

Pakistan

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**FOCAL POINT REGARDING CORRESPONDENCE ON THIS
QUESTIONNAIRE
(PARTS I AND II)**

1. Mr./Ms MAHBOOB ALI
2. Country PAKISTAN
3. Name of the Administration/Organization FREQUENCY ALLOCATION
BOARD
4. Title VICE CHAIRMAN
5. Address 19 MAUVE AREA, G-8/1, ISLAMABAD, PAKISTAN
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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: PAKISTAN

Focal point : Vice Chairman Frequency Allocation Board Headquarters

Ministry of Communications, 19 Mauve Area, G-8/1

Islamabad, Pakistan

Tel: 92 51 9260183, Fax: 92 51 9260185, E-mail: vcfab@paknet2.ptc.pk

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? 1996
 - 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? No problems

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?

ITU assistance is required for the development of procedures and regulations

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

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

No problems

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?

Training from ITU required

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

* The term "redemption" 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.

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- If so, do you have a strategy for achieving this redeployment in respective frequency bands and for given radiocommunication services? YES_ NO_N/A ✓

- 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.

Not Applicable

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

45 Million Swiss Francs

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

Government of Pakistan and World Bank

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.

Done in comparison with countries of compatible economies

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

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

8500

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

YES ✓ NO __

- What DBMS system do you use?

MS ACCESS

- 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? No

9. Do you notify frequency assignments to the ITU? YES __ NO __ Partly ✓

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them? No

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? No

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?

Software required

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12. Do you perform radio monitoring? YES__ NO ✓
Under installation. Will be complete by December 2000
- number of fixed monitoring stations 10
 - facilities available at fixed monitoring stations
 - monitoring up to 3000 MHz
 - direction finding up to 3000 MHz
 - satellite monitoring up to 22 GHz
 - number of mobile monitoring stations 9
 - facilities available at mobile monitoring stations
 - monitoring up to 3000 MHz
 - direction finding up to 3000 MHz
 - microwave monitoring up to 18 GHz
- Have any problems been identified? and if so, do you need any assistance from the ITU in solving them? No
13. Do you perform technical analyses of radio frequency interference complaints? YES ✓ NO__
- Do you have an established consultation process, involving Government and non-government organization, for resolving these complaints? YES_ ✓ NO__
- Have any problems been identified? and if so, do you need any assistance from the ITU in solving them? No
14. What computers and operating systems are in use for national spectrum management?
- Type of computers Pentium II
 - Operating system(s) Windows 98
- Have any problems been identified? and if so, do you need any assistance from the ITU in solving them? No
15. Number of technical/professional staff in national spectrum management? 55
16. Number of support staff in national spectrum management? 64
17. Describe your country's spectrum management structure (Please enclose a copy of organization chart).
- On next page
18. Do you use the ITU-R Handbooks and Reports on:
- a) National Spectrum Management, version 1995 ? YES
 - b) Spectrum Monitoring¹, version 1995? YES
 - c) Computer-aided Techniques for Spectrum Management, version 1999? NO

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.

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- d) HF Broadcasting System Design, version 1999? NO
- e) Report SM.2012, Economic Aspects of Spectrum Management, version 1997²? NO
- f) Windows Basic Automated Spectrum Management System (WinBASMS) Software Version 1997, Manual Version 1997 NO

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

ARTICLE NO	PUBLICATION TITLE	LANGUAGE	QUANTITY
13845	Radio Regulations on CD-ROM	E	01
14483	ITU-R Recommendations on CD-ROM	E	01
14979	SRS on CD-ROM	E	01
5498	Colloquium no 3- Global Mobile Personal Communications Systems	E	01
11166	Manual on Mobile Communications Development	E	01
15542	Computer-aided techniques for Spectrum Management	E	01
11067	Land Mobile Vol II: Handbook on Principles and Approaches on Evolution to IMT-2000/FPLMTS	E	01
1258	Satellite Communications	E	01
2278	Supplement No 1 to Handbook on Satellite Communications	E	01

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.