



Schedule of Fees Regulation

Contents

List of acronyms	3
1. Definitions.....	4
2. Categories of Fees covered by the Schedule of Fees	8
3. General principles for the determination of Fees	9
4. Exemptions from and reduction of Fees	10
5. Telecommunications Licence Fees.....	11
6. Gross Annual Turnover based Fee	12
7. Frequency Licence Fees	13
7.1. General	13
7.2. Application and Modification Fees applicable to Frequency Licences	14
7.3. Annual Frequency Licence Fees	15
7.4. Temporary Frequency Licence Fee	15
7.5. Minimum Fee	16
7.6. Equipment-based Fees.....	17
7.7. Temporary Frequency Licence Fees for special events (Private Users).....	17
7.8. Application Fee for Interference Investigation	17
8. Numbering Fees.....	18
9. Type Approval Fees	19
10. "Radio Equipment Dealers Licence Fee	20
11. Fees for Public Radiocommunications Station (Mast and Towers) Sites	20
12. Reseller Application Fees	22
Appendix 1: Value of parameters in the formula	23
Appendix 2: Calculations examples.....	25
Appendix 3: Exemptions and reductions section	28

List of acronyms

ACF	Area Coverage Factor
BD	Bahraini Dinar
BW	Bandwidth
ccTLD	Country-code top-level Domain
DF	Demand Factor
DWLF&M	Directorate of Wireless Licensing, Frequency and Monitoring
FREQ	Frequency Factor
LAN	Local area networks
LD	Level Domain
MHz	Mega Hertz
MVNO	Mobile Virtual Network Operator
MVNE	Mobile Virtual Network Enabler
PtA	Point-to-Area
PtP	Point-to-Point
RA	Radiocommunications Authority refers to the Directorate of Wireless Licensing, Frequencies & Monitoring according to Legislation & Legal Opinion Commission decision No. 2008/474 dated 17 April 2008
RFID	Radio-frequency Identification
SRD	Short Range Device
TLD	Top-level Domain
TRA	Telecommunications Regulatory Authority of the Kingdom of Bahrain
UWB	Ultra-Wideband
VSAT	Very Small Aperture Terminal

Schedule of Fees Regulation

1. Definitions

Any capitalised term used in the Schedule of Fees shall have the same meaning as attributed to it in the Telecommunications Law unless the context requires otherwise or it is otherwise specified explicitly herein. Where the Telecommunications Law provides for no definition, the words, phrases, or expressions used in capital letters herein shall have the meaning as specified below, without prejudice to the definition of the ITU Radio Regulations:

- 1.1. "Allotment" (of a radio frequency or radio frequency channel) refers to an authorization given by the Authorities for one or more Radiocommunications Stations to use a radio frequency or radio frequency channel under specified conditions in identified geographical area. This understanding is adopted for the purpose of the Schedule of Fees;
- 1.2. "Annual Frequency Licence Fees" refers to the Fees to be paid to the Authority on an annual basis for the usage of radio frequency spectrum assigned or allotted;
- 1.3. "Application Fee" refers to the Fee to be paid by the applicant as per the provisions of this Regulation to cover the efforts of the Authorities from receiving the application till the final decision, irrespective of whether the application was approved or not.
- 1.4. "Area Coverage Factor" ("ACF"), in radio frequency the 'area sterilized' refers to the area over which a given transmitting station radiates. Intuitively, a wireless communication between any two pieces of Equipment, whether fixed or mobile, requires a link between both. The assignment area will often be a radial area around the base station reflecting both the transmission coverage of the base station and the area of likely interference caused by the mobile stations.
- 1.5. "Assignment" (of a radio frequency spectrum) refers to an authorization given by the Authorities for a station to use a radio frequency or radio frequency channel under specified conditions. This understanding is adopted for the purpose of the Schedule of Fees, without prejudice to the definition of the Telecommunications Law;
- 1.6. "Assignment Fee", in the context of numbering, refers to a Fee which applies when a Licensee is being assigned a number block;
- 1.7. "Authority" refers to the Telecommunications Regulatory Authority
- 1.8. "Authorities" refers to the Authority and the DWLF&M;
- 1.9. "DWLF&M" refers to the Directorate of Wireless Licensing Frequencies & Monitoring;
- 1.10. "Earth Station" refers to a station located either on the earth's surface or within the major portion of the earth's atmosphere and intended for communication with one or more space

Schedule of Fees Regulation

stations; or with one or more stations by means of one or more reflecting satellites or other objects in space, which also covers the VSAT station;

- 1.11. "Equipment-based Fee" refers to cases in which determination of the Annual Frequency Licence Fees depends on the specific Equipment used, these are Fees for marine and coast stations, aircraft call signs and amateurs as listed in the table under section 7.6 of the Schedule of Fees;
- 1.12. "Fee" refers to any payment to be made to the Authority as prescribed in the Schedule of Fees Regulation;
- 1.13. "Frequency Licence Fee" refers to Fee related to annual or temporary usage of radio frequency spectrum;
- 1.14. "Gross Annual Turnover" refers to the total amount of financial inflows generated by a Licensee from the provision of services or performance of activities covered by the Licence;
- 1.15. "Interference Investigation" refer to the interference investigation conducted by DWLF&M upon request of a radio spectrum user or any third party;
- 1.16. "Minimum Fee" refers to the minimal amount to be paid for the usage of assigned/allotted radio frequency spectrum. This amount is relevant with regard to the Annual or Temporary Frequency Licence Fees when the formulas produce a result, which is below that amount;
- 1.17. "Modification" refers to any changes with regard to existing licences and certificates issued by the Authorities;
- 1.18. "Non-Objection Certificate (NOC) Fee" refers to the Fee payable for issuing a NOC;
- 1.19. "Passive Equipment" means any Telecommunications Equipment without any form of power supply or amplification and which does not itself generate any telecommunications signals. Equipment is considered passive if:
 - 1.19.1. its inherent physical characteristics are such that it is incapable of generating or contributing to electromagnetic emissions which exceed a level allowing radio and telecommunications equipment; and
 - 1.19.2. it will operate without unacceptable degradation in the presence of the electromagnetic disturbance normally present in its intended environment.
- 1.20. "Point-to-Area" or "PtA" refers to Assignments/Allotment of radio frequency or radio frequency channel for non-Point-to-Point links. i.e. for one or more stations that are not necessary stationary;
- 1.21. "Point-to-Point" or "PtP" refers to Assignments of radio frequency or radio frequency channel for unidirectional links between fixed locations, including Earth Stations;

Schedule of Fees Regulation

- 1.22. "Private User" means any Person who has been granted a Frequency Licence other than a Public Telecommunications Operator;
- 1.23. "Public Services Receive-only Equipment" refers to any Equipment for receiving of transmissions intended for the general public (e.g. radio and television, as well as navigational aids like Global Positioning Systems (GPS));
- 1.24. "Radio Equipment Dealers Licence Fee" is the license which DWLF&M grants to agents that are authorised to trade (importing, selling and maintenance) in wireless devices, such as PMR equipment and fixed wireless (microwave) equipment and any other wireless equipment provided to ministries, organisations and/or companies;
- 1.25. "Reservation Fee" in the context of numbering refers to a Fee which applies when a Licensee reserves a number block;
- 1.26. "Safety of Life Systems and Services" refer to radio Equipment designed for Safety Services including Radiocommunications Equipment designed for persons with special needs and for safety of patients for which the DWLF&M shall approve the bands or frequencies and type of Radiocommunications Equipment;
- 1.27. "Safety Service" refers to a Radiocommunication used permanently or temporarily for the safeguarding of human life and property;
- 1.28. "Short-Range Devices" (SRD) refers to radio devices that offers a low risk of interference with other radio services, usually because their transmitted power and hence their range is low. SRD are essentially low power Radiocommunication systems. Examples are access control (including door and gate openers); alarms and movement detectors; closed-circuit television (CCTV); cordless audio devices, including wireless microphones; industrial control; local area networks (LAN); medical implants; UWB sensors & radars (such as ground probing radar); remote control; radio frequency identification (RFID); road transport telematics; or telemetry, etc.;
- 1.29. "Spectrum Usage Rights Fees" refers to Fees to be paid for the acquisition of radio frequency spectrum license within the framework of specific allotment processes such as competitive tendering, auction or direct attribution. They are not covered by the Schedule of Fees; and do not exempt the licensee from a Frequency Licence Fee;
- 1.30. "Telecommunications Equipment" means hardware used for the purpose of telecommunication and could be (but not necessary) part of or is connected to, or comprises, a Public Telecommunications Network. This understanding is adopted for the purpose of the Schedule

Schedule of Fees Regulation

of Fees, without prejudice to the definition of the Telecommunications Law which includes the Radiocommunication Equipment;

- 1.31. "Telecommunications Initial Licence Fee" refers to the Fee paid upon notification from the Authority that the Licence application is approved, before such Licence can be issued;
- 1.32. "Telecommunications Renewal Licence Fee" refers to the Fee paid upon the renewal of the Licences for another Licence term, before such Licence can be issued;
- 1.33. "Temporary Frequency Licence Fee" refers to a Fee paid for any use of radio frequency spectrum for a temporary period of time limited to a maximum of eleven (11) months and minimum of one (1) month;
- 1.34. "Temporary Frequency Licence Fee for Special Events" refers to the Fees paid for distinct type of events and is only available to Private Users;
- 1.35. "Terminal Device" refers to any device used by an end user, enabling communication or a relevant component thereof which is intended to be connected directly or indirectly by any means whatsoever to interfaces of communications networks (that is to say telecommunications networks used wholly or partly for the provision of communications services);
- 1.36. "Type Approval" is the term preferred in the context of Fees and has the same meaning as the term "Equipment Approval" used in the Telecommunications Law. The term Type approval is preferred in the present document with regard to Fees as it better reflects international common use;
- 1.37. "Turnover Declaration Form" refers to a statement to be submitted to the Authority by each holder of a Telecommunications Licence for the purpose of the Gross Annual Turnover based Fee;
- 1.38. "Unit Price" refers to a fixed amount used in the formula for determining Fees (where applicable) as is expressed in Bahrain Dinars per 1 MHz of bandwidth per year;
- 1.39. "Technical Support" refer to the field technical support provided by DWL&FM upon a request of any radio spectrum user.

Schedule of Fees Regulation

2. Categories of Fees covered by the Schedule of Fees

The Schedule of Fees covers the following main categories of Fees:

- 2.1. Telecommunications Licence Fees including the following sub-categories:
 - 2.1.1. Telecommunications Licence Application Fees;
 - 2.1.2. Telecommunications Initial Licence Fee; and
 - 2.1.3. Telecommunications Renewal Licence Fee.

- 2.2. Gross Annual Turnover based Fee;

- 2.3. Frequency Licence Fees, including the following sub-categories:
 - 2.3.1. Annual Frequency Licence Fee;
 - 2.3.2. Temporary Frequency Licence Fee;
 - 2.3.3. Temporary Frequency Licence Fee for Special Events (Private Users);
 - 2.3.4. Application and Modification Fee;
 - 2.3.5. Equipment-based Fee;
 - 2.3.6. Application Fee for Interference Investigation; and
 - 2.3.7. Technical Support Fee.

- 2.4. Fees for assignment of numbers (also known as “Numbering Fees”);

- 2.5. Type Approval Fees (also known as equipment approval Fees);

- 2.6. Radio Equipment Dealers Licence Fee;

- 2.7. Fees for Radiocommunication Station (Mast Towers) Sites; and

- 2.8. Reseller Application Fees.

Schedule of Fees Regulation

3. General principles for the determination of Fees

The new approach for determination of Fees introduces a unified Fee policy, which also governs all frequencies managed by the Authorities.

- 3.1. Application Fees are part of revenues collected from the sector to fund the Authority's activities. They are due in respect of the whole process from the application up to the final decision.
- 3.2. Application Fees are payable irrespective of whether the application was approved or not;
- 3.3. Where the spectrum is perceived to have a commercial value, which exceeds the Fees set by the Schedule of Fees, then a separate allotment process (competitive auction, comparative hearings, or direct attribution) is applied to determine the relevant Spectrum Usage Rights Fees;
- 3.4. In order to encourage the efficient use of spectrum and to stimulate growth, the formula for determining Annual and Temporary Frequency Licence Fees have the following characteristics:
 - 3.4.1. The amount of the Fee results from a basic equation that is the product of the volume (i.e. bandwidth) of assigned or allotted radio frequency spectrum (in MHz) and the Unit Price (BD per MHz); and
 - 3.4.2. This basic equation is modified by the inclusion of a number of factors, which aims to implement the spectrum policy pursued by the Authorities.
- 3.5. The factors of the formula might be adjusted from time to time by the Authority according to policy imperatives. The relevant provisions of the Telecommunications Law and other regulations related to stakeholders' consultation shall apply in the case of such adjustments;
- 3.6. This formula-based approach determines the Annual and Temporary Frequency Licence Fees by administrative incentive pricing;
- 3.7. Annual and Temporary Frequency Licence Fees must be at least sufficient and appropriate to promote the optimal use of spectrum and contribute to revenues collected from the sector to fund the Authority's activities. Managing and controlling the use of the radio frequency spectrum are part thereof;
- 3.8. In order to facilitate the management of the Frequency Licence Fees by the Authority and also protect from volatile developments, the concept of a Minimum Fee for spectrum Fees is introduced as a threshold;

Schedule of Fees Regulation

- 3.9. The following factors are accounted for determining Fees:
- 3.9.1. The need to promote easy market entrance, foster competition as well as efficient use of national scarce resources;
 - 3.9.2. The impact of the new Fees on consumers and operators;
 - 3.9.3. The need to reflect, as appropriate, the real value of the spectrum and numbers in the Bahraini market;
 - 3.9.4. Conformity with the Telecommunications Law;
 - 3.9.5. Spectrum availability in particular frequency sub-bands, including those which are highly demanded;
 - 3.9.6. The need to collect sufficient revenues from the sector in order to fund Authority' operations and activities;
 - 3.9.7. The current national numbering ranges and the expected growth; and
 - 3.9.8. The various economic aspects that could be affected by the new Fees structure.
- 3.10. Failure to pay the Fees as resulting from the Schedule of Fees Regulation shall lead to the Authority taking appropriate measures in accordance with the provisions of the Telecommunications Law and other applicable Legal Instruments (including the Licences). Non-payment of the Fees may ultimately lead to the revocation of the Licence. The Authority maintains its right to invoice the Fee(s) even after revocation.

4. Exemptions from and reduction of Fees

- 4.1. Certain activities and services are exempted from the payment of certain Fees. The list of those exemptions is presented in Appendix 3 to the Schedule of Fees and might be adjusted from time to time by the Authority according to the Kingdom's policy imperatives;
- 4.2. Exemption from the payment of Annual and Temporary Frequency Licence Fees remains without prejudice to the duty to pay Application or Modification Fees with regard to the relevant Frequency Licence;
- 4.3. Annual and Temporary Frequency Licence Fees are reduced by a certain percentage (%) for certain users as determined in the list presented in Appendix 3 to the Schedule of Fees Regulation. The list of reductions might be adjusted from time to time by the Authority according to the Kingdom's policy imperatives;
- 4.4. Eventual exemptions or a reduction remains without prejudice to the obligation to comply with other mandatory requirements such as Type Approval.

Schedule of Fees Regulation

5. Telecommunications Licence Fees

- 5.1. The Telecommunications Licence Application Fee is set at BD500, it is a non-refundable fee, which will apply to the initial application and renewal of a Telecommunications Licence;
- 5.2. The Application Fee for a Telecommunications Licence shall be paid at the time of application and shall be non-refundable in the event that the application is not successful;
- 5.3. The following Fees shall also apply with regard to Telecommunications Licence applications:

Table 1: Telecommunications Initial Licence Fee and Telecommunications Renewal Licence Fee

Individual Licence for Paging Services	BD 5,000
Individual Licence for Earth Station Services *	BD 5,000
Individual Licence for Public Access Mobile Radio Services	BD 5,000
Individual Licence for International Telecommunications Facilities	BD 20,000
Individual Licence for International Telecommunications Services	BD 10,000
Individual Licence for National Fixed Services	BD 35,000
Individual Internet Exchange Licence	BD 5,000
Class Licence for Internet Services	BD 5,000
Class Licence for Value Added Services	BD 1,000
Individual Licence for Mobile Virtual Network Operator and/or Enabler	BD 5,000
Unified Licence	BD 5,000
Fixed Telecommunications Infrastructure Network Licence	BD 35,000

* For the purpose of the payment of renewal fees, all previously issued Individual Licences for VSAT Services are considered to be Individual Licences for Earth Station Services.

