

No. R. 291

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REGULATIONS IN RESPECT OF APPLICATIONS FOR RADIO FREQUENCY SPECTRUM LICENCES, STATION LICENCES, CERTIFICATES AND AUTHORITIES

In terms of section 95(3) of the Telecommunications Act, 1996 (Act no. 103 of 1996), I, Dr. Ivy Matsepe-Casaburri, Minister of Communications, hereby approve the regulations in the Schedule made by the Independent Communications Authority of South Africa in terms of section 95(1) read with section 30(2)(b) of the said Act.

Dr. Ivy Matsepe-Casaburri
Minister of Communications

SCHEDULE**Definitions**

In this schedule any expression shall have the same meaning ascribed to it in the Telecommunications Act, 1996, (Act 103 of 1996), unless the context indicates otherwise.

PROCEDURES IN RELATION TO APPLICATIONS FOR RADIO FREQUENCY SPECTRUM LICENCES, STATION LICENCES, CERTIFICATES AND AUTHORITIES (SECTION 30(2)(b))

1. The relevant application form obtainable at any office of the Authority must be completed in full and submitted with the prescribed application fee at any office of the Authority.
2. In cases where the frequency(ies) on the existing licence is an exclusive frequency(ies) and not a shared frequency(ies), a business plan along the lines shown in Appendix A must be submitted by the applicant.
3. A business plan shall not be submitted with regard to applications made by the South African National Defence Force, South African Police Services, National Intelligence Agency, Certificate and Licence holders such as Maritime, Aeronautical, Citizen Band, Civil Defence/Marinet, Amateur Radio,

27 MHz and 29 MHz band two-way Radio, Shared Simplex HF, VHF and UHF, Very Short Range Band and Low Power Devices.

4. In the event that the applicant is a juristic person or an association, a certified copy of the applicant's registration certificate or constitution of the association must also be submitted with the application form.
5. When applying for a General Certificate of Competency in Radio Telephony (Aeronautical) Restricted Radio Operator's Certificate (Aeronautical), General Operator's Certificate (Maritime), Restricted Radio Certificate (Maritime), Global Maritime Distress and Safety Systems (GMDSS), the following must be supplied by the applicant:
 - (i) Examination results.
 - (ii) Completed entry form for examination.
 - (iii) Two identical passport size ID photos.
 - (iv) The prescribed application fee.
6. When applying for a licence for high frequency cross border communication system in a territory other than in the Southern African Development Community, the following must be supplied by the applicant:
 - (i) Completed application form.
 - (ii) A copy of the licence issued in the foreign country.
 - (iii) Proof of validity of the foreign licence.
 - (iv) Indication that point to point communication is required.
 - (v) Completed form of notice (AP1/A15) in respect of a transmitting terrestrial station.
 - (vi) The prescribed application fee.
7. When applying for a licence for high frequency cross border communication system in the Southern African Development Community, the following must be supplied by the applicant:
 - (i) Completed application form.
 - (ii) The prescribed application fee.
8. When applying for an Amateur Radio Operator's Certificate required for an Amateur Radio Station Licence, the following must be supplied by the applicant:
 - (i) Completed application form.
 - (ii) Examination results.
 - (iii) The prescribed application fee.

9. When applying for an authority to operate Radio Apparatus, authorising the holder of any certificate of competence to operate radio apparatus in accordance with the provisions of such certificate the following must be supplied:

- (i) Certified copy of the original certificate to be evaluated.
- (ii) Completed application form.
- (iii) The prescribed application fee.

10. No application will be considered if there is any outstanding licence fee owed by the applicant to the Authority.

Appendix A

Appendix to Frequency Assignment/Radio Licensing Guideline

Information Required for the Evaluation of Licence Applications

Introduction Applicants must provide sufficient detail in the business plan to enable SATRA to analyse and determine from the plan alone, the extent to which the plan would lead to a sustainable business.

Information required Please provide the following information in respect of:

1. Applicant
2. Description of service
3. Market analysis
4. Construction of the network
5. Technical information on system design
6. Business planning
7. Tariffs and fees.

Note:

See below for detail on each of these points.

Very important Note that SATRA may incorporate the information given in this business plan as conditions in the licence.
See point 8.

1. Applicant Please provide the following information:

No.	Information required
a	<ul style="list-style-type: none"> • Name, address and registration number of Applicant • Company's registration certificate • Names & addresses of directors & principal executives • Company/associations's main objective & constitution
b	Annual Reports of the applicant and its main shareholders for the previous three years, when available
c	Full particulars of the experience and expertise of the Applicant, its shareholders, partners, suppliers and contractors in the business contemplated
d	<ul style="list-style-type: none"> • Extent of beneficial ownership of the applicant by the historically disadvantaged • Extent of beneficial ownership by women.

2. Description of service Please provide the following information:

No.	Information required
a	A full description of the services to be provided
b	Proposed annual coverage, roll-out indicating the exact areas and location concerned
c	Guarantees that the proposed coverage will be met
d	Guarantees as required by the Frequency Assignment/Licensing Guidelines.

