

APPENDIX A

When filling in the application form, ensure all pages are signed by all Authorised Representatives.

Extended Application Procedures In terms of Regulation 6(1)

(1) The application form is obtainable at any office and website (www.icasa.org.za) of the Authority. The form must be completed in full and submitted at any office of the Authority.

(2) These Extended Application Procedures are applicable to the assignment, ceding, transfer of control and transfer of all licences, unless otherwise agreed by the Authority.

(3) The Authority shall issue an invoice with a reference number for the prescribed application fee.

(4) The applicant must submit proof of payment to accompany the application.

(5) If the information to be supplied is not applicable, then the term 'not applicable' shall be written with a short explanation.

APPLICATION FORM FOR 700MHz, 800MHz, 2600MHz AND 3500MHz SPECTRUM AWARD PROCESS

(I) APPLICANT DETAILS

No.	Information Required
1	<p>Name, address, identification number telephone number and Email address of applicant:</p> <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; and• If the applicant is a foreigner a copy of the passport as well as proof of status shall be submitted to the Authority. <p>In the case of companies:</p> <p>(a) A copy of the Company's registration certificate; and</p>
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	<p>Extent of beneficial ownership of the applicant by historically-disadvantaged persons: Extent of beneficial ownership by women;</p> <p>Extent of beneficial ownership by the youth; and Extent of beneficial ownership by the disabled.</p>

(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 Licence be 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 (3) 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.

(IV) TECHNICAL INFORMATION (RADIO SYSTEM DESIGN)

No.	Information Required	
1	Full information of the technology to be implemented. This should be 3GPP technologies including LTE.	
2	Approach to network development and expansion. This should be based on capacity demand and coverage requirements.	
3	Description of all the relevant or important interfaces in the network. This depends on the technology. The interfaces are based on the 3GPP technology architecture.	
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 recognised international standards and specifications.	
7	Details of radio planning including methods to reserve frequency.	
7.1	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 polarisation (H/V)	Horizontally or vertically polarised
7.13	Transmit power (dbmW/W)	Transmitted power at the output of antenna
7.14	Receiver sensitivity threshold (dBmW)	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>Critical Efficiency Factors (a score of 80/100 is required to meet this requirement):</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> <ul style="list-style-type: none"> (i) Bandwidth efficiency (expressed in bits/ Hz) defined as the amount of information contained in a finite spectrum. Spectral efficiency varies across the country depending on the demand distribution. This also varies with time. (30 points) (ii) Re-use which dictates to what extent the spectrum can be simultaneously used at multiple locations (re-use factor of 1 is the highest): For 3G and LTE technologies re-used factor is 1 (by default). (5 points) (iii) Time - since applications do not typically use information on a continuous basis and can share resources by time multiplexing. This is an intrinsic feature of current mobile technologies. (5 points) <p>(Total = 40 points).</p> <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. Not applicable</p> <p>c. Functional efficiency defined in terms of the extent to which the use of spectrum meets the user's needs. Meeting the coverage and speed obligations: 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. Positive NPV: 30 points.</p>
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If additional space is required, please insert duplicate sheets

Authorised Representative 1:

Signature:

Printed name:

Authorised Representative 2:

Signature:

Printed name:

Authorised Representative 3:

Signature:

Printed name:

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If additional space is required, please insert duplicate sheets

Authorised Representative 1:

Signature: Printed name:

Authorised Representative 2:

Signature: Printed name:

Authorised Representative 3:

Signature: Printed name:

Authorised Representatives		
Name:	Position:	Signature:

Auction Representatives		
Name:	Position:	Signature:

Authorised Representative 1:

Signature: Printed name:

Authorised Representative 2:

Signature: Printed name:

Authorised Representative 3:

Signature: Printed name:

Lot Categories Applicant wishes to qualify to bid on in Auction Stage						
1 - 4	5 - 8	9	10 - 23	24	25 - 32	33

Please mark with a cross (X) all lot categories which the Applicant wishes to qualify to bid on in Auction Stage.

Authorised Representative 1:

Signature: Printed name:

Authorised Representative 2:

Signature: Printed name:

Authorised Representative 3:

Signature: Printed name: