

Myanmar

THE GOVERNMENT OF THE UNION OF MYANMAR
MINISTRY OF COMMUNICATIONS, POSTS AND TELEGRAPHS
POSTS AND TELECOMMUNICATIONS DEPARTMENT

Ref: 217-PTD/3-G/0131
Date: 27 January 2000

To

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27 JAN. 2000

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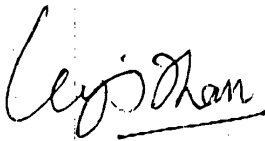
Subject: Questionnaire on national radio frequency spectrum management to seek information needed for responding to Resolution 9 of the World Telecommunication Development conference (WTDC-98 valleta)

Reference: Administrative Circular CA/08, Date 2.11.99

Dear Sir,

With reference to your letter, the questionnaire concerning national radio frequency spectrum management duly completed by this administration is herewith forwarded for necessary action.

With best regards,



(KYI THAN)
Director General
Posts and Telecommunications Department



Section IV - Table of Frequency Allocations (extract from the RR, 1998)

27.5-47 MHz

Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
27.5-28	METEOROLOGICAL AIDS FIXED MOBILE		METEOROLOGICAL AIDS FIXED MOBILE	
28-29.7	AMATEUR AMATEUR-SATELLITE		FIXED MOBILE	
29.7-30.005	FIXED MOBILE		FIXED MOBILE	
30.005-30.01	SPACE OPERATION (satellite identification) FIXED MOBILE SPACE RESEARCH		FIXED MOBILE	
30.01-37.5	FIXED MOBILE		FIXED MOBILE	
37.5-38.25	FIXED MOBILE Radio astronomy S5.149		FIXED MOBILE	
38.25-39.986	FIXED MOBILE		FIXED MOBILE	
39.986-40.02	FIXED MOBILE Space research		FIXED MOBILE	
40.02-40.98	FIXED MOBILE S5.150		FIXED MOBILE	

Read only			The completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocatio	Remarks
40.98-41.015	FIXED MOBILE Space research S5.160 S5.161		FIXED MOBILE	
41.015-44	FIXED MOBILE S5.160 S5.161		FIXED MOBILE	
44-47	FIXED MOBILE S5.162 S5.162A		FIXED MOBILE	

47-75.2 MHz

47-68 BROADCASTING S5.162A S5.163 S5.164 S5.165 S5.169 S5.171	47-50 FIXED MOBILE	47-50 FIXED MOBILE BROADCASTING	FIXED MOBILE	
	50-54 AMATEUR S5.166 S5.167 S5.168 S5.170		FIXED MOBILE	
	54-68 BROADCASTING Fixed Mobile S5.172	54-68 FIXED MOBILE BROADCASTING	FIXED MOBILE	

Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
68-74.8 FIXED MOBILE except aeronautical mobile S5.149 S5.174 S5.175 S5.177 S5.179	68-72 BROADCASTING Fixed Mobile S5.173	68-1.8 FIXD MOILE S5.17 S5.176 S5.179	FIXED MOBILE	
	72-73 FIXED MOBILE			
	73-74.6 RADIO ASTRONOMY S5.178			
	74.6-74.8 FIXED MOBILE			
74.8-75.2	AERONAUTICAL RADIONAVIGATION S5.180 S5.181		aeronautical RADIONAVIGATION	

75.2-137.175 MHz

Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
5.2-87.5 FIXED MOBILE except aeronautical mobile	75.2-75.4 FIXED MOBILE SS.179			
	75.4-76 FIXED MOBILE	75.4-87 FIXED MOBILE	FIXED MOBILE	
	76-88 BROADCASTING Fixed Mobile	SS.149 SS.182 SS.183 SS.188		
	87-100 FIXED MOBILE BROADCASTING		FIXED MOBILE BROADCASTING	
5.175 SS.179 SS.184 SS.187				
88-100 BROADCASTING				
88-100 BROADCASTING				
88-108	BROADCASTING SS.192 SS.194		BROADCASTING	
88-117.975	AERONAUTICAL RADIONAVIGATION SS.197		aeronautical RADIONAVIGATION	
87.975-137	AERONAUTICAL MOBILE (R) SS.111 SS.198 SS.199 SS.200 SS.201 SS.202 SS.203 SS.203A SS.203B		FIXED MOBILE	