Market analysis Please provide the following information:

No.	Information required
a	Projection of the market size and the different target markets
b	Marketing strategy for the first five years of service
c	Types of services to be provided to different target markets
d	Marketing strategy
e	Distribution strategy for customer equipment.

4. Construction of the network Please provide the following information:

No.	Information required
a	Availability and experience of planning and project management capabilities required for construction of the network
b	Mechanisms used for the planning of any radio portion of the network
c	Plans to acquire resources such as access to sites, other property, technology, personnel and capital.

Technical information (system design)

Indicate the technical, operational and maintenance aspects of the proposed telecommunications system. Some of these aspects could be as follows:

No.	Information required
a	A full description of the technology to be implemented
b	The Applicant's approach to network development and expansion
c	Description of all interfaces in the network

d	Requirements for interconnection to other telecommunications networks or services and the transmission medium and links required
e	Upgrading of the network to new standards and technical developments
f	Compliance with recognised international technical standards and specifications.

No.	Information required	Explanation
g	Details of radio network planning including methods to reserve frequency:	
	Site-Name/s	Name of the place where equipment is located
	Site Code	Code assigned to place
	Site/s Co-ordinates (ddmmss)	Geographical co-ordinates used to locate a place on a map: ddmmss = degrees, minutes, seconds
	Frequency/ frequencies	Air waves through which radio waves are transmitted
	Bandwidth of Transmitted Signal (MHz)	Amount of frequency occupied by the transmitted signal
	Modulation Scheme and Bit-Rate	Method and speed of transmitting radio signal
	Antenna Site	Where antenna is situated
	Antenna Type	Type of antenna
	Antenna Diameter (meter)	Diameter of antenna
	Antenna Gain (dB)	<ul style="list-style-type: none"> Given in specifications for antenna dB = decibel
	Antenna Polarisation (H/V)	<ul style="list-style-type: none"> Polarisation – horizontally or vertically polarised transmission H/V = horizontal/vertical
	Transmit Power (dBm/Watt)/ Receiver Sensitivity Threshold (dBm)	<ul style="list-style-type: none"> Wattage (Watt = measurement of power) Receiver sensitivity threshold = the lowest value that can be detected by a receiver
	Fixed Loss (dB): Transmit and receive	Percentage of lost power
	Type of Service	Whether it is data service, voice, paging, telemetry etc
	Area and Direction of Operation	Geographical area of service

**Notes on
(5g)**

Please note the following further explanations in respect of point (5g) in the table on the previous page:

Term	Explanation
Bandwidth	Refers to the actual Bandwidth of the Signal Transmitted and not to the Baseband value, for example
Baseband value	This is the frequency during the signal processing stage
Reflectors	In the case where a Reflector is used as part of a Radio link, the Link will be treated as consisting of two parts, ie. two separate links. The applicant must calculate hypothetical values for <ul style="list-style-type: none"> • antenna parameters • transmit power etc. in order to supply the information required for the Site containing the Reflector.

**Diagrams or
sketches
(5g)**

Applicants must supply diagrams or sketches of proposed operations, systems or Radio Links for *explanatory purposes*.
Insufficient or incorrect information will result in an unsuccessful application.

No.	Information required
h	Adherence to EMC specifications
i	Theoretical traffic volume forecasts and alternate routing and redundancy requirements
j	Numbering plan for the service
k	Quality systems employed and the quality targets used
l	Details of fixed network planning
m	Presentation of network planning data in the form of schedules, tables, diagrams and maps for the initial phase and two subsequent phases
n	Network management, fault detection, service and maintenance mechanisms
o	Equipment specifications/type approval certificates
p	Regulatory requirements (ITU & Radio Act)
q	Technical expertise
r	Service monitoring capabilities.

6. Business planning Please provide the following information:

No.	Information required
a	The fundamental assumptions for the business plan
b	Indication of all factors over which the Applicant has no control
c	Balance sheet, profit and loss accounts, cash flow statement, discounted cash flow statement for the first five years
d	A sensitivity analysis showing how costs to the subscriber changes with a 10% variation in the factors indicated in (b)
e	Key financial policies such as dividend rate, debt to equity ratio, etc
f	Full particulars of financing requirements and how the operation will be financed throughout the licence period
g	The amount of external capital used must be clearly indicated (both loans and equity).

7. Tariffs and fees Please provide the following information:

No.	Information required
a	A full tariff plan indicating all tariffs and fees to be charged at the wholesale level and the subscriber level when the service is launched
b	Projection of the tariffs and fees up to the fifth year
c	Substantiated costs for the customer equipment and an estimate of charges in unit costs
d	Data management and billing systems.

8. Important: general notes Please take careful note of the following important points:

No.	Information required
a	Should a licence be issued, the information contained in the business plan may be incorporated by SATRA as conditions in the licence
b	Licensees will be required to supply certain data on an annual basis on issues such as empowerment, employment and training of the historically disadvantaged, women and the disabled.