



# LESOTHO COMMUNICATIONS AUTHORITY

Application Form for Radio Alarms

Form 09

Physical Address: 30 Princess Margaret Road, Old Europa, Maseru Tel.: + 266 22224300

Postal Address: LCA, P.O. Box 15896, Maseru 100.

E-mail: [licensing@lca.org.ls](mailto:licensing@lca.org.ls)

**Note:** This form shall be completed by a person who has been duly authorised in writing to act as a representative of the Licensee<sup>1</sup>. Any information requested which does not fit in the form may be included in an appendix to this form. You are advised to fill in ***all the information*** to avoid delays in the processing of your application.

## 1. PARTICULARS OF AN APPLICANT

1.1	Full Name of applicant	
1.2	Abbreviated Name	
1.3	Physical Address	
1.4	Postal Address	
1.5	Telephone Number	
1.6	e-mail	
1.7	State legal form of applicant e.g. company, trust, other	

*(Please attach a copy of company extract, certificate of incorporation, certified copy of the constitution or founding document)*

1.8	If registered, office of registration	
1.9	Registration Number	
1.10	Date of registration	

## 2. APPLICATION INFORMATION

2.1	Purpose for which the proposed communication is required	
2.2	Do you hold any other licence issued by the Authority?	
2.3	If so, what type of a licence?	

## 3. STATION ADMINISTRATION

3.1	Station Location	
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## 4. STATION DETAILS

4.1	Total Number Of Stations	
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## 5. SITE DETAILS

5.1	Station Name								
5.2	Station Location								
5.3	Coordinates	Latitude, S				Longitude, E			
5.4	Elevation AMSL (m)								

<sup>1</sup> Attach certified ID/passport copy of the Director or authorized representative of the licensee.

5.5	Transportable <input type="checkbox"/>	Radius if transportable (km)	
5.6	Building height (m)		Mast height (m)
5.7	Noise environment	1. Low Noise <input type="checkbox"/>	2. Medium Noise <input type="checkbox"/> 3. High Degree of Noise <input type="checkbox"/>
<b>6. EQUIPMENT INFORMATION</b>			
6.1	Manufacturer		
6.2	Model		
6.3	Equipment Type: 1. Crystal <input type="checkbox"/> 2. Solid state <input type="checkbox"/> 3. Unknown <input type="checkbox"/> 4. PLL Control <input type="checkbox"/> 5. Synthesised <input type="checkbox"/>		
6.4	Frequency Range (MHz):	From	to
6.5	TX/RX	1. Transmitter <input type="checkbox"/>	2. Receiver <input type="checkbox"/> 3. Both <input type="checkbox"/>
6.6	Maximum Rated Power (W)		
6.7	Transmit Power (W)		
<b>7. ANTENNA INFORMATION</b>			
7.1	Manufacturer		
7.2	Model		
7.3	Frequency Range (MHz):	From	To
7.4	Polarisation		
7.5	Gain (dB)	TX	RX
7.6	Antenna height above ground (m)		
7.7	Directivity	1. Directional <input type="checkbox"/>	2. Omni-directional <input type="checkbox"/>
7.8	Azimuth (degrees)		
7.9	Elevation (degrees)		
7.10	<b>Antenna Pattern;</b> Please attach data page from manufacturer, <b>or</b> provide table of attenuation, in dB, against angle, <b>or</b> provide <b>calibrated</b> pattern diagram		
8.	<b>COVERAGE</b>		
8.1	Coverage Area/Location		
8.2	Coverage Radius		
8.3	<b>Please attach a diagram to illustrate the area proposed for coverage</b>		
<b>9. FREQUENCY ASSIGNMENT</b>			
9.1	Requested frequency Range (MHz)		to
9.2	Necessary Bandwidth (MHz)		
9.3	Emission Class (use the characters in Annex 1 to describe your signal)		
9.4	TX/RX	1. Transmitter <input type="checkbox"/>	2. Receiver <input type="checkbox"/> 3. Both <input type="checkbox"/>
9.5	Preferred Frequency (MHz)		
9.6	Line Loss (dB)		
9.7	Minimum Receive Signal (dBW) (Protected Signal)		
<b>10. ACKNOWLEDGEMENT</b>			
10.1 The applicant acknowledges the statements in this form and accompanying documents are true and correct.			
Signature _____ Date _____			
Full names of signatory _____			

