



Independent Communications Authority of South Africa

350 Witch-Hazel Avenue, Eco Point Office Park
Eco Park, Centurion.
Private Bag X10, Highveld Park 0169
Telephone number: (012) 568 3000/1

APPOINTMENT OF A SERVICE PROVIDER TO ASSIST THE INDEPENDENT COMMUNICATIONS AUTHORITY OF SOUTH AFRICA WITH THE DEVELOPMENT OF THE REVIEW OF THE NATIONAL RADIO FREQUENCY PLAN FOR A PERIOD OF SIX MONTHS (6) MONTHS ON AN 80/20 PPPFA 2000, PREFERENTIAL REGULATION: 2017.

1. Background

- 2.1 The Authority First Strategic Outcome Oriented Goal (SOOG 1) is to facilitate Investment in and access to Broadband Infrastructure for Sustainable Socio-economic development and the Strategic Objective 1.1 is to increase access to Broadband Spectrum from 566 MHz to 958 MHz by 2020. To this end, Engineering and Technology Division has updated and revised the Radio Frequency Migration Plan 2013 and the International Mobile Telecommunications (IMT) Roadmap in line with the Annual Performance Plan (APP) for Fiscal year 2019/20.
- 2.2 The Authority developed the National Radio Frequency Plan 2018 (NRFP) in terms of section 34, of the Electronic Communications Act (Act 36 of 2005) (ECA).
- 2.3 The National Radio Frequency Plan was developed in line with the International Telecommunications Union's (ITU) Radio Regulations which is a treaty agreed to at the World Radio Conference (WRC) by all member states.
- 2.4 The International Telecommunications Conference (ITU) Radiocommunication Sector (ITU-R) holds World Radiocommunication Conference (WRC) every three to four years.
- 2.5 The WRC review and if necessary, revise the Radio Regulations.

- 2.6 The latest World Radiocommunication Conference 2019 (WRC-19), Sharm el-Sheikh, Egypt, 28 October to 22 November 2019;
- 2.7 The Independent Communications Authority of South Africa (the authority) has initiated a process to review and update the National Radio Frequency Plan (NRFP).
- 2.8. The review of the National Radio Frequency Plan is performed in line with the provisions of section 34 of the Electronic Communications Act, (Act 36 of 2005)
- 2.9 The last version of the National Radio Frequency Plan is contained in Government Gazette Number 41650 (Notice 266 of 2018) published 25 May 2018;
- 2.10 The review will ensure that the NRFP is up to date, consistent with the latest edition of the Southern African Development Community Frequency Allocation Plan (SADC FAP) and reflects the Final Acts of the latest World Radio Conference of 2019 (WRC 2019).
- 2.11 The review is to be carried out, taking into consideration the previous Frequency Migration Plan(s) (FMP) and programs which were aimed at addressing the frequency migrations identified during the evolution of the earlier national radio frequency plans starting with SABRE 1 of 1997 through to the requirements, subsequent to the ITU's World Radio Conferences including the latest final acts of the latest World Radio Conference of 2019 (WRC 2019).

3. Scope

- 3.1 The detailed scope is contained in Annexure A.

4. Specifications

- 4.1 The detailed specifications are contained in Annexure A.

3 Period of assignment

All work is to be carried out in accordance with the time schedule as agreed with the Authority for a period of not more than six (6) months from the date of finalisation of the contract with the service provider. The detailed are contained in

Annexure A.

4 Briefing Session

4.1 There will be **no** briefing session.

5 Evaluation of the Bids

5.1 The details are contained in Annexure A.

ANNEXURE A: Terms of Reference for the Review of the National Radio Frequency Plan (NRFP)

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Abbreviations

NRFP	National Radio Frequency Plan
FMP	Radio Frequency Spectrum Migration Plan
WRC19	World Radio Conference 2019
SADC FAP	Southern African Development Community Frequency Allocation Plan

