries of the Republic of Indonesia as amended by the Decree of the President of the Republic of Indonesia Number 76 Year 2011;
7. Decree of the President of the Republic of Indonesia Number 24 Year 2010 on Positions, Duties, and Functions of State Ministries of the Republic of Indonesia and Organizational Structure, Duties, and Functions of Echelon I of State Ministries of the Republic of Indonesia as amended by the Decree of the President of the Republic of Indonesia Number 67 Year 2010 on Amendment to the Decree of the President of the Republic of Indonesia Number 24 Year 2010;;
8. Decision of the Minister of Communication Number KM. 76 Year 2003 on Master Plan of Radio Frequency of Special Telecommunication Provision for Analog Broadcast Television at Ultra High Frequency (UHF) Band as amended by the Decree of the Minister of Communication and Information Technology Number 12/PER/M.KOMINFO/02/2009.;
9. Decree of the Minister of Communication and Information Technology Number 07/P/M.KOMINFO/3/2007 on Standard of Terrestrial Digital Broadcasting for Immobile Television in Indonesia;

10. Decree of the Minister of Communication and Information Technology Number 29/PER/M.KOMINFO/07//2009 on Table of Allocation of Radio Frequency Spectrum of Indonesia as amended by the Decree of the Minister of Communication and Information Technology Number : 40/PER/M.KOMINFO/10/2009;
11. Decree of the Minister of Communication and Information Technology Number 39/PER/M.KOMINFO/10/2009 on Basic Framework of the Provision of Terrestrial Digital Television Broadcasting of Free to Air Fixed Reception;
12. Decree of the Minister of Communication and Information Technology Number : 17/PER/M.KOMINFO/10/2010 on Organization and Work Method of the Ministry of Communication and Information Technology;
13. Decree of the Minister of Communication and Information Technology Number: 15/PER/M.KOMINFO/7/2011 on Adjustment of Nomenclatures of a Number of Decisions and/or Decrees of the Minister of Communication and Information Technology which regulate Special Material Content in the Field of Post and Telecommunication and Decisions and/or Decrees of the Director General of Post and Telecommunication. '

### **DECIDES :**

**To ratify : DECREE OF THE MINISTER OF COMMUNICATION AND INFORMATION TECHNOLOGY ON MASTER PLAN OF RADIO FREQUENCY FOR TERRESTRIAL DIGITAL BROADCAST TELEVISION AT RADIO FREQUENCY BAND OF 478 - 694 MHz**

## **CHAPTER I**

### **GENERAL PROVISIONS**

#### Article 1

In this Ministerial Decree, what is meant by:

1. Radio Frequency Band is part of radio frequency spectrum that a certain width

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2. Radio Frequency Canal is part of radio frequency band designated for a radio station.
3. Designation of a radio frequency band or frequency canal is the authorization provided by an administration, in this case the Minister to a radio station to use radio frequency or radio frequency canal based on certain requirements.
4. Mapping of radio frequency band or radio frequency canal is the listing of a certain frequency canal as a result of a planning approved, adopted by a competent conference, to be used by one or more administrations for the use of terrestrial radio communication service or space communication service in one or more countries or geographical area identified based on certain requirements.
5. Broadcasting of Terrestrial Digital Television of Free to Air Fixed Reception is broadcasting using digital technology that emits terrestrially and received by fixed reception equipment.
6. Service Area is a reception area of a radio station protected from disturbance/interference of other radio frequency signal.
7. The location of a test/measurement point forms the most outer limit of a service area.
8. *Single Frequency Network* hereinafter abbreviated as SFN is a technique of creating network comprising a number of synchronized transmitters all of which transmit identical signals using the same frequency canal.
9. Minister is the Minister whose scope of duties and responsibilities is in the field of telecommunication and information technology.
10. Director General is the Director General of Resources and Equipment of Post and Information Technology.
11. Directorate General is the Directorate General of Resources and Equipment of Post and Information Technology.

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## CHAPTER II

### USE OF RADIO FREQUENCY BAND FOR TERRESTRIAL DIGITAL BROADCAST TELEVISION

#### Article 2

Radio frequency band for broadcasting of terrestrial digital broadcast television is 478 -694 MHz.

#### Article 3

Radio frequency band referred to in Article 2 is used for the purpose of:

- a. broadcasting of terrestrial digital broadcast television at frequency span of 478 – 526 MHz regulated in a separate Ministerial Decree.
- b. broadcasting of terrestrial digital broadcast television of free to air fixed reception at frequency span of 526 – 694 MHz.

#### Article 4

Canalization of radio frequency band of 478 -694 MHz referred to in Article 2 is indicated in Attachment I which is an inseparable part of this Ministerial Decree.

#### Article 5

Every radio frequency usage for broadcasting of terrestrial digital broadcast television of free to air fixed reception referred to in Article 3 point b shall fulfil the technical provision as follows:

- a. the frequency bandwidth used for each canal is 8 MHz;
- b. the protection ratio is indicated in Attachment II which is an inseparable part of this Ministerial Decree; and
- c. the field strength in the location of test/measurement point in each service area is limited at maximum 42.6 dB $\mu$ V / m.