- 5.4. The Initial Licence Fee is payable upon notification from the Authority that the Licence application is approved, before such Licence is issued;
- 5.5. The Telecommunications Renewal Licence Fees is payable upon the renewal of the Licences for another Licence term;
- 5.6. The Telecommunications Initial Licence Fee and the Telecommunications Renewal License Fee as specified for Unified Licence and MVNO/MVNE License in the table above shall apply in each case if the relevant unified licensing framework or licensing framework for MVNO/MVNE is introduced.

Schedule of Fees Regulation

6. Gross Annual Turnover based Fee

- 6.1. The Fee is 1% of the Gross Annual Turnover of the Licensee resulting from activities covered by the Licence;
- 6.2. Details of the revenues which are not generated by activities from licensed services (non-licensed revenues) should be submitted and explained sufficiently to the Authority;
- 6.3. The Authority has the right to issue an estimated invoice in the case of non-compliance with the Revenue Reporting Regulation. The estimated invoice is subject to adjustment when the Authority receives the required documents;
- 6.4. All operators are subject to uninformed auditing by the Authority to check the validity of the submissions;
- 6.5. The Telecommunications Initial License Fee covers the period from the effective date until the end of the calendar year in which the license is awarded and shall be fixed as specified in Table 1;
- 6.6. The Gross Annual Turnover based Fee shall be payable in respect of each subsequent year.

Schedule of Fees Regulation

7. Frequency Licence Fees

7.1. General

7.1.1. Frequency Licence Fees will apply in many forms including:

- 7.1.1.1. Spectrum Usage Rights Fees;
- 7.1.1.2. Application Fees and Modification Fees;
- 7.1.1.3. Annual Frequency Licence Fees;
- 7.1.1.4. Temporary Frequency Licence Fees;
- 7.1.1.5. Minimum Spectrum Licenses Fees;
- 7.1.1.6. Equipment-based Fees;
- 7.1.1.7. Temporary Frequency Licence Fees for special events (Private Users);
- 7.1.1.8. Application Fee for Interference Investigation; and
- 7.1.1.9. Technical Support Fee.

7.1.2. Spectrum Usage Rights Fees are out of the scope of the Schedule of Fees adopted by this Regulation as they are addressed within the framework of specific allotment processes (competitive auction, comparative hearings, or direct attribution);

7.1.3. Charging of Annual and Temporary Frequency Licence Fees by the Authority shall be per Assignment/Allotment, i.e. per unidirectional link; any bi-directional usage will be subject to an Annual/Temporary Frequency Licence Fee for each direction;

7.1.4. Links between space stations and earth stations shall be treated as PtP links;

7.1.5. Frequency Licence Fees are due from the issuance of the Frequency Licence and pro-rated, i.e. payable for the number of months assigned or allotted. For the purpose of this Regulation, fraction of a month is rounded up to a whole month;

7.1.6. The Authority shall not reimburse any portion of Annual or Temporary Frequency Licence Fees if the Licensee terminates his Frequency Licence before the end of the applicable period;

7.1.7. Application Fees are payable irrespective of whether the application was successful or not;

7.1.8. Frequency Licence, except Temporary Frequency Licence, is renewed automatically for one year if it is not explicitly cancelled or modified, and will be included in the invoice of the following year. Therefore, the Authorities must be formally notified by 30th November of any cancellation or modification of existing frequency licences. Any notification received after this deadline will not be considered. Only notifications submitted after 1st of January will be considered;

7.1.9. If a Licensee wishes to change its Annual Frequency Licence to a Temporary Frequency Licence for the next calendar year or vice versa, it shall inform the Authorities of such change by submitting an application form no later than 1 calendar

Schedule of Fees Regulation

month before expiry of its Licence. Failure to submit an application one time will result in the Licensee becoming liable to pay the relevant Annual Frequency Licence Fees.

7.2. Application and Modification Fees applicable to Frequency Licences

7.2.1. For the whole process of frequency assignment or allotment running from the application to the final decision, an Application or Modification Fee is charged;

7.2.2. The Application Fee is set differently for two (2) categories as follows:

7.2.2.1. BD30 per application for:

7.2.2.1.1. *Marine ship station Licence;*

7.2.2.1.2. *Coast Station Licence;*

7.2.2.1.3. *Aircraft station Licence;*

7.2.2.1.4. *Amateur station Licence; and*

7.2.2.1.5. *Any Licensee adding new radio Equipment to his network as compared to the initial Licence.*

For applications regarding these stations, one application shall be limited to one station, i.e. there shall be a separate application for each station.

7.2.2.2. For all other services and uses of radio frequency spectrum, BD30 per frequency Assignment or Allotment, except for Temporary Frequency Assignments or Allotments for Special Events where the Application Fee is set at BD30 regardless of the number of the requested frequency assignments.

7.2.3. The Modification Fee is also set at BD30 and is charged in the event of any change made to an existing Frequency Licence within the applicable year.

7.2.4. BD10 is charged in the event of the Licensee requesting to issue a replacement of a lost or damaged certificate/license.