## ANNEX 1

### **First Character (Mandatory)**

<b>A</b>	Double sideband.
<b>B</b>	Independent sidebands.
<b>C</b>	Vestigial sideband.
<b>D</b>	Emission in which the main carrier is amplitude and angle modulated either simultaneously or in a pre-established sequence.
<b>F</b>	Frequency modulation.
<b>G</b>	Phase modulation.
<b>H</b>	Single sideband, full carrier.
<b>J</b>	Single sideband, suppressed carrier.
<b>K</b>	Modulated in amplitude.
<b>L</b>	Modulated in width/duration.
<b>M</b>	Modulated in position/phase.
<b>N</b>	Emission of unmodulated carrier.
<b>P</b>	Sequence of unmodulated pulses.
<b>Q</b>	In which the carrier is angle modulated during the period of the pulse.
<b>R</b>	Single sideband, reduced or variable level carrier.
<b>V</b>	Which is a combination of the foregoing or is produced by other means.
<b>W</b>	Cases not covered above, in which an emission consists of the main carrier modulated, either simultaneously or in a pre-established sequence, in a combination of two or more of the following modes: amplitude, angle, pulse.
<b>X</b>	Cases not otherwise covered.

### **Second Character (Mandatory)**

<b>0</b>	No modulating signal.
<b>1</b>	A single channel containing quantized or digital information without the use of a modulating sub-carrier. This excludes time-division multiplex.
<b>2</b>	A single channel containing quantized or digital information with the use of a modulating sub-carrier. This excludes time division multiplex.
<b>3</b>	A single channel containing analogue information.
<b>7</b>	Two or more channels containing quantized or digital information.
<b>8</b>	Two or more channels containing analogue information.
<b>9</b>	Composite system with one or more channels containing analogue quantized or digital information, together with one or more channels containing analogue information.
<b>X</b>	Cases not otherwise covered.

### **Third Character (Mandatory)**

<b>A</b>	Telegraphy for aural reception.
<b>B</b>	Telegraphy for automatic reception.
<b>C</b>	Facsimile.
<b>D</b>	Data transmission, telemetry, telecommand.
<b>E</b>	Telephony (including sound broadcasting).
<b>F</b>	Television (video).
<b>N</b>	No information transmitted.
<b>W</b>	Combination of the above.
<b>X</b>	Cases not otherwise covered.

### **Fourth Character (Optional)**

<b>A</b>	Two-condition code with elements of differing numbers and/or durations.
<b>B</b>	Two-condition code without elements of the same number and duration with error-correction.
<b>C</b>	Two-condition code with elements of the same number and duration with error-correction.
<b>D</b>	Four-condition code in which each condition represents a signal element (of one or more bits).
<b>E</b>	Multi-condition code in which each condition represents a signal element (of one or more bits).
<b>F</b>	Multi-condition code in which each condition or combination of conditions represents a character.
<b>G</b>	Sound of broadcasting quality (monophonic).
<b>H</b>	Sound of broadcasting quality (stereophonic or quadrophonic).
<b>J</b>	Sound of commercial quality (excluding categories given in K and L below).
<b>K</b>	Sound of commercial quality with the use of frequency inversion or band-splitting.
<b>L</b>	Sound of commercial quality with separate frequency-modulated signals to control the level of demodulated signal.
<b>M</b>	Monochrome television (video only).
<b>N</b>	Colour television (video only).
<b>W</b>	Combination of the above.
<b>X</b>	Cases not otherwise covered.

### **Fifth Character (Optional)**

<b>N</b>	No multiplexing employed.
<b>C</b>	Code division multiplex. (This includes bandwidth expansion techniques).
<b>F</b>	Frequency-division multiplex.
<b>T</b>	Time-division multiplex.
<b>W</b>	Combination of frequency-division multiplex and time-division multiplex.
<b>X</b>	Other types of multiplexing.