### **CHAPTER III**

#### **MAPPING OF FREQUENCY CANAL**

##### Article 6

Radio frequency usage for broadcasting of terrestrial digital broadcast television of free to air fixed reception in each service area shall follow the mapping of radio frequency canal as indicated in Attachment III which is an inseparable part of this Ministerial Decree.

##### Article 7

The defining of radio frequency canal for broadcasting of terrestrial digital broadcast television of free to air fixed reception in the service area the coverage of which may reach other country is done based on coordination between the Directorate General and telecommunication administration of the concerned country.

##### Article 8

The broadcasting of terrestrial digital broadcast television of free to air fixed reception in a region not covered by any service area may use reserve canal namely canal 46 (670 – 678 MHz), canal 47 (678 -686 MHz) and/or canal 48 (686 – 694 MHz).

### **CHAPTER IV**

#### **APPLICATION OF SINGLE FREQUENCY NETWORK (SFN) TECHNIQUE**

##### Article 9

Radio frequency usage for broadcasting of terrestrial digital broadcast television of free to air fixed reception may apply SFN technique in the following conditions:

- a. in certain service area as indicated in Attachment III which is an inseparable part of this Ministerial Decree; or
- b. at a region in a service area which does not receive signal of good quality (blank spot).

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**CHAPTER V**  
**CERTIFICATION OF EQUIPMENT USAGE**

Article 10

Any tool and equipment used for terrestrial digital broadcast television of free to air fixed reception shall obtain certificate from the Director General.

**CHAPTER VI**  
**SUPERVISION AND CONTROL**

Article 11

Supervision and control towards the implementation of this Ministerial Decree are conducted by the Director General.

**CHAPTER VII**  
**FINAL PROVISION**

Article 12

This Ministerial Decree shall come into force on the date of its ratification.

In order to make known to every body, instruct the promulgation of this Ministerial Decree by placing it in the State Announcement of the Republic of Indonesia.

Done at: JAKARTA  
On : November 23, 2011

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**MINISTER OF COMMUNICATION AND INFORMATION TECHNOLOGY OF THE  
REPUBLIC OF INDONESIA**

Signed

**TIFATUL SEMBIRING**

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Promulgated at: Jakarta  
On : December 7, 2011

MINISTER OF LAW AND HUMAN REIGHTS

Signed

AMIR SYAMSUDIN

STATE ANNOUNCEMENT OF THE REPUBLIC OF INDONESIA YEAR 2011 NUMBER  
796

For copy conform to the original

Head of Bureau of Legal Affairs

Signed

D. Susilo Hartono

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**ATTACHMENT I: DECREE OF THE MINISTER OF COMMUNICATION AND  
INFORMATION TECHNOLOGY**

**NUMBER : 23/PER/M.KOMINFO/11/2011**

**SUBJECT : MASTER PLAN OF RADIO FREQUENCY FOR TERRESTRIAL  
DIGITAL BROADCAST TELEVISION AT RADIO FREQUENCY  
BAND OF 478 – 694 MHz.**

**CANALIZATION OF RADIO FREQUENCY FOR TERRESTRIAL  
DIGITAL BROADCAST TELEVISION**

<b>Band IV :</b>		
<b>Canal Number</b>	<b>Frequency Limit (MHz)</b>	<b>Medium Frequency (MHz)</b>
22	478 – 486	482
23	486 – 494	490
24	494 -502	498
25	502 – 510	506
26	510 – 518	514
27	518 – 526	522
28	526 – 534	530
29	534 – 542	538
30	542 – 550	546
31	550 – 558	554
32	558 – 566	562
33	566 – 574	570
34	574 – 582	578
35	582 – 590	586
36	590 – 598	594
37	598 - 606	602
<b>Band V :</b>		
38	606 – 614	610
39	614 – 622	618
40	622 – 630	626
41	630 – 638	634
42	638 – 646	642
43	646 - 656	650
44	656 – 662	658
45	662 – 670	666
46	670 – 678	674
47	678 – 686	682
48	686 – 694	690

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**MINISTER OF COMMUNICATION AND INFORMATION TECHNOLOGY**

Signed

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**ATTACHMENT II: DECREE OF THE MINISTER OF COMMUNICATION AND  
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**NUMBER : 23/PER/M.KOMINFO/11/2011**

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BAND OF 478 – 694 MHz.**

**PROTECTION RATIO OF  
THE PROVISION OF DVB-T DIGITAL BROADCAST TELEVISION AT UHF BAND**

Protection Ratio	
Protection ratio for co-channel	20 (dB)
Protection ratio for adjacent channel:	
(i) Lower adjacent channel	-30 (dB)
(ii) Upper adjacent channel	-30 (dB)

**MINISTER OF COMMUNICATION AND INFORMATION TECHNOLOGY,**

Signed

**TIFATUL SEMBIRING**