Schedule of Fees Regulation

7.3. Annual Frequency Licence Fees

Formula used to determine the Annual Frequency Licence Fees

7.3.1. With the exception of Equipment-based Annual Frequency Licence Fees, which are set separately (in section 7.6), all Annual Frequency Licence Fees are calculated based on the following formula:

$$\text{Annual Frequency Licence Fee} = \text{Unit Price} \times \text{BW} \times \text{FREQ} \times \text{DF} \times \text{ACF}$$

Where the parameters are defined as follows:

7.3.2. Unit Price = A fixed amount expressed in Bahrain Dinars per 1 MHz of bandwidth per year or pro-rated and rounded up to the nearest integer;

7.3.3. BW: Bandwidth (in MHz or part thereof);

7.3.4. FREQ: Frequency Factor reflecting the frequency band of the Assignment/Allotment;

7.3.5. DF: Demand Factor;

7.3.6. ACF: Area Coverage Factor.

7.3.7. The values of parameters used in the formulas are detailed in Appendix 1 of the Schedule of Fees.

7.4. Temporary Frequency Licence Fee

Formula used to determine the Temporary Frequency Licence Fees

7.4.1. As Temporary Frequency Licence Fee, an amount of 1/12 of the Annual Frequency Licence Fee should be charged on a monthly basis. In addition, the Application Fee will be charged once for each temporary period;

7.4.2. The Temporary Frequency Licence Fee is set based on the following formula:

$$\text{Temporary Frequency Licence Fee} = [(\text{Unit Price} \times \text{BW} \times \text{FREQ} \times \text{DF} \times \text{ACF})/12] \times [\text{Duration of temporary Frequency Licence (in number of months, rounded up to the following month)}];$$

Schedule of Fees Regulation

- 7.4.3. The values of parameters in the formula of the Temporary Frequency Licence Fee are the same as defined for Annual Frequency Licence Fees formula;
- 7.4.4. The minimum duration for a temporary assignment is one (1) calendar month and the maximum is eleven (11) calendar months, non-renewable;
- 7.4.5. The Application Fee shall be paid at the beginning of each period of a temporary assignment;
- 7.4.6. In case of any modification of the Licence within the temporary period, a Modification Fee of BD30 is charged. The Authorities reserve the right to reject a request for temporary Assignment/Allotment on the grounds of congestion and/or non-availability during the requested period.

7.5. Minimum Fee

- 7.5.1. When the result of the formula used to calculate the Annual or the Temporary Frequency Licence Fees is below the Minimum Fee, the Minimum Fee applies for the Frequency Licence.

The Minimum Fee is set at the fixed value of 1% of the Unit Price per frequency assignment.

Schedule of Fees Regulation

7.6. Equipment-based Fees

7.6.1. The Annual Frequency Licence Fees for the below category of stations are set out as follows:

Table 2: Schedule of Equipment-based Fees

Category	Spectrum Usage Fee
Marine ship station Licence (private)	BD10
Marine ship station Licence (commercial)	BD100
Aircraft Licence	BD100
Coast station Licence	BD40
Amateur Licence	BD10

7.6.2. The Annual Frequency Licence Fees for these categories of stations are payable for the calendar year irrespective of the application date.

7.6.3. A maximum of 3 years license term is allowed for the Equipment-based categories (listed in Table 2). The annual fees listed in the table are multiplied by the number of years of which a license term is requested.

7.7. Temporary Frequency Licence Fees for special events (Private Users)

7.7.1. The Temporary Frequency Licence for special events is only available for private users and is applicable for a non-renewable maximum period of four (4) weeks. The corresponding Fee is set according to the following table:

Table 3: Special events Temporary Frequency Licence Fees for private users

Bandwidth	Fee
0 – 1 MHz	BD25 per Assignment/Allotment
> 1MHz	BD25 per MHz per Assignment/Allotment

7.8. Application Fee for Interference Investigation

7.8.1. Any spectrum user requesting an investigation on alleged interference cases shall pay an Application Fee;

7.8.2. This fee is called Application Fee for Interference Investigation Application. It is set at BD100 and is non-refundable;

Schedule of Fees Regulation

7.9 Technical Support Fee

7.9.1 This fee is payable upon request from radio spectrum user or any entity to DWL&FM to conduct a field Technical Support that request the existence of full technical team, monitoring equipment and portable inspection station.

7.9.1 The Technical Support Fee is set based on the following formula:

Technical Support Fee = number of days × 100 BD (fraction of a month is rounded up to a whole day)

8. Numbering Fees

The numbering Fees structure is defined as follows:

- 8.1. An Application Fee of BD25 shall be payable for each application made for a reservation or an assignment of a number block. The Application Fee covers the tasks associated with the creation and the deletion of a number block reservation or assignment. For the avoidance of doubt, any request for modification of a number block reservation or assignment is considered as an application;
- 8.2. The Assignment Fee per 8 digit number is set at BD0.100 per annum. The Assignment Fee will be increased by a factor of 10 for each one digit reduction in length of the number. Hence, for a 3 digit short code number, the applicable Assignment Fee is BD10,000 per annum;
- 8.3. The Reservation Fee is set at 80% of the Assignment Fee;
- 8.4. Assignment Fees and Reservation Fees are payable in advance on a quarterly basis. However, the Authority reserves the right to modify the payment terms in the future.

Table 4: Reservation Fees and Assignment Fees for reservation and assignment of numbers

Type	Reservation Fee (BD)	Assignment Fee (BD)	Fee basis
Application	25	25	one-time per application
Per 8 digit number	0.080	0.100	Annually pro-rated per day (from the day of reservation/assignment)
7-digit	0.800	1	Annually pro-rated per day (from the day of reservation/assignment)
6-digit	8	10	Annually pro-rated per day (from the day of reservation/assignment)
5-digit	80	100	Annually pro-rated per day (from the day of reservation/assignment)

Schedule of Fees Regulation

4-digit	800	1,000	Annually pro-rated per day (from the day of reservation/assignment)
3-digit	8,000	10,000	Annually pro-rated per day (from the day of reservation/assignment)

9. Type Approval Fees

- 9.1. The Type Approval Fee schedule is based on four (4) categories:
- 9.1.1. Short Range Devices;
 - 9.1.2. Telecommunications Equipment;
 - 9.1.3. Terminal Devices; and
 - 9.1.4. Passive Equipment.

Table 5: Type Approval Fees

Category	Application Fee	Renewal Fee	Modification Fee
Short Range Devices	50	10	40
Telecommunications Equipment (except Short Range Devices and Terminal Devices)	100	10	80
Terminal Devices	50	10	40
Passive Equipment	10	10	10

Note: All Fees in BD

- 9.2. Fees are payable as per Schedule 5 irrespective of whether the application was successful or not. The type approval certificate shall be valid for the period stipulated in the Resolution No (9) of 2017 on the Approval and Importation of the Telecommunications Equipment connected to Public Telecommunications Network;
- 9.3. The Modification Fee is charged in the event of any change made to an existing Equipment Approval within the applicable year;
- 9.4. The Telecommunications Renewal Licence Fee is charged in the event if Equipment Approval needs to be renewed without any changes in equipment characteristics for new period;
- 9.5. The Non Objection Certificate (NOC) Fee is charged at BD10; and
- 9.6. For any devices referred to in section (7.6.1) operated for personal use, individuals may obtain a Type Approval certificate from the DWLF&M free of charge.

Schedule of Fees Regulation

10. Radio Equipment Dealers Licence Fee

10.1 is the license Fee that is paid to DWLF&M to grant the required License to agents that are authorised to trade (import, sell and maintain) wireless devices, such as PMR equipment and fixed wireless (microwave) equipment;

10.2 An annual BD200 is charges for the Radio Equipment Dealers Licence Fee.

11. Fees for Public Radiocommunications Station (Mast and Towers) Sites

11.1 Operators shall pay to the Authority the following fees for the review of applications and issuance of the Final Permit for the installation of each Public Radiocommunications Station:

Table 6: Fees for issuance of the Final Permit for installation of Public Radiocommunications Station

No.	Type of Public Radiocommunications Station	Fees of Public Radiocommunications Station (BD)
1	Lattice Mast	100
2	Guyed Mast	100
3	Monopole	100
4	Rooftop Mast	100
5	Stub Mast	25
6	Wall Mount	25
7	Temporary Public Radiocommunications Station	50
8	Streetworks	25
9	Small-scale	25
10	Comouflaged	25

11.2 In cases where two or more Operators share a new Public Radiocommunications Station, the initiating Operator shall be responsible for the payment of the fee set forth

Schedule of Fees Regulation

under section 11.1 and may recover part of such fee from the sharing Operator in proportion to its use of such station

11.3 Operators shall pay to the Authority the following fees for the review of applications and issuance of the Final Permit for the upgrade of each existing Public Radiocommunications Station:

Table 7: Fees for issuance of the Final Permit for upgrading of Public Radiocommunications Stations

Type of upgrade or modification	Fee (BD)
Sharing of an existing Public Station Radiocommunications Station	25
Installation of additional Antennas or equipment	25
Structural modifications Public Station Radiocommunications Station	25
Modification to Public Radiocommunications Station that may affect health and safety of the public or the visual impact of such station	25
Modification to Public Radiocommunications Station that will affect the visual impact of such station	25

11.4 In cases of sharing of existing Public Radiocommunications Stations, the requesting Operator shall be required to pay the fee set forth under section 11.3.

11.5 Operators shall pay to the Authority the following fees per Public Radiocommunications Station for the performance of Annual Compliance Audits:

Schedule of Fees Regulation

Table 8: Annual Compliance Fees of Public Radiocommunications Stations

No.	Type of Public Radiocommunications Station	Annual Compliance Fees (BD) of Public Radiocommunications Stations	
		Compliant with Zoning Table*	Non-compliant with Zoning Table*
1	Lattice Mast	50	425
2	Guyed Mast	50	425
3	Monopole	50	425
4	Rooftop Mast	50	425
5	Stub Mast	10	Nil
6	Wall Mount	10	Nil
7	Temporary Public Radiocommunications Station	50 (per week or fraction of week deployed)	
8	Streetworks	10	Nil
9	Small-scale	10	Nil
10	Comouflaged	10	Nil

* Compliant or non-compliant with the zoning table as issued by the Authority.

11.6 In cases where two or more Operators share a Public Radiocommunications Station, the owning Operator shall be responsible for the payment of the fee set forth under section 1 and may recover part of such fee from the sharing Operator in proportion to its use of such station.