1. Overview

- 1.1 The Council of the Independent Communications Authority of South Africa (hereafter referred to as "The Authority") initiated the review of the National Radio Frequency Plan with a key focus on the liberalisation of the Spectrum and defining it as a Commodity leading to the Market Approach System of Spectrum Management for the purpose the purpose of ensure Spectrum derives value for the public interest and to the benefit of its Citizenry.
- 1.2 Key elements to consider when developing long term National Spectrum Planning is the timeliness of spectrum releases to ensure that they are aligned with and reflective of trends in spectrum usage, demand and technology, maximizing the use of spectrum, and in turn, fostering innovation.
- 1.3 This innovation recognises the critical component spectrum plays in achieving the goals of 'broadband for all citizens' in SA.
- 1.4 The goal is to ensure that prioritized the spectrum, with a view to enable the achievement of the 2030 National Development Plan Milestones.
- 1.5 The development of the National Radio Frequency Plan has been prioritised and forms part of the ICASA five (5) year Strategic Plan approved by Parliament and it is critical that this milestone and deliverable that must be achieved.
- 1.6 Further, review is to enable the Authority to contribute to the goals of the National Infrastructure Plan, more specifically, the Strategic Integrated projects (SIPs) outcome 15 (SIP-15) on "Expanding access to communication technology".
- 1.7 The Authority has concluded that Spectrum is a critical component in achieving the goal of 'broadband for all citizens' in South Africa and therefore, the review of the National Radio Frequency Plan is to take a Medium Term (10 Years) to Long Term (20) years and beyond) outlook to ensure that the key objects of the Electronic Communications Act are realised.

2 Introduction

- 2.1 Chapter 5 of the Electronic Communications Act (“the ECA”) provides for ICASA (“the Authority”) to control, plan, administer and manage the use of the radio frequency spectrum. In preparing the National Radio Frequency Plan (NRFP), the Authority is obliged to take into consideration the International Telecommunications Union (ITU) allocations as adopted by South Africa.
- 2.2 The International Telecommunications Conference (ITU) Radiocommunication Sector (ITU-R) holds World Radiocommunication Conference (WRC) every three to four years.
- 2.3 The WRC review and if necessary, revise the Radio Regulations.
- 2.4 The latest World Radiocommunication Conference 2019 (WRC-19), Sharm el-Sheikh, Egypt, 28 October to 22 November 2019;
- 2.5 The Independent Communications Authority of South Africa (the authority) has initiated a process to review and update the National Radio Frequency Plan (NRFP).
- 2.6 The review of the National Radio Frequency Plan is performed in line with the provisions of section 34 of the Electronic Communications Act, (Act 36 of 2005)
- 2.7 The last version of the National Radio Frequency Plan is contained in Government Gazette Number 41650 (Notice 266 of 2018) published 25 May 2018;
- 2.8 The review will ensure that the NRFP is up to date, consistent with the latest edition of the Southern African Development Community Frequency Allocation Plan (SADC FAP) and reflects the Final Acts of the latest World Radio Conference of 2019 (WRC 2019).
- 2.9 The review is to be carried out, taking into consideration the previous Frequency Migration Plan(s) (FMP) and programs which were aimed at addressing the frequency migrations identified during the evolution of the earlier national radio frequency plans starting with SABRE 1 of 1997 through to the requirements, subsequent to the ITU’s World Radio Conferences including the latest final acts of the latest World Radio Conference of 2019 (WRC 2019).

3 Basis of the Programme.

- 3.1 The mandate is drawn from section 34 of the Electronic Communication Act (Act no. 36 of 2005) (the act), where it is stated that the Authority

must develop the national radio frequency plan, Section 34 (2) states that:

(2) The Minister must approve the national radio frequency plan developed by the Authority, which must set out the specific frequency bands designated for use by types of services, taking into account the radio frequency spectrum bands allocated to the security services

3.2 Section 34 (5) of the Act states that:

(5) The national radio frequency plan must be updated and amended when necessary in order to keep the plan current.

3.3 In addition, Section 34 (7) (a) states that

(7) In preparing the national radio frequency plan as contemplated in subsection (4), the Authority must—

(a) take into account the ITU's international spectrum allotments for radio frequency spectrum use, in so far as ITU allocations have been adopted or agreed upon by the Republic, and give due regard to the reports of experts in the field of spectrum or radio frequency planning and internationally accepted methods for preparing such plans;

3.4 The above mandates drawn from the Act, and the Final Acts of the WRC 19 form the basis of the motivation for the review of the National Radio Frequency Plan (NRFP).

4. Purpose

4.1 The purpose of this program is the review and update of the NRFP and to inform and consult with stakeholders in terms of sections 34 (8) and 34 (9) act and in turn, to forward the NRFP to the Minister for approval in terms of, sections 34(9) of the Electronic Communications Act 36 of 2005.

5. Objectives

5.1 The objectives of the program are:

5.1.1 To update the NRFP to reflect the Final Acts of WRC-19.

5.1.2 To ensure the NRFP is in harmonisation with the SADC Frequency Allocation Plan.

- 5.1.3 To review the existing NRFP to ensure that the spectrum allocations reflect the usage of the radio frequency spectrum up until the planned date of the next WRC in 2019 in the short term.
- 5.1.4 To ensure that the International footnotes included in the WRC 19 final Acts are properly reflected in the NRFP
- 5.1.5 To ensure that the national footnotes to the NRFP adequately explain the use of the radio frequency spectrum band where this is required.
- 5.1.6 To ensure that the NRFP, including the national footnotes, reflect any frequency migration that is necessary in the short term and as described in the FMP.

6 Scope

- 6.1 The Scope of the program is:
- 6.2 The update of the NRFP in coordination with the FMP
- 6.3 The FMP will inform the overall process; principles of implementation of frequency migration, identification of specific frequency bands where migration and re-farming will be applied and the migration of specific frequency bands through specific migration programmes.
- 6.4 Ensuring that due process is followed in the review of the NRFP and is in support of the broader spectrum management objectives such as, inter alia, ensuring the efficient and effective use of the radio frequency spectrum.
- 6.5 Ensuring that the NRFP is the basis upon which the allocation of further spectrum for the purposes of broadband wireless access for the benefit all South Africans is carried out.

7 Statement of Work.

- 7.1 There are strong strategic reasons for undertaking the programme at this stage:
- 7.2 It is necessary to identify any changes in radio frequency spectrum allocation and consequent frequency migration that is required as a result of the recent World Radio Conference (WRC19) and to ensure that changes in allocation stemming from the earlier World Radio

Conferences (WRC03, WRC01) and preceding conferences have been properly reflected in the NRFP.

- 7.3 It is necessary to identify any change in radio frequency spectrum allocation that is required to bring the NRFP in line with the SADC Frequency Allocation Plan to achieve regional harmonisation and the economies of scale benefits associated therewith.
- 7.4 The review of the NRFP is carried out in tandem with the FMP that addresses the process of reallocating spectrum and migration stemming from WRC 19 together with 'tidying' up the spectrum by migrating any users still occupying spectrum allocated for another purpose. The FMP also establishes the current status of radio frequency band planning (including frequency migration plans) that have taken place in the past and consolidates these:
 - 7.4.1 The Revision of South African Frequency Allocation Plans (Band Plans) and Migration Strategies – Notice 759 of 1997 – which covered 20MHz to 3 GHz (SABRE-1) and 3.4GHz to 3.6 GHz.
 - 7.4.2 Radio frequency spectrum band plan covering the range 3 GHz to 70 GHz – (SABRE-2) Notice 1920 of 2001
 - 7.4.3 The South African Table of Frequency Allocations (SATFA) – Notice 1442 of 2004.
 - 7.4.4 The National Radio Frequency Plan – Notice 727 of 2010.
 - 7.4.5 The National Radio Frequency Plan Government Gazette Number 36366 (Notice 354 of 2013).
 - 7.4.6 The National Radio Frequency Plan published in Government Gazette Number 41650 (Notice 266 of 2018).
- 7.5 The target is to ensure that as of March 2021, taking into consideration the latest edition of the ITU Radio Regulations and in time for the planned date of the next WRC, the use of the radio frequency spectrum is up to date and it will be possible to fully implement the Band Plans that will have been developed.
- 7.6 The draft NRFP will be released for comment during the third quarter of the 2020/2021 financial year.