Myanmar

Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
137-137.025	SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) S5.208A S5.209 SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R) S5.204 S5.205 S5.206 S5.207 S5.208		FIXED MOBILE except aeronautical Mobile(R)	
137.025-137.175	SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed Mobile-satellite (space-to-Earth) S5.28A S5.209 Mobile except aeronautical mobile (R) S5.204 S5.205 S5.206 S5.207 S5.208		FIXED MOBILE except aeronautical Mobile(R)	

137.175-148 MHz

137.175-137.825	SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) S5.208A S5.209 SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R) S5.204 S5.205 S5.206 S5.207 S5.208		FIXED MOBILE except aeronautical Mobile(R)	
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Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
137.825-138	SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed Mobile-satellite (space-to-Earth) S5.208A S5.209 Mobile except aeronautical mobile (R) S5.204 S5.205 S5.206 S5.207 S5.208		FIXED MOBILE except aeronautical Mobile(R)	
138-143.6 AERONAUTICAL MOBILE (OR) S5.210 S5.211 S5.212 S5.214	138-143.6 FIXED MOBILE RADIOLOCATION Space research (space-to-Earth)	138-143.6 FIXED MOBILE Space research (space-to-Earth) S5.207 S5.213	FIXED MOBILE	
143.6-143.65 AERONAUTICAL MOBILE (OR) SPACE RESEARCH (space-to-Earth) S5.211 S5.212 S5.214	143.6-143.65 FIXED MOBILE RADIOLOCATION SPACE RESEARCH (space-to-Earth)	143.6-143.65 FIXED MOBILE SPACE RESEARCH (space-to-Earth) S5.207 S5.213		
143.65-144 AERONAUTICAL MOBILE (OR) S5.210 S5.211 S5.212 S5.214	143.65-144 FIXED MOBILE RADIOLOCATION Space research (space-to-Earth)	143.65-144 FIXED MOBILE Space research (space-to-Earth) S5.207 S5.213	FIXED MOBILE	
144-146	AMATEUR S5.120 AMATEUR-SATELLITE S5.216		FIXED MOBILE	

Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
146-148 FIXED MOBILE except aeronatical mobile (R)	146-148 AMATEUR S5.217	146-148 AMATEUR FIXED MOBILE S5.217	FIXED MOBILE METEOROLOGICAL AIDS	
148-149.9 FIXED MOBILE except aeronatical mobile (R) MOBILE-SATELLITE (Earth-to-space) S5.29 S5.218 S5.219 S5.221	148-149.9 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) S5.209 S5.218 S5.219 S5.221		FIXED MOBILE	
149.9-150.05	MOBILE-SATELLITE (Earth-to-space) S5.209 S5.224A RADIONAVIGATION-SATELLITE S5.224B S5.220 S5.222 S5.223		FIXED MOBILE	
150.05-153 FIXED MOBILE except aeronatical mobile RADIO ASTRONOMY S5.149	150.05-156.7625 FIXED MOBILE		FIXED MOBILE	
153-154 FIXED MOBILE except aeronatical mobile (R) Meteorological Aids				

Read only			To be completed	
Allocation (services)				
Region 1	Region 2	Region 3	National Allocation	Remarks
154-156.7625 FIXED MOBILE except aeronautical mobile (R) S5.226 S5.227	S5.225 S5.26 S5.227		FIXED MOBILE	
156.7625-156.8375 MARITIME MOBILE (distress and calling) S5.111 S5.226				
156.8375-174 FIXED MOBILE except aeronautical mobile S5.226 S5.229	156.8375-174 FIXED MOBILE S5.226 S5.230 S5.231 S5.232		FIXED MOBILE	
174-223 BROADCASTING S5.235 S5.237 S5.243	174-216 BROADCASTING Fixed Mobile S5.234	174-223 FIXED MOBILE BROADCASTING S5.233 S5.238 S5.240 S5.245	FIXED MOBILE	
	216-220 FIXED MARITIME MOBILE Radiolocation S5.241 S5.242			

220-335.4 MHz

Read only			To be completed	
location to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
	220-225			
223-30 BROADCASTING Fixed Mobile SS.243 SS.246 SS.247	AMATEUR FIXED MOBILE Radiolocation SS.241 225-235 FIXED MOBILE	223-230 FIXED MOBILE BROADCASTING AERONAUTICAL RADIONAVIGATION Radiolocation SS.250	FIXED MOBILE	
230-35 FIXED MOBILE SS.247 SS.251 SS.252		230-235 FIXED MOBILE AERONAUTICAL RADIONAVIGATION SS.250		
235-37	FIXED MOBILE SS.111 SS.199 SS.252 SS.254 SS.256		FIXED MOBILE	
267-72	FIXED MOBILE Space operation (space-to-Earth) SS.254 SS.257		FIXED MOBILE	
272-73	SPACE OPERATION (space-to-Earth) FIXED MOBILE SS.254		FIXED MOBILE	

