

Annexure E. Extended Application Procedures

- (1) The relevant application form obtainable at any office of the Authority shall be completed in full and submitted with the prescribed application fee at any office of the Authority.
- (2) For applications subject to the extended application procedures, the following information shall be provided unless otherwise specified in these or other regulations.
- (3) If the information to be supplied is not applicable, then the term 'not applicable' shall be written with a short explanation.

(I) APPLICANT DETAILS

No.	Information Required
1	Name, address, identification number telephone number and Email address of applicant <ul style="list-style-type: none"> • If the applicant is a South African citizen a copy of the identity document shall be submitted to the Authority. • If the applicant is a foreigner a copy of the passport as well as proof of status shall be submitted to the Authority. In the case of companies <ol style="list-style-type: none"> a. A certified copy of the Company's registration certificate b. Name and address of directors and/ or principal executives
2	Annual report of the applicant and its main shareholders from the previous three years (where available)
3	Full particulars of the experience and expertise of the applicant, its partners, shareholders, suppliers and contractors in the business contemplated
4	Extent of beneficial ownership of the applicant by the historically disadvantaged persons Extent of beneficial ownership by women Extent of beneficial ownership by the youth Extent of beneficial ownership by the disabled

(II) DESCRIPTION OF SERVICE

No.	Information Required
1	Description of service to be provided
2	Proposed annual coverage, rollout indicating the exact areas and location covered

(III) CONSTRUCTION OF THE NETWORK (RADIO COMPONENT)

No.	Information Required
-----	----------------------

1	Availability and experience of planning and project management capabilities required for construction of the network
2	Mechanisms used for the planning of any radio component of the network
3	Plans to acquire resources such as access to sites, other property, technology, personnel and capital

(IV) BUSINESS PLAN

Should a Radio Frequency Spectrum Licensee issued, the information contained in the business plan may be incorporated as licence conditions.

No.	Information Required
1	Fundamental assumptions for the business plan with financial forecasts for a minimum period of three years.
2	A market analysis of the services contemplated to be offered through the radio frequency spectrum licence applied for, including forecast demand.
3	Description of products and services to be offered through the radio frequency spectrum licence applied for.
4	Description of pricing strategy for products and services to be offered through the radio frequency spectrum licence applied for.

(V) TECHNICAL INFORMATION (RADIO SYSTEM DESIGN)

No.	Information Required		
1	Full information of the technology to be implemented		
2	Approach to network development and expansion		
3	Description of all the relevant or important interfaces in the network		
4	Requirements for interconnection to other telecommunication networks or services and transmission medium and links required		
5	Upgrade of the network to accommodate new standards and technology developments		
6	Compliance with recognized international standards and specifications		
7	Details of radio planning including methods to reserve frequency		
7.1	<table border="1"> <tr> <td>Site names</td> <td>Name of place where equipment is located</td> </tr> </table>	Site names	Name of place where equipment is located
Site names	Name of place where equipment is located		

7.2	Site code	Code assigned to place
7.3	Site coordinates	Geographic coordinates to locate places on maps in degrees, minutes and seconds (ddmmss)
7.4	Frequency (Hz)	Airwaves through which the radio waves are transmitted
7.5	Bandwidth (MHz)	Amount of frequency occupied by the transmitted signal (RF bandwidth)
7.6	Modulation scheme	Method of transmitting radio signals
7.7	Bit rate (bits/s)	Speed of transmitting radio signals
7.8	Antenna site	Where antenna is situated
7.9	Antenna type	Type of antenna
7.10	Antenna diameter (m)	Diameter of antenna
7.11	Antenna gain (dB)	Gain of antenna in terms of decibels (dB)
7.12	Antenna polarization (H/ V)	Horizontally or vertically polarized
7.13	Transmit power (dbm/ Watt)	Transmitted power at the output of antenna
7.14	Receiver sensitivity threshold (dBm)	Lowest value of signal detected by receiver
7.15	Fixed loss (dB): transmit and receive	Percentage of lost power
7.16	Type of service	Data service, voice, paging, telemetry etc
7.17	Area and direction of operation	Geographical area of service
8	Applicants must provide diagrams or sketches of proposed operations	
9	Adherence to EMC specifications	
10	Theoretical traffic volume forecasts and alternative routing and redundancy requirements	

11	Numbering plan for the service:
12	Quality systems deployed and quality targets used:
13	Details of fixed network planning
14	Presentation of network planning data in the form of schedules, diagrams, tables and maps for the initial phase and two subsequent phases
15	Network management, fault detection, service and maintenance mechanisms
16	Equipment specifications, type approval certificates
17	Regulatory requirements (ITU and Act)
18	Technical expertise
19	Service monitoring capabilities
20	<p style="text-align: center;">Critical Efficiency Factors</p> <p>a. Technical (spectral efficiency) - defined in terms of maximum volume of traffic (voice/ data) within a given spectrum resource (erlangs/MHz/km² or Mbits/MHz/km²) for voice and data respectively. Technical efficiency indicators include the following:</p> <ol style="list-style-type: none"> i. Bandwidth efficiency (expressed in bits/ Hz) defined as the amount of information contained in a finite spectrum . ii. Reuse which dictates to what extent the spectrum can be simultaneously used at multiple locations (reuse factor of 1 is the highest). iii. Time; since applications do not typically use information on a continuous basis and can share resources by time multiplexing. (40 points) <p>b. For broadcast services technical efficiency is defined in terms of ability to address maximum potential audience (coverage) with the minimum amount of spectrum.</p> <p>c. Functional efficiency defined in terms of extent to which the use of spectrum meets the users needs (<i>evaluated by defined key performance indicators (KPI): the KPI for the particular band will be defined by the Authority and provided as part of the Invitation to Apply (ITA) as deemed necessary</i>). (30 points)</p> <p>d. Economic efficiency defines the monetary gain in terms of revenue, profit and value which the licensee derives from that portion of spectrum.(30 point)</p> <p style="text-align: center;">Total score for efficiencies =.....</p>