8 Principles

- 8.1 Certain key principles need to be stressed.

8.1.1 The NRFP must be consistent with the ITU Radio Regulations as updated by the latest World Radio Conference WRC, and with the harmonised SADC Frequency Allocation Plan.

8.1.2 Any allocation of radio frequency spectrum and in turn, the related allotment or assignment that is not in accordance with the NRFP must be migrated and this is addressed in the FMP.

9 Program Milestones

9.1 It is envisaged that a draft update of the NRFP will be prepared for public consultation before the end of the third quarter of 2020/2021.

9.2 To avoid repetition, most of the changes to the NRFP will be addressed in the discussion document to the FMP to be developed following the final NRFP 2021.

10 Program Timelines

10.1 It is envisaged that the first draft will be released for public consultation in the third quarter.

10.2 A time period of thirty days is scheduled for the receiving of comments.

10.3 Incorporation of the reviewed comments received as appropriate by end fourth quarter.

10.4 Report on the review of the National Radio Frequency Plan document in fourth quarter.

7. Period of assignment

Six (6) Months (i.e. from Contract signature date = X)

No.	Item	Due Date (Calendar days)
1.	Commencement of work.	X
2.	Kick-off Meeting.	X + 5
3.	Inception Meeting	X +30

4.	Report on analysis of the latest Radio Regulations edition 2016, the Final of the World Radio Communications Conference edition 2020, The Electronic Communication Act, (ECA), The South African Table of Allocations as of 1997 where such services are not catered for in latest version of the National Radio Frequency Plan, Benchmark Study on International Approach to long terms Spectrum Planning and Spectrum outlook for the next ten (10) to twenty Years.. In each case, providing relevant Regional and International best practices including the socio-economic benefits, the value to society, studies, maturity of the ecosystem, scenario plans, deployment costs, proposed timelines for clearing the frequency bands, co-existence scenarios.	X + 60
5.	Development of a consultation document for the long-term Spectrum outlook spanning between ten (10) to twenty (20) years including the review of the latest version of the National Radio Frequency Plan incorporating coordination requirement with neighbouring Countries when necessary and required as appropriate. The development of this consultation document is to involve an analysis of Regulatory, Technical and Economic factors. In each case, providing relevant Regional and International best practices including the socio-economic benefits, the value to society, studies, maturity of the ecosystem, scenario plans, deployment costs, proposed timelines for clearing the frequency bands, co-existence scenarios.	X + 90.
6.	The draft report with preliminary recommendations on the long-term view for spectrum outlook for the next ten (10) to twenty (20) years with the cost-benefit analysis scenario ranking.	X + 120

7.	development and or customisation of appropriate tools as necessary for the accessibility of an inter active South African Table of Allocation through the (ICASA) website.	X + 150
8.	development of the final documents, taking into consideration representations made by stakeholders through a public consultation process is to be undertaken for one month	X + 180
9.	Submission of final reports	X + 210

12. Evaluation of the Bids

- 12.1 The bidder's proposed personnel resource(s) should have degrees or equivalent in Engineering, Telecommunications, and Economics, Commerce or any other equivalent degree relevant to this assignment, from a recognized Institution. The bidder's proposed resource should have Engineering and ICT knowledge and demonstrate practical experience and understanding of the ICT technology with a strategic focus on developments around frequency migration and or re-farming processes and planning, preferably at National and International Level.
- 12.2 The bidder's proposed resource should have the technical knowledge and demonstrate practical experience in frequency migration planning processes and the development of strategies on the implementation of migration of services and an understanding of the rollout of new technologies as it relates to spectrum. Scoring for the proposed resource will be based on the relevance of experience performed to the requirement.
- 12.3 The bidder, including its key personnel resource, should have at least ten (10) years' experience in developing frequency Plans and or planning related to the whole band plan with an in-site on new technologies and gaining consensus of the participants, preparing appropriate documentation to the satisfaction of the project team. "Key personnel resource" means the person(s) that will be responsible for managing and overseeing the entire work.

- 12.4 The bidder should have the necessary tools and appropriate resources to perform frequency planning processes.
- 12.5 The bidder should note that experience claimed, but not substantiated with specific work assignments will be awarded minimum points.
- 12.6 The bidder's proposals should be submitted with all required information containing technical information as well as price information.
- 12.7 The bidder must provide a work breakdown plan with details on how they intend dealing with the project.
- 12.8 The proposal should include, amongst others, the following:
 - 12.8.1 A list of credible and contactable references
 - 12.8.2 A proposed plan of action to ensure the achievements of the assignments described in section 4 above;
 - 12.8.3 A comprehensive skill transfer plan;
 - 12.8.4 Work breakdown structure; and
 - 12.8.5 And any other relevant documentation deemed necessary as appropriate.
- 12.9** The received bids will be evaluated on the 80/20 procurement principle as per the Supply Chain Management Policy and the relevant Treasury Regulations. The bid will also be evaluated for functionality as per the functionality table below.
- 12.10 The bidder will be evaluated on (a) submission of the required documents; (b) functionality and (c) price/BB-BEE. Only bidders who meet the cut-off score of 70 out of 100 points for functionality will be considered further for price evaluation.
- 12.11 For Functionality, please refer to table 1:

Table 1: Content Bid Functionality:

No	Category (Cut-off 70)	Points
A.	Functionality: Pre-qualification criteria (cut-off 70%)	
	Functional Proposal	
Proposed Solution/ Methodology	<p>1. Proposed methodology to be used to undertake the development of the Radio Frequency Plan, taking into consideration the following;</p> <p>1.1 Long Term Spectrum Outlook and International Benchmark Studies studies covering at least four (4) Countries which collectively representing the three (3) Regions of the International Telecommunication Union (ITU).</p> <p>1.2 An analysis of the Regulatory, Technical and Economic factors in each case, providing relevant Regional and International best practices, including the socio-economic benefit and studies,</p> <p>1.3 Scenario plans in respect of the maturity of the ecosystems and systems deployments.</p> <p>1.4 Proposed timelines for clearing the frequency bands and co-existence scenarios, based on analytical processes and as well as simulations using appropriate tools and techniques to achieve the desired outcome in performing the review and long term planning for the frequency bands as mandated by the previous WRC (s) to yield resultant cost-effective solution for the long term spectrum outlook for South Africa.</p>	30