Rea only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
273-312	FIXED MOBILE S5.254		FIXED MOBILE	
312-315	FIXED MOBILE Mobile-satellite (Erth-to-space) S5.254 S5.255			
315-322	FIXED MOBILE S5.254		FIXED MOBILE	
322-328.6	FIXED MOBILE RADIO ASTRONOMY S5.149			
328.6-335.4	AERONAUTICAL RADIONAVIGATION S5.258 S5.259			

335.4-410 MHz

335.4-387	FIXED MOBILE S5.254		FIXED MOBILE	
387-390	FIXED MOBILE Mobile-satellite (space to-Earth) S5.208A S5.254 S5.255		FIXED MOBILE	
390-399.9	FIXED MOBILE S5.254		FIXED MOBILE	

Myanmar

Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
399.9-400.05	MOBILE-SATELLITE (Earth-to-space) S5.209 S5.224A RADIONAVIGATION-SATELLITE S5.222 S5.224B S5.260 S5.220			
400.05-400.15	STANDARD FREQUENCY AND TIME SIGNAL- SATELLITE (400.1 MHz) S5.261 S5.262			
400.15-401	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) S5.208A S5.209 SPACE RESEARCH (space-to-Earth) S5.263 Space operation (space-to-Earth) S5.262 S5.264		METEOROLOGICAL AIDS	
401-402	METEOROLOGICAL AIDS SPACE OPERATION (space-to-Earth) EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile			
402-403	METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile			
403-406	METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile		METEOROLOGICAL AIDS	
406-406.1	MOBILE-SATELLITE (Earth-to-space) S5.266 S5.267			

Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
4061-410	FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149		FIXED MOBILE except aeronautical MOBILE	

410-470 MHz

410-420	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-space) S5.268		FIXED MOBILE	
420-430	FIXED MOBILE except aeronautical mobile Radiolocation S5.269 S5.270 S5.271		FIXED MOBILE	
430-440 AMATEUR R/DILOCATION S5.138 S5.271 S5.272 S5.273 S5.274 S5.275 S5.276 S5.277 S5.280 S5.281 S5.282 S5.283	430-440 RADIOLOCATION Amateur S5.271 S5.276 S5.277 S5.278 S5.279 S5.281 S5.282		FIXED MOBILE	
440-450	FIXED MOBILE except aeronautical mobile Radiolocation S5.269 S5.270 S5.271 S5.284 S5.285 S5.286		FIXED MOBILE	
440-455	FIXED MOBILE S5.209 S5.271 S5.286 S5.286A S5.286B S5.286C S5.286D S5.286E		FIXED MOBILE	

Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
455-456 FIXED MOBILE S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E	455-456 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) S5.286A S5.286B S5.286C S5.209 S5.271	455-456 FIXED MOBILE S5.209 S5.27 S5.286A S5.286B S5.286C S5.36E	FIXED	
456-459	FIXED MOBILE S5.271 S5.287 S5.288		FIXED MOBILE	
459-460 FIXED MOBILE S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E	459-460 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) S5.286A S5.286B S5.286C S5.209 S5.271	459-460 FIXED MOBILE S5.209 S5.21 S5.286A S5.286B S5.286C S5.86E	FIXED MOBILE	
460-470	FIXED MOBILE Meteorological-Satellite (space-to-Earth) S5.287 S5.288 S5.289 S5.290		FIXED MOBILE	

Read only			To be completed	
Allocation to services				
Region 1	Region 2	Region 3	National Allocation	Remarks
S5.319 S5.323	S5.317 S5.318	S5.149 S5.305 S5.306 S5.307 S5.311 S5.320		

890-1 350 MHz

890-942 FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 Radiolocation S5.323	890-902 FIXED MOBILE except aeronautical mobile Radiolocation S5.318 S5.325	890-942 FIXED MOBILE BROADCASTING Radiolocation S5.327		
	902-928 FIXED Amateur Mobile except aeronautical mobile Radiolocation S5.150 S5.325 S5.326			
	928-942 FIXED MOBILE except aeronautical mobile Radiolocation S5.325			
942-960 FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 S5.323	942-960 FIXED MOBILE	942-960 FIXED MOBILE BROADCASTING S5.320		

QUESTIONNAIRE - PART II
(To be completed by Administrations only)

General Questions on National Spectrum Management

Describe succinctly the problems that your administration is currently experiencing in national spectrum management (for example subject areas in national spectrum management).