Schedule of Fees Regulation

Appendix 1: Value of parameters in the formula

1. Appendix 1 describes the parameters of the formula for determining the amount of Annual and Temporary Frequency Licence Fees in accordance with Section 7 of the Schedule of Fees; the Fees are payable per link (unidirectional).
2. The Unit Price ("Unit Price") is set at BD7,000 per MHz of bandwidth (unidirectional) per year.
3. The Bandwidth ("BW") is the size of the Frequency Assignment/Allotment expressed in MHz (unidirectional).
4. The Frequency Factor ("FREQ") differs according to the frequency band in which the Frequency Assignment/Allotment is requested:

Table 9: Frequency Factors

From frequency (in kHz)	To frequency (in kHz)	Value of Frequency Factor ("FREQ")
3	3,000	1.20
3,000	30,000	1.00
30,000	300,000	0.80
300,000	1,000,000	0.50
1,000,000	3,000,000	0.40
3,000,000	5,000,000	0.30
5,000,000	10,000,000	0.25
10,000,000	20,000,000	0.18
20,000,000	30,000,000	0.10
30,000,000	60,000,000	0.05
60,000,000	Above 60,000,000	0.01

Schedule of Fees Regulation

5. The Demand Factor (“DF”) is determined according to the following table:

Table 10: Demand Factors

Applicable sub-bands, kHz		
From (in kHz)	to (in kHz)	Demand Factor
137,000	144,000	1.50
146,000	149,900	1.50
150,050	156,490	1.50
156,560	156,760	1.50
156,840	174,000	1.50
230,000	312,000	1.50
312,000	328,600	2.00
335,400	470,000	2.00
21,200,000	23,600,000	1.50
24,500,000	26,500,000	1.50
37,000,000	39,500,000	2.90
40,500,000	43,500,000	2.90
74,000,000	76,000,000	0.33
84,000,000	86,000,000	0.33

- a) The Demand Factor reflects the demand for a particular spectrum band; the default value is 1 and is not indicated in the table.
- b) The values specified in the table refer to the sub bands in which the Demand Factor is other than 1. For all other bands not listed in the table, the default value of 1 will apply.
6. The Authority may at their own discretion amend the values of the tables above;
7. The Area Coverage Factor (“ACF”) takes the value of 0.05 for Assignments used for point-to-point communications (per direction), and the value of one (1) in all other cases.

Schedule of Fees Regulation

Appendix 2: Calculations examples

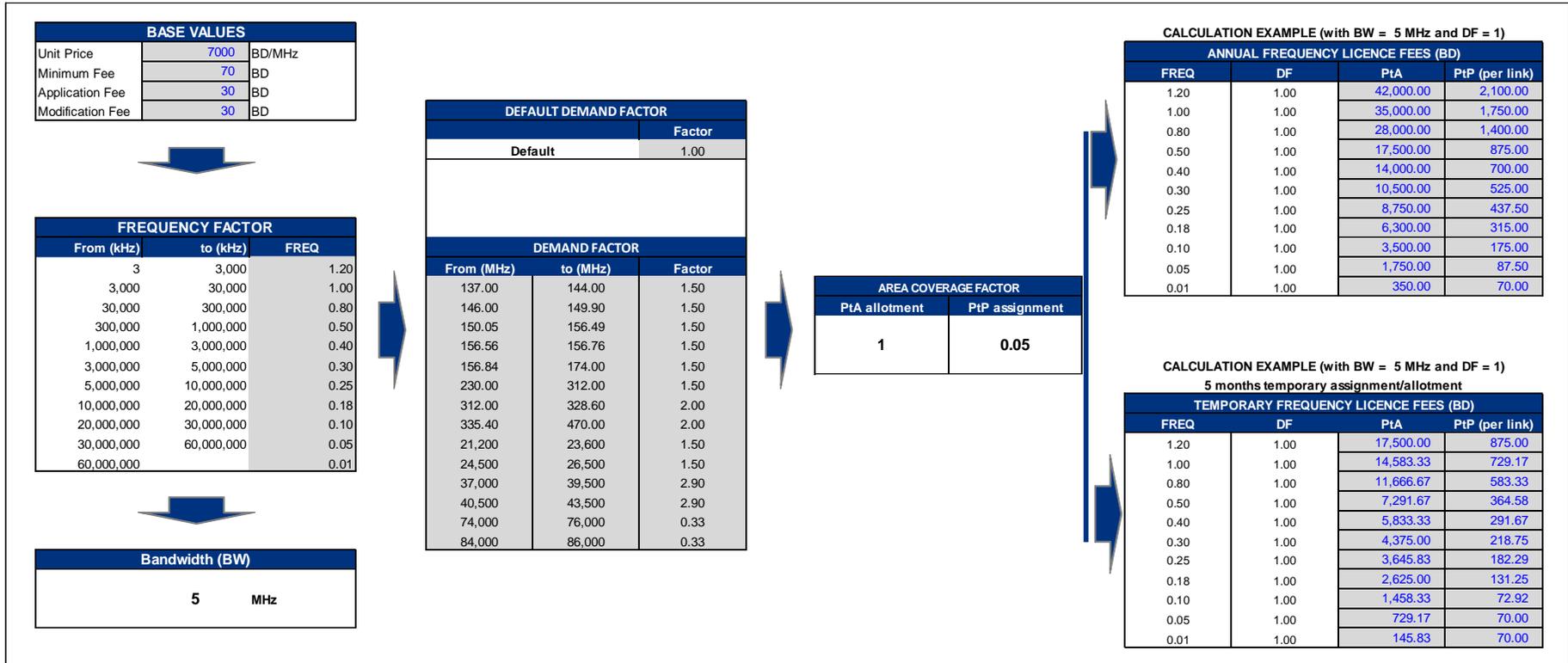
The present section provides examples on how the Annual and Temporary Frequency Licence Fees are calculated based on the formulas.