	<p>1.5 Scenario Plans, Deployment costs estimates, Proposal on timelines for clearing the frequency bands, co-existence scenarios, based on analytical processes and as well the necessary tools required to ensure that the South African Table of Allocation is made available online on an interactive basis with recommend the preferred option</p> <p>Evaluation criteria:</p> <p>1.6 Provided methodology on Long Term Spectrum Outlook and = 1</p> <p>1.7 Provided methodology on Long Term Spectrum Outlook, an analysis of the Regulatory, Technical and Economic factors in each case, providing relevant Regional and International best practices, including the socio-economic benefit and studies, = 2</p> <p>1.8 Provided methodology on Long Term Spectrum Outlook, an analysis of the Regulatory, Technical and Economic factors in each case, providing relevant Regional and International best practices, including the socio-economic benefit and studies, Scenario plans in respect of the maturity of the ecosystems and systems deployments = 3</p> <p>1.9 Provided methodology on Long Term Spectrum Outlook, , an analysis of the Regulatory, Technical and Economic factors in each case, providing relevant Regional and International best practices, including the socio-economic</p>	
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	<p>benefit and studies, Scenario plans in respect of the maturity of the ecosystems and systems deployments, Proposed timelines for clearing the frequency bands and co-existence scenarios, based on analytical processes and as well as simulations using appropriate tools and techniques to achieve the desired outcome in performing the review and long term planning for the frequency bands as mandated by the previous WRC (s) to yield resultant cost-effective solution for the long term spectrum outlook for South Africa =4</p> <p>1.10 Provided methodology on Long Term Spectrum Outlook, , an analysis of the Regulatory, Technical and Economic factors in each case, providing relevant Regional and International best practices, including the socio-economic benefit and studies, Scenario plans in respect of the maturity of the ecosystems and systems deployments, Proposed timelines for clearing the frequency bands and co-existence scenarios, based on analytical processes and as well as simulations using appropriate tools and techniques to achieve the desired outcome in performing the review and long term planning for the frequency bands as mandated by the previous WRC (s) to yield resultant cost-effective solution for the long term spectrum outlook for South Africa, Scenario Plans, Deployment costs</p>	
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	<p>estimates, Proposal on timelines for clearing the frequency bands, co-existence scenarios, based on analytical processes and as well the necessary tools required to ensure that the South African Table of Allocation is made available online on an interactive basis with recommend the preferred option =5</p>	
<p>Project Implementation</p>	<p>2. Provide an implementation plan that is to lead to the final implementation report on the long-term scenario plan for the National Radio Frequency Plan to be completed in accordance with the timeline in section dealing period of assignment taking into the following key issues;</p> <p>2.1 The latest ITU-R reports, recommendations and resolutions on IMT systems and beyond;</p> <p>2.2 The latest developments and proposals within the ITU System on future Spectrum Requirements;</p> <p>2.3 The socio-economic cost benefits associated with the long-term benefits for the Spectrum outlook;</p> <p>2.4 Any other relevant international technical and regulatory aspects deemed necessary and appropriate; and</p> <p>2.5 Any relevant policy and or regulation geared towards the achievement of universal service in terms of access to broadband services and connecting the unconnected,</p> <p>Evaluation criteria:</p>	<p>25</p>

	<p>2.6 Provide an implementation plan that is to lead to the final implementation report on the long-term scenario plan for the National Radio Frequency Plan to be completed in accordance with the timeline in section dealing period of assignment taking into consideration the latest ITU-R reports, recommendations and resolutions on IMT systems and beyond. = 1</p> <p>2.7 Provide an implementation plan that is to lead to the final implementation report on the long-term scenario plan for the National Radio Frequency Plan to be completed in accordance with the timeline in section dealing period of assignment taking into consideration the latest ITU-R reports, recommendations and resolutions on IMT systems and beyond, the latest developments and proposals within the ITU System on future Spectrum Requirements = 2</p> <p>2.8 Provide an implementation plan that is to lead to the final implementation report on the long-term scenario plan for the National Radio Frequency Plan to be completed in accordance with the timeline in section dealing period of assignment taking into consideration the latest ITU-R reports, recommendations and resolutions on IMT systems and beyond, the latest developments and proposals within the ITU System on future Spectrum Requirements, the socio-economic cost benefits associated with the long-term benefits for the Spectrum outlook = 3</p>	
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	<p>2.9 Provide an implementation plan that is to lead to the final implementation report on the long-term scenario plan for the National Radio Frequency Plan to be completed in accordance with the timeline in section dealing period of assignment taking into consideration the latest ITU-R reports, recommendations and resolutions on IMT systems and beyond, the latest developments and proposals within the ITU System on future Spectrum Requirements, the socio-economic cost benefits associated with the long-term benefits for the Spectrum outlook and any other relevant international technical and regulatory aspects deemed necessary and appropriate; = 4</p> <p>2.10 Provide an implementation plan that is to lead to the final implementation report on the long-term scenario plan for the National Radio Frequency Plan to be completed in accordance with the timeline in section dealing period of assignment taking into consideration the latest ITU-R reports, recommendations and resolutions on IMT systems and beyond, the latest developments and proposals within the ITU System on future Spectrum Requirements, the socio-economic cost benefits associated with the long-term benefits for the Spectrum outlook and any other relevant international technical and regulatory aspects deemed necessary and appropriate, Any relevant policy and or regulation geared towards the</p>	
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	achievement of universal service in terms of access to broadband services and connecting the unconnected,=5	
Qualification and Experience of Employed Personnel.	<p>3 The bidder's proposed personnel resource(s) should have degrees or equivalent any other equivalent degree relevant to this assignment, from a recognized Institution and ICT knowledge and demonstrate practical experience and understanding of the Information and Communication Technologies (ICT) with a strategic focus on developments around long term Spectrum Scenario planning for the processes and Spectrum Planning, preferably at national, Regional and International Level with ten (10) years in;</p> <p>3.1 Engineering 3.2 Economics, 3.3 Law 3.4 Telecommunications,</p> <p>Evaluation criteria:</p> <p>3.5 Key project personnel resource (s) has have degrees or equivalent relevant to this assignment, from a recognized Institution and demonstrate knowledge with practical experience and understanding of the Information and Communication Technologies (ICT) with a strategic focus on developments around long term Spectrum Scenario planning for the processes and Spectrum Planning, preferably at national, Regional and</p>	25