Country UNION OF MYANMAR (BRM)

Focal point DIRECTOR GENERAL, POSTS & TELECOMMUNICATIONS DEPARTMENT

The following general questions on national spectrum management are based in part on the functional requirements of spectrum management described in the handbook on "National Spectrum Management." If you need additional space to answer the questions please continue on a separate sheet of paper.

1. Do you have a national law governing spectrum management? YES NO

- Last date this law was changed or modified? _____

- Are any actions planned to change this law? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

This administration is now considering national law governing spectrum management,

Technical assistant from ITU for this case is preferable.

2. Have you published regulations and procedures for national spectrum management (e.g. radio services, license requirements etc.)? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

In 1958, this administration published radio service and license requirement etc To the public.

Information from ITU regarding this subject is preferable.

3. Do you have a national radio frequency spectrum allocation table? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

Radio frequency monitoring is required to examine this national frequency spectrum allocation

table. Radio frequency monitoring is now underway. Equipment and technical assistant is needed for our consideration.

4. Do you have technical specifications for national spectrum use? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

This administration use ITU Radio Regulation for specifications and no other particular specification for type approved. Information assistant will be required for this subject.

5. Do you have a need for any spectrum redeployment* ? YES NO

* The term "redeployment" is used here to refer to a process of national scope in which an assessment is conducted 1) to determine if portions of spectrum can be identified that are in limited use; and 2) to determine if such spectrum segments can be reallocated for use in delivering radiocommunication services that have expanding spectrum requirements.

- If so, do you have a strategy for achieving this redeployment in respective frequency bands and for given radiocommunication services? YES NO

- Please define the established strategy and describe the nature of the consultation, if any, with users regarding the potential costs resulting from the planned redeployment.

6. What is the total cost of national spectrum management functions performed by your Government (expressed in Swiss francs)? _____

- What is the source of the funding required to accomplish these spectrum management functions?

7. Do you have a method for establishing spectrum users' fees? YES NO

- If so, please give a brief description of the method used in establishing those fees.

After this administration get expert mission assistant from APT, we approved the draft method.

8. Do you maintain centralized databases for spectrum management? YES NO

- What is the approximate size of your database (expressed in number of records)?

4500

- Do you have a computerized data base management system (DBMS)?

YES__ NO__

- What DBMS system do you use?

- Are these frequency assignment records available to public?

YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

This administration will get expert mission assistant from APT . We want ITU to give long term basis assltant to fulfil this subject.

9. Do you notify frequency assignments to the ITU?

YES[✓]__ NO__

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

10. Do you have a policy and planning function for national spectrum management (i.e. a national strategy for future use of the spectrum)?

YES__ NO__

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

11. Do you perform technical analyses of frequency assignment requests?

YES__ NO__

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

12. Do you perform radio monitoring?

YES[✓]__ NO__

- number of fixed monitoring stations

1 under process

- facilities available at fixed monitoring stations

-- monitoring up to 300 MHz

-- direction finding up to 29 MHz

18. Do you use the ITU-R Handbooks and Reports on:

- a) National Spectrum Management, version 1995 ?
- b) Spectrum Monitoring¹, version 1995?
- c) Computer-aided Techniques for Spectrum Management, version 1999?
- d) HF Broadcasting System Design, version 1999?
- e) Report SM.2012, Economic Aspects of Spectrum Management, version 1997²?
- f) Windows Basic Automated Spectrum Management System (WinBASMS) Software Version 1997, Manual Version 1997

What additional information/handbooks do you need from the ITU?

Frequency Management and monitoring is one of the main function of this administration.

So we tried to get assitant from regional or international organization. We want ITU-R Handbooks and Reports on item a, b, c & f reference above.

To be returned no later than 31 January 2000 to:

*ITU-D Study Groups Secretariat
Telecommunication Development Bureau
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THANK YOU FOR YOUR COOPERATION

¹ The Spectrum Monitoring Handbook is currently being updated, therefore, you are urged to contact Mr Jan Verduijn (NL), the designated Rapporteur from ITU-R Study Group 1, Working Party 1C if you have any comments that you wish included in a future version of this Handbook.

² This Report SM.2012 was updated during the ITU-R Study Group 1 meeting in August 1999. This new version is expected to be available in the three working languages by January 2000.

