OUR REF: 2007/36944 /2562

Office of the National Broadcasting and
Telecommunications Commission
87 Soi Sailom, Phaholyothin Road
Phayathai, Bangkok, 10400, Thailand
Tel: 66 2 670 8888
Fax: 66 2 271 3518

29 November B.E. 2562 (2019)

Dear Sir,

Subject: Band Plan and Coordination Parameters for 2600 MHz Band

The Office of the National Broadcasting and Telecommunications Commission (Office of the NBTC) has developed a new band plan for 2600 MHz band. The band plan is currently under public consultation process and is expected to come into effect early next year. Office of the NBTC also has a plan for spectrum auction of nationwide 2600 MHz by 2020.

To facilitate the frequency coordination along the common border between Thailand and Myanmar, we would like to propose band plan and coordination parameters for 2600 MHz band for consideration before the 3rd Joint Technical Committee on Coordination and Assignment of Frequencies along Myanmar – Thailand Common Border Meeting (JTC-3).

Consequently, Myanmar is invited to consider Thailand's proposal for band plan and coordination parameters for 2600 MHz band as appeared in the attachment. We look forward to your consideration on this matter.

Yours sincerely,

Takorn Tantasith
Secretary General

The Director General
Posts and Telecommunications Department
Ministry of Transport and Communications
Building No.2, Nay Pyi Taw
Republic of the Union of Myanmar

Proposal for Band Plan and Coordination Parameters for 2600 MHz Band

---

1. Introduction

In the 2nd Joint Technical Committee on Coordination and Assignment of Frequencies along Thailand – Myanmar Common Border Meeting (JTC-2), Thailand informed Myanmar that:

(a) NBTC planned to recall spectrum in the band 2600 MHz to be reallocated for IMT (5G).

(b) Thailand had plan for auction of nationwide 2600 MHz by 2020.

(c) Thailand considered updating 2600 MHz band plan from TDD/FDD partitioning into TDD for the whole band as follows:

Figure 1: Existing band plan

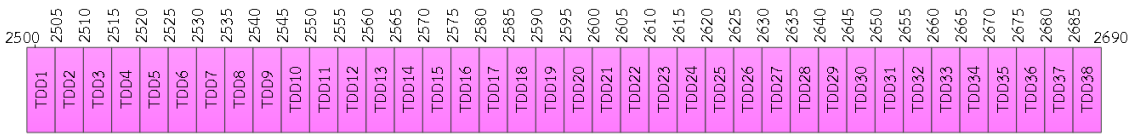

Figure 2: Band plan under consideration for IMT-Advanced and IMT-2020

NBTC has developed a new band plan for 2600 MHz based on TDD configuration for the whole band. That band plan is currently put under public consultation process. NBTC foresees that the new band plan will come into effect early next year.

2. Issues

If Myanmar still maintains the same band plan as PTD presented in JTC-2, then there will be 2 possible cases for coordination as shown in Figure 3.

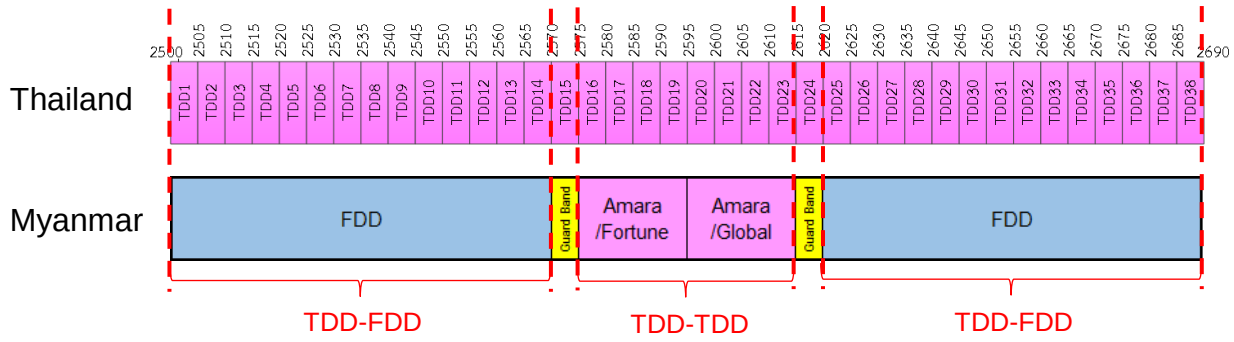

Figure 3: Possible cases for coordination

However, there will be only TDD-TDD case if Myanmar decides to use band 41 (all TDD).

2.1 TDD-TDD case

Thailand proposes possible coordination parameters as follows (referenced from ECC Rec. (11)05):

Frequency Band (MHz)	Technology	Coordination Parameters	
		Signal Level	Defined distance from the border
2600 (2500-2690 MHz)	LTE/NR (synchronized)	-80.6 dBm/5 MHz measured at 3 m above ground level	0 km
		-96.6 dBm/5 MHz measured at 3 m above ground level	6 km
	LTE/NR (without synchronized)	-114.4 dBm/5 MHz measured at 3 m above ground level	0 km

Thailand also proposes to implement network synchronization along the common border area using methods as follows:

(a) Synchronize clock signal of base stations along the common border area with the Global Positioning System (GPS) or other systems' signal that can be converted to GPS time scale.

(b) Use a common frame structure (TD-LTE Configuration 2)

2.2 TDD-FDD case

Since there is no ECC recommendation providing references on coordination parameters for TDD-FDD case yet, Thailand proposes 3 possible options for consideration as follows:

Option	Reference	Coordination Parameters	
		Signal Level	Defined distance from the border
1	Apply the coordination parameters from TDD-TDD case (without synchronized)	-114.4 dBm/5 MHz measured at 3 m above ground level	0 km
2	Example of a multilateral agreement between Austria, Croatia, Hungary and Slovenia	10.5 dBµV/m/5 MHz (-134.9 dBm/5 MHz) measured at 3 m above ground level	0 km
3	A case study from an operator in China coordinated with Hong Kong	-116 dBm/5 MHz	At interfered base station

Thailand invites Myanmar to further study coordination parameters for TDD-FDD case.

3. Proposal

Myanmar is invited to consider the possible coordination parameters and network synchronization methods for TDD-TDD case and, if applicable, the possible coordination parameters for TDD-FDD case.