

هيئة الاعلام والاتصالات (CMC)
Communication and media commission

Regulations

Land Mobile Radio (LMR)

Version (1.0)

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List of Contents:-

- Article (1): basic frameworks
- Article (2): definitions
- Article (3): mobile radio usage
- Article (4): technical conditions
- Article (5): licensing procedures
- Article (6): coordination processes associated with management of bands allocated for mobile radio services.

Article (1)

Basic framework

1-1. According to the valid order (65) of the year 2004, spectrum management process in Iraq in the exclusive authority of CMC, which is responsible for issuing regulations in order to organize communications and informatics as to provisions and technical terms of ITU.

1-2. Regulations include all standards and technical terms of land mobile services in Iraq, which is identified as (LMR), These regulations should be read in conjunction with regulations issued, or will be issued late on CMC web regarding: aeronautical services, maritime services, national, plan for frequencies distribution and spectrum fees.

Article (2)

Definitions

2-1 these regulations state terms and phrases that should be Defined as to the following:-

2-1-1 commission: communications and media commission

2-1-2 Order (65): CMC valid law

2-1-3 Applicant: means any party applies for license to use spectrum pursuant to commission instructions and regulations.

2-1-4 Person: means natural person or any entity of certain personality.

2-1-5: Application: means the request for license or permit by the commission as to the applicable regulations.

2-1-6 license: it means the permit for using spectrum issued is the commission which allows licensee to use radio frequencies for one year that may be renew according to the commission terms and conditions.

2-1-7 licensee: its means the person who won the commission license.

2-1-8: international telecommunications union (ITU): UN specialized agency dealing with communications affairs and information technology.

2-1-9 Radio regulations (RR): means ITU publications for radio communications adopted by the international conference for radio communications.

2-1-10 international civil aviation organization (ICAO):- a UN agency for civil aviation.

2-1-11 Private mobile radio (PMR): providing radio frequencies transmitting and receiving. It is used to transferring data, and consists of a network. That may contain : fixed station repeater , radio mounted on moving vehicles, portable devices, the station or repeater are fixed , while radio mounted on moving vehicles , portable devices are considered as mobile .

2-1-12 personal mobile radio (PMR 446 MHz): means the land mobile radio that operates in a domain of 446 MHz which is identified by certain features and technical qualities relating to the Ultra High Frequency (UHF) and short range devices (SRD).

2-1-13 Trans-European Trunk Radio (TETRA): it is a digital network to serve the mobile wireless network for (PMR) and for the public mobile wireless (PAMR), therefore it serves in various fields, such as: police, ambulance, fire attack, traffic, security personnel, military forces, public utility, transportations services, and personnel network.

2-1-14 Aeronautical Mobile Services: it is a mobile service between aeronautical stations and planes stations or between plane stations, saving vehicle stations and radio beacon station to limit emergency locations may share the frequency of this service to emergency and help.

2-1-15 Maritime Mobile Services: its mobile service between coastal stations and ships ones, or between ships stations. Saving vehicles stations and radio beacon station may share such service to limit emergency locations.

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Article (3)

Mobile Radio Usage

3.1 The following using of private mobile service is allowed for instant, but not exclusive:

3-1.1 Trans-European Trunk Radio (TETRA) for special using.

3-1-2 Aeronautical Mobile Stations (earth-air)

3-1-3 Maritime Mobile Stations (from coast to ship).

Article (4)

4-1 The table below is considered as a guide for frequencies bands to land mobile services and there using according to the National Table of Frequencies bands distribution in Iraq and as to the ITU recommendations.

Band Frequency	Usages	Notes
14-526.5 KHz	Maritime Mobile Radio	
1-3MHz	Maritime Mobile Radio Aeronautical Mobile Radio® Aeronautical Mobile Radio(OR) Land Mobile Radio (LMR)	Shared band, management should be coordinated with the ministry of defense.
3-30MHz	Maritime Mobile Radio Aeronautical Mobile Radio® Aeronautical Mobile Radio(OR) Land Mobile Radio (LMR)	Shared band, management should be coordinated with the ministry of defense.
117.975-137MHz	Aeronautical Mobile Radio® (Earth-Air)	Military band – ministry of defense approval must be gained before granting the license
146-148MHz	Land Mobile Radio (LMR)	Military band – ministry of defense approval must be gained before granting the license.
148-174	Land Mobile Radio (LMR)	
156.025-158MHz	Maritime Mobile Radio	See annex 18-ITU
160.625-162MHz	Maritime Mobile Radio	See annex 18-ITU
380-382MHz	Trans-European Trunk Radio (TETRA) (transmitting)	
390-392MHz	Trans-European Trunk Radio (TETRA) (Receiving)	
430-450MHz	Land Mobile Radio (LMR)	

Table No. (1) Distribution bands frequency in Iraq for (LMR)

4.2- channels Band Width (B.W) is 2.4 KHz for frequency band (MF.HF), 12.5 KHz for LMR (VHF, UHF), 25 KHz to (TETRA).

4.3 spectrums using of Aeronautical mobile (Earth-Air) should be compatible with regulations issued by commission and media communication (CMC), ITU and annex 10- to the Convention on International Civil Aviation (ICAO).

4-4 spectrum using for maritime mobile service must match with the regulations issued by commission and media communication (CMC) and ITU. Annex No. 18

4.5 commission's approval should be gained for all communications devices which are used for operating the wireless system before being used by any party. Normally it consists (LMR) systems, as to the devices mentioned below according to the systems functioning and the area required to be covered.

4-5-1 Base stations

4-5-2 Mobile units

4-5-3 handheld units

4-5-4 Repeaters

4-6 applicants should provide a list of all details of his wireless system devices mentioned below, after submitting an official application addressed to the commission and media communication (CMC), and filling the form of technical information regarding land mobile service.

4-6-1 Type of equipment

4-6-2 Manufacturer

4-6-3 Model

4-6-4 Serial Number

4-6-5 Antenna Type

4-6-6 Number of Equipment

4-7 Obligation to the capacity values as maximum released clarified in the table below according to the devices type:-

#	Device type	Capacity value release Watt
1	Handheld	5
2	Mobile	50
3	Base station	100
4	Repeater	150

Table No. 2 maximum capacity value in (watt)

4.8 commission and media communication (CMC) will determine the numbers of spectrum allocations for one system pursuant to the purpose of using and requirement.

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Article (5)

Licensing procedures

5-1 study the technical information mentioned in information form of land mobile service (LMR) (a copy of that form may be downloaded from the commission official site www.cmc.iq)

5-2 studying the technical specifications of wireless devices for the system proposed to be operated

5-3 scans all legal documents (if the applicant was not governmental entity)

5-4 allocating reasonable frequency, taking in consideration obligation of applicant to the technical provisions of devices operation clarified in article (4) above.

5.5 calculating spectrum fees according to calculations technique (that will be published on commission site).

5.6 Once again the application should be studied by a technical committee (technically, financially and legally). Then a notice will be issued a devising applicant to pay license fees and completing all technical information of devices (if there is any one missing)

5.7 after completing all technical and legal requirements and paying spectrum fees by the applicant, the license will be issued valid for (one year).

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Article (6)

Coordinative processes associated with band management allocated for land mobile service

6.1 radio frequencies for stations are coordinated at local, regional, and international levels through CMC, for it is the only organization responsible for radio frequencies coordination in Iraq.

6.2 radio frequencies for these stations should be registered in ITU (International Telecommunications Union) through CMC must be advised according to radio regulations.

6.3 there is continues coordination between CMC and ministry of defense regarding military frequencies being administered by them.