International Level and has Ten (10) years in Engineering; = **1**

3.6 Key project personnel resource (s) has have degrees or equivalent relevant to this assignment, from a recognized Institution and demonstrate knowledge with practical experience and understanding of the Information and Communication Technologies (ICT) with a strategic focus on developments around long term Spectrum Scenario planning for the processes and Spectrum Planning, preferably at national, Regional and International Level and has Ten (10) years in Engineering and Economics; = **2**

3.7 Key project personnel resource (s) has have degrees or equivalent relevant to this assignment, from a recognized Institution and demonstrate knowledge with practical experience and understanding of the Information and Communication Technologies (ICT) with a strategic focus on developments around long term Spectrum Scenario planning for the processes and Spectrum Planning, preferably at national, Regional and International Level and has Ten (10) years in Engineering, Economics and Law; = **3**

3.8 Key project personnel resource (s) has have degrees or equivalent relevant to this assignment, from a recognized Institution and demonstrate knowledge with practical experience and understanding of the Information and Communication Technologies (ICT) with a strategic focus

	<p>on developments around long term Spectrum Scenario planning for the processes and Spectrum Planning, preferably at national, Regional and International Level and has Ten (10) years in Engineering, Economics, Law and Telecommunications; =4</p> <p>3.9 Key project personnel resource (s) has have degrees or equivalent relevant to this assignment, from a recognized Institution and demonstrate knowledge with practical experience and understanding of the Information and Communication Technologies (ICT) with a strategic focus on developments around long term Spectrum Scenario planning for the processes and Spectrum Planning, preferably at national, Regional and International Level and more than Ten (10) years in Engineering, Economics, Law and Telecommunication =5</p>	
<p>Experience</p>	<p>3 The bidder should have at least ten (10) years' experience in developing Radio Frequency Spectrum Plans, long term frequency plans, and has demonstrated practical experience in Scenario planning processes and the development of strategies on the planning for Radiocommunications services and an understanding of the rollout of new technologies as it relates to spectrum with insight on new emerging technologies and standards having participated in these developments and be able to prepare appropriate documentation and reports to the satisfaction of the project team. Indicate</p>	<p>20</p>

	<p>successfully completed work/projects of similar nature accompanied by at least five (5) contactable references, including testimonials/reference letters.</p> <p>Evaluation criteria:</p> <p>4.1 Bidder has no experience in successfully delivering a project of similar nature = 1</p> <p>4.2 Bidder has less than ten (10) years' experience in successfully delivering a project of similar nature and/or has submitted less than five (5) contactable references = 2</p> <p>4.3 The bidder has ten (10) to fourteen (14) years' experience in successfully delivering a project of similar nature and has provided at least five (5) contactable references. = 3</p> <p>4.4 Bidder has fifteen (15) to nineteen (19) years' experience in successfully delivering a project of similar nature and provided five (5) contactable references. =4</p> <p>4.5 Bidder has more than twenty years (20) years' experience in successfully delivering a project of similar nature and has provided at least six (6) contactable references. =5</p>	
<p>TOTAL FOR FUNCTIONALITY PRE-QUALIFICATION CRITERIA</p>		<p>100</p>