Standard parameter of a calculation

The table below provides an example of the standard calculation using the highlighted parameters, with the look-up calculation table indicating the annual Fee per MHz per frequency Assignment/Allotted (unidirectional) for all spectrum bands and areas, for Point to Area (PtA) and Point to Point (PtP) where the Demand Factor = 1.

Schedule of Fees Regulation

Figure 1: Schedule of Fees in BD based on Unit Price BD7,000, Bandwidth (BW) = 5 MHz and DF = 1 (default)



Schedule of Fees Regulation

Example 1: (PtP Assignment) calculation

For a PtP Assignment of 1MHz bandwidth in the 38GHz range with high demand area, the Annual Frequency Licence Fee is calculated as follows:

- a) Formula = Unit Price × BW × FREQ × DF × ACF
- b) Unit Price=BD7,000; BW=1MHz; FREQ=0.05; DF=2.9; ACF=0.05
- c) Fee= BD7,000 × 1 × 0.05 × 2.9 × 0.05 = BD50.75
- d) For the present example, the Minimum Fee of BD70 would apply per Assignment, which is 1% of the Unit Price. Therefore, the Fee for unidirectional link would be BD70.
- e) The Fee for bi-directional link would thus be BD 70 × 2=140.

Example 2: (PtP Assignment) calculation

It is assumed that the link will operate in 28GHz band which is a band with normal demand, i.e., it is none of the sub bands listed in the Table of Demand Factor presented in the Schedule of Fees, the Annual Frequency Licence Fee is calculated as follows:

- a) Formula = Unit Price × BW × FREQ × DF × ACF
- b) Unit Price=BD7,000; BW=1MHz; FREQ=0.1; DF=1; ACF=0.05
- c) Fee= BD7,000 × 1 × 0.1 × 1 × 0.05 = BD35
- d) For the present example, the Minimum Fee of BD70 would apply per Assignment, which is 1% of the Unit Price. Therefore, the Fee for unidirectional link would be BD70.
- e) The Fee for bi-directional link would thus be BD 70 × 2= 140.

Example 3: (PtA Nationwide Allotment) calculation

A nationwide Allotment of 5MHz bandwidth in the 2100MHz range with normal demand (in none of the sub bands listed in the table presented in the Schedule of Fees), the Annual Frequency Licence Fee is calculated as follows:

- a) Formula = Unit Price × BW × FREQ × DF × ACF
- b) Unit Price=BD7,000; BW=5MHz; FREQ=0.40; DF=1; ACF=1
- c) Fee= BD7,000 × 5 × 0.40 × 1 × 1 = BD14,000

Example 4: (Temporary PtA Nationwide Allotment) calculation

An interested user applies for the same Allotment as in the example 3 above, the difference being that it is only for a period of 7 months (temporary Allotment);

The Temporary Frequency Licence Fee is calculated as follows:

- a) Formula = [(Unit Price × BW × FREQ × DF × ACF)/12] × [Duration of temporary Frequency Licence (in number of months)]

Schedule of Fees Regulation

- b) The Temporary Unit Price would be the total of 7/12 of Unit Price used for the Annual Frequency Licence Fee, i.e. $BD7,000 \times 7/12 = 4,083.333$. This amount shall be rounded to nearest integer. Thus, the Temporary Unit Price for 7 months would be BD4,083
- c) $Fee = 4,083 \times 5 \times 0.40 \times 1 \times 1 = BD8,166$

Appendix 3: Exemptions and reductions section

Scope

The Schedule of Fees shall not apply with regard to Radio frequency spectrum, telecommunications networks and services used by the Bahrain Defence Forces and all security organs in the Kingdom pursuant to the Second Article of Legislative Decree No, 48 of 2002 promulgating the Telecommunications Law.

Exemptions pursuant to this section

1. Following activities and services are exempted from the payment of Frequency Licence Fees:
 - 1.1. Certain categories of wireless systems as listed below:
 - I. Public Services Receive-only Equipment, including, but not limited to terrestrial and satellite TV and Radio receivers, GPS, etc.;
 - II. Short Range Devices (SRDs);
 - III. Frequencies used by Amateur, standard marine channels, exclusive frequencies for Radio Location service & exclusive frequencies for Radio Navigation service.
 - 1.2. Any other activities, systems or spectrum use as might be determined by the Authorities from time to time according to general policy imperatives.

Schedule of Fees Regulation

2. Individuals entering the Kingdom are exempted from Type Approval Fees with condition that such devices conform with applicable regulations in the kingdom with regard to any of the Equipment listed in the table below, provided that the Equipment are designed to his personal use and the number (units) of Equipment does not exceed five (05) per individual.

Equipment exempted from Type Approval Fees	
Designation	Regulatory and technical requirements
Cellular mobile handheld	as per national type approval requirements
Electronic gadgets	as per national type approval requirements
SRDs	As per national SRD regulation
Personal computing devices with embedded SRDs	As per national SRD regulation

3. The list of exemptions might be adjusted from time to time by the Authorities according to the Kingdom's policy imperatives.

Reductions pursuant to this section

4. Fee for certain activities, systems or spectrum uses shall be reduced by a certain percentage (%) for certain users, the applicable percentage (%) of reduction will be determined by the Authorities according to policy imperatives;
5. The list of reductions might be adjusted from time to time by the Authorities according to the Kingdom's policy imperatives;
6. A list of activities, systems or spectrum uses that shall benefit from a reduction will be adopted once the Authorities have considered it necessary or